BARNETT, John Davis

MG 30 B 86

PHOTOS

VOLUME: 1

1. Columbiaville Bridge, Stockport, Columbia County, N.Y. J. Reid.
2. Harlem Bridge, Fourth Ave., N.Y. J. Reid.
3. Iron R'Way Bridge, Susquehana River, Erie R'Way. J. Reid.
4. Little Falls Bridge. J. Reid.
5. Louisville Iron and Bridge Co., Licking River Bridge, Short Line R'Way.
6. Columbiaville Bridge, Stockport, N.Y.

VOLUME: 4

1. Royal Albert Bridge, Saltash, (usually called Saltash Bridge).
2. River Tamar, Cornwall R'Way. 2 Photos.

VOLUME: 5

1. Bridge at Milton Lockhart.

VOLUME: 7

1. Cantilever Bridge, Fraser River, near Cisco, British Columbia, C.P.R.

VOLUME: 27

1. Steam Hammer. John Bertram and Sons, Dundas, Ontario [1889].

2. Steam Hammer. J. Barrans and Co., Leeds.

VOLUME: 48

1. Ansicht vom Badischen Schwarzwald. C. Clare.

VOLUME: 50

1. [Screen of Altar at Cathedral, Alte-Breysach, 1889]. G. Th. Hase & John, Freiburg.

VOLUME: 52

1. Kellogg Iron Works, Gasometer Under Construction. Bliss Bros., Buffalo.

VOLUME: 88

1. Life Boat with Crew of 11. Boat was Gift of Commercial Travellers of England to National Life Boak Institution. Served on Cornwall Coast, Destroyed in Storm. Replaced by Subscription by Employees of Mechanical Dept., Great Western R'Way.

VOLUME: 93

1. Pompei Excavations. Photograph of Painting.

VOLUME: 98

1. Pneumatic Sand Sifter.

VOLUME: 108

1. Pump, Improved Waterworks, G.F. Blake. Boston, New York, Chicago.
2. Pump, Improved Fire, G.F. Blake, Manufacturing Co.
3. Pump, George F. Blake.
4. Pump, George F. Blake.
5. Pump, George F. Blake.
6. Pump, George F. Blake.

(Vol. 108 cont'd)

7. "Differential Expansive Steam Pump", Davcy's Patent.

8. "Compound Differential Expansive Pumping Engine." Davey's Patent.

VOLUME: 109

1. Stratford Filtration Plan. Allan.

2. 600,000 Gal. Tank, Berlin, Ont. L.J. Mensch, Chicago, General Contractor.
Annotated Dimensions.

VOLUME: 113

1. Hermit [Mt.] Range from Glacier Hotel on C.P.R. Annotated. "Showing Snow Sheds at Right Hand Centre."

VOLUME: 118

1. Gould Pilot Coupler.

VOLUME: 119

1. Palace Car Lamp. No. 18 for Oil or Candles. Annotated.

2. Palace Car Lamp No. 20.

VOLUME: 123

1. E. Mahar, Boston. Decorative Mouldings, No. 6.
2. E. Mahar, Boston. Decorative Mouldings, No. 7
3. E. Mahar, Boston. Decorative Mouldings, No. 8.

VOLUME: 124

1. Wood's Extensible Air Car Step. Patent 1889, 1890.
2. W.G. von Staden, Toronto. Improved Method of Car Framing.

VOLUME: 125

1. Berlin Mills Co. [Name on Flat Car]. [Probably Intended to Illustrate Type of Brake].

VOLUME: 133

1. National Electric Headlight Co., Indianapolis. Shows Track Illumination. 1889.

VOLUME: 138

1. Aveling and Porter, Rochester. Steam roller for Roads. R.E.H. Gardner Buckner, General Agent, Toronto.

VOLUME: 141

1. Congdon's Self Lubricating Crosshead. Patent 1869. Photo of Drawing.

VOLUME: 155

1. Passenger Locomotive - Great Western Railway.
2. Passenger Locomotive - Great Western Railway.
3. Passenger Locomotive - Great Western Railway.
4. Passenger Locomotive - Great Western Railway.

VOLUME: 156

1. Tank Locomotive, British Railway.
2. Tank Locomotive, British Railway.
3. Tank Locomotive, British Railway.

VOLUME: 158

1. Passenger Locomotive, U.S.
2. Passenger Locomotive, U.S.

VOLUME: 159

1. Rogers Locomotive and Machine Works, Paterson, New Jersey. Freight "Loco" Engine, 1885. Annotated.

2. Lehigh Valley R.R. Freight "Loco" Engine.

VOLUME: 166

1. Baldwin Locomotive Works, Burnham, Parry, Williams & Co., Philadelphia. Gurjao Locomotive. 1886. Annotated.

2. Schenectady Locomotive Works, Dummy Engine. "City of New Orleans."

VOLUME: 170

1. Slide Valve.

2. Slide Valve.

3. Unidentified.

VOLUME: 191

1. E. and A. Betts, Wilmington, Del. 40 Inch Radial Drill.

2. Niles Tool Works, Hamilton, Ohio. 7 ft. Boring and Turning Mill. Patent 1871.

3. D. New & Co., Engineers Tool Makers, Iron and Brass Founders, Nottingham. Drill, Belt-Driven.

(Vol. 191 cont'd)

4. Sharp Stenart & Co., Atlas Works, Manchester. Vertical Drilling Machine.

5. Wm. [Sellers & Co.(?)], Philadelphia. Base of Boring and Turning Mill.

6. Boring and Turning Mill for R'Way Car Wheels. Unknown Maker.

7. Boring and Turning Mill. Unknown Maker.

8. Drill.

9. Belt-Driven Drill. Unknown Maker.

10. Compressed Air Drill.

11. 2 Men Using Compressed Air Drill.

VOLUME: 194

1. Hamilton Tool Co. Wheel Tress.

VOLUME: 199

1. McLeod's Automatic R.R. Crossing.

2. Signal and Alarm.

VOLUME: 231

1. C.P.R. Station and Docks, Vancouver. Notman & Son.

VOLUME: 235

1. Train Wreck.

VOLUME: 236

1. Train Wreck.

VOLUME: 250

1. Baldwins Compound "Loco", Vaudains Patent.
2. Baldwins Compound "Loco", Alternative Arrangement of Cylinders.

VOLUME: 258

1. "Sunlight and Shadow". Cabin in Forest, 2 Women on Path.

VOLUME: 265

1. Alston & Weredale G.M. Co. Solomon & Bardwell.

VOLUME: 266

1. Offices of L. and N. R'Way. Louisville, Ky. Wybrant.

VOLUME: 300

1. "The Orphan". F. Compt Calix. Photo of Painting. Schumacher Bros. Fine Art Store, Portland, Me.

2. Portrait of Unidentified Woman.

VOLUME: 309

1. "Hay Car 330". P. & O. R'Way.

VOLUME: 322

1. "Permanent Photograph." Unidentified Woman.

2. Portrait of Mr. Carey Lea.

VOLUME: 323

1. "Contact Print on Anthony's Reliable Bromide Paper." [1888].

2. Portrait of Unidentified Female.

VOLUME: 324

1. Portrait, Female [M. von Zelewski(?)] Philip Graff, Berlin.

(Vol. 324 cont'd)

2. Water Over a Dam.
3. 8 Men and a Dog in front of Log Cabin.
4. Portrait: Unidentified Male.
5. Portrait: Unidentified Male.
6. Portrait: Unidentified Female.
7. Negative-Man Working in Log Jam.
8. Negative-Group on Proch.
9. Negative-Unidentified River.
10. Negative-Group in Front of Lumber Shanty.
11. Negative-Unidentified River.
12. Negative-Log Huts.
13. Negative-Log Huts.
14. Negative-Hen.
15. Negative-Log Huts.
16. Negative-Group in Front of Log Hut.
17. Negative-Unidentified Frozen Lake.
18. Negative-Unidentified Man and Canoe.
19. Negative-Unidentified Man and Canoe.
20. Negative-Four Man on frozen Lake.
21. Negative-Unidentified Group.
22. Negative-Unidentified Log Hut.

VOLUME: 333

1. Ice Cave in the Great Glacier. 2 Men, Notman & Son Selkirk Range, B.C. C.P.R.
2. Waterfall. 2 Women and A Man in Foreground.
3. Waterfall.
4. Devil's Hole. Jersey, Channel Islands. E. Baudoux.

VOLUME: 335

1. Waterfall.

VOLUME: 347

1. Wheel Lathe. Maker Unknown.
2. Wheel Lathe. Fred B. Miles Machine.
3. [John Bertram & Son (?)] Dundas, Ont., Wheel Lathe. [1889].
4. Canada Tool Works, McKechnie and Bertram, Dundas, Ontario Wheel Lathe. [1889].
5. Hamilton Tool Co., Hamilton, Ontario.
6. D. New and Co., Nottingham. Lathe.
7. Lathe. Maker Unknown.
8. Lathe. Maker Unknown.

VOLUME: 348

1. Bement & Son, Philadelphia. Shaping Machine.

2. L.B. Flanders Machine Works, Philadelphia. Patent Portable Valve Seat Rotary Planning Machine.

3. Fred Miles Machine Tool Works, Philadelphia, Crank Planer.

4. D. New & Co., Nottingham, Engineers Tool Makers, Iron and Brass Founders. Planer.

VOLUME: 349

1. "Second Size Milling Machine." 1600 Lbs. Maker Unknown. Description Given.

2. "Third Size Milling Machine." 1100 lbs. Maker Unknown. Description Given.

3. "Fourth Size Standard Milling Machine. Showing Iron Rod Through Hollow Centre." Maker Unknown. Description Given.

4. "Universal Head." Maker Unknown. Description Given.

5. "Milling Machine Vises." Maker Unknown. Description Given.

6. "Horizontal Milling Machine." Maker Unknown. Description Given.

7. "Index Milling Machine." Maker Unknown. Description Given.

8. Niles Tool Works, Hamilton, Ohio. Milling Machine.

9. John Bertam and Sons, Dundas, Ontario. Milling Machine. [1889].

10. Ferris and Miles, Philadelphia, Punch Press.

11. Horizontal Milling Machine. Maker Unknown.

VOLUME: 350

1. Nut and Bolt Making Machine. Buffalo Bolt Making Machine. Buffalo Bolt and Nut Works.

VOLUME: 354

1. Tombstone in Stratford Cemetery. Joseph Harry Howard Phelps, son of Joseph and Mary Phelps. Died June 15, 1889.

VOLUME: 365

1. London International Exhibition 1862.

VOLUME: 370

1. Locomotive "DeWitt Clinton" Built 1832. At New York Central Exhibit, Chicago World's Fair. 1893. Clarence J. Root.

VOLUME: 385

1. Lighthouse Near Narrows, Vancouver, B.C.

VOLUME: 392

1. Horizontal Engine.

(Vol. 392 cont'd)

2. Horizontal Engine.

3. Horizontal Engine.

VOLUME: 397

1. Ruins of Holyrood Chapel.

VOLUME: 406

1. Photo of Large Country Home. "Milton Lockhart".

2. Photo of Large Country Home. "Milton Lockhart".

VOLUME: 421

1. Coloured Photo of Roses.

2. Coloured Photo of Roses.

VOLUME: 427

1. Unidentified Man.

VOLUME: 454

1. Interior of Unidentified Church.
2. Close up Photo of Organ in Ph. 1.

VOLUME: 478

1. Princess Louise. Le Jeune

VOLUME: 498

1. Shakespeare Memorial. Tablet.

VOLUME: 500

1. Portrait: George W. Childs. Donor of Shakespearean Fountain at Stratford. Suddards & Fennemore, Philadelphia.

VOLUME: 558

BARNETT FAMILY PHOTOS

1. John Davis Barnett. Maitland, Stratford, Ontario.
2. John davis Barnett. 1903. Annotated. Clarence Woodburn, Kent.
3. John Davis Barnett. 1903. Annotated.
4. John Davis Barnett and Unidentified Man.

(Vol. 558 cont'd)

5. John Davis Barnett and 2 Unidentified Men.

6. Mother Mary Barnett and 5 Sons(?). John Davis Barnett (Centre Back)? T.E. (Tom) Barnett (Lower Right)?

7. T.E. (Tom) Barnett. (Brother of J.D.B.). Edwin Grant.

8. T.E. (Tom) Barnett. Vancouver Photographic Co.

9. George Barnett. (Father of J.D.B.) Brown, Barnes & Bell.

10. George Barnett. Hemmins & Howell

11. George Barnett.

12. Mary Barnett? (Mother of J.D.B.).

13. Barnett Family Photo? 1893. George Barnett and J.D.B. in Back Row.

14. Tomb Stone of Mary Barnett. Hemmins & Howell.

15. George Barnett. (Father of J.D.B.) Thos. H. Brophey.

16. Fred Barnett (Brother of J.D.B.)? Maitland.

17. Fred Barnett, with Wife & 3 Daughters. Maitland.

18. Wife of Fred Barnett? Cusick.

19. Helen Barnett, (Fred's Daughter, Nice of J.D.B.). Doerr.

20. Helen Barnett. Johnson.

21. Helen Barnett (1899). Butler.

22. Helen Barnett at 4 months.

23. Daughter of Fred Barnett. Maitland.

24. Daughter of Fred Barnett. Maitland.

25. Daughter of Fred Barnett (3 Views). Veasey.

26. Daughter of Fred Barnett. Veasey.

(Vol. 558 cont'd)

27. Daughter of Fred Barnett. Standiford.
28. John O'Connor, Bookdealer, London, Ontario.
29. Kitty Gay, Swindon. H. Hemmins.
30. Kittie Gay, Swindon. 1881. Mrs. Williams.
31. Wm. Workman, Stratford. W.I. Becker & Co.
32. ? Wallis, 1896. Walford.
33. George Barnett Smith, (Nephew of J.D.B., 1900). Notman.
34. George Barnett Smith, 1898. Notman.
35. Trot Smith & Alice Beatty (Niece, of J.D.B.) Maitland.
36. Harry (Cousin of J.D.B.) and Maggie Woodburn. Geo. Glanville.
37. Rev. George Brown.
38. Robert Larmour's Son. John Owen.
39. Rev. Gundy. J.G. Parks.
40. A. Stewart, Son of Polly Smith, Swindon. H. Webber.
41. Lizzie Scholz, 1881.
42. Harry Chiltern's House, 1 Richmond Road, Rear.
43. Bruce Cash. Vancouver Photographic Co.
44. D. MacDonald. Doerr.
45. Fred M. Leamonth. 1894.
46. Trottie, (Niece of J.D.B.), Maxwell Street, Swindon.
47. "Nora Macklin in Her Mother's Arms." 3 Women and an Infant.
48. Nora Macklin, Berlin. Green & Co.
49. Parents & 3 Children. James Watson & Co.

(Vol. 558 cont'd)

50. Parents & 2 Children. Barnard.

51. 2 Children. Fripp.

52. 1 Child. Gow

53. Parents, 3 Daughters, 2 Sons. Guggenheim.

54. 3 Daughters. Guggenheim.

55. Unidentified Male.

56. Unidentified Female. J. Clarence Hood.

57. Unidentified Female. Protheroe Simmons.

58. Unidentified Female. Protheroe Simmons.

59. Unidentified Child with 3 Women. Shannon.

60. Unidentified Child in Winter Clothing. Shannon.

61. Unidentified Young Woman with Old Man. Becker & Co.

62. Unidentified Young Woman with Young Man. Becker & Co.

63. "Beaty" Addressed to "Uncle John" Niece of J.D.B.?

64. John Davis Barnett, with 4 Men and 1 Woman. John Owen.

65. Cameos of J.D.B. (Second from right, Middle Row) and 9 Other. Field.

66. Ethel Ward and Bessie Young, Toronto. J. Fraser Bryce. Related Correspondence - Vol. 429 File #5.

67. 1 Female

68. 2 Males, 1 Felmale, 2 Children.

69. 1 Male, 2 Females

70. Unidentified Female. Ingersoll, Ontario. Olivert Wright.

71. Unidentified Female. St. Cathrines, Ontario. Poole.

(Vol. 558 cont'd)

72. Unidentified Female. Washington, D.D. Rice.

73. Unidentified Male. Midland. P.Q. Stokes.

74. Unidentified Male. Coubourg, Ont. G. Sawes.

75. Unidentified Male. Peterboro. Jas Little.

76. Unidentified Male. Hamilton. D.D. Wright & Son.

77. Unidentified Male. Port Huron, Mich. J.M. White.

78. Unidentified Male. Chicago. Robinson & Roe.

79. Unidentified Female. Ottawa. Topley.

80. Unidentified Female. London. Frank Cooper.

81. Unidentified Female. London, Ont. Frank. Cooper.

82. Unidentified Female. London, Ont. Edy Bros.

83. Unidentified Female. Montreal. J.G. Parks.

84. Unidentified Male. Montreal. J.G. Parks.

85. Unidentified Male. Montreal. J.G. Parks.

86. Unidentified Male. Montreal. J.G. Parks.

87. Unidentified Female. Montreal. Notman & Sandham.

88. Unidentified Female. Montreal. Notman & Sandham.

89. Unidentified Male. Montreal. Notman & Sandham.

90. Unidentified Male. Montreal. Notman & Son.

91. Unidentified Male. Montreal. Notman & Son.

92. Unidentified Male. Montreal. B.F. Baltzly.

93. Unidentified Female. Montreal. Inglis.

(Vol. 558 cont'd)

94. Unidentified Female. Montreal. Field.

95. Unidentified Female. Montreal. Field.

96. Unidentified Male. Montreal. Martin.

97. Unidentified Female. Montreal. Rice.

98. Unidentified Family. Parents, 2 Daughters, 1 Son. Montreal. G.C. Arless

99. Unidentified Female & Child. New Swindon. Z. Dodson.

100. Unidentified Male with Harp. Swindon. Great Western Photographic Co.

101. Unidentified Male. Swindon. H. Hemmins.

102. Unidentified Male. Swindon. Alex Betts.

103. Unidentified Female. Swindon. Alex Betts.

104. 6 Unidentified Females. Swindon. Hemmins & Howell.

105. Unidentified Male. Bristol. A. & G. Taylor.

106. Unidentified Male. Montreal. James Inglis.

107. Unidentified Male. Toronto. G. Mc Conkey.

108. Unidentified Female. Toronto. Dixon.

109. Unidentified Female. Tin Type. Manchester & London J. Jewell.

110. Unidentified Female. Tin Type. Manchester & London. J. Jewell.

111. Unidentified Male. Derbt. Mon's Charles

112. Unidentified Male. Wollerhampton. Dodds.

113. Unidentified Male. London, England. A. Mayman.

(Vol. 558 cont'd)

114. Unidentified Male. Manchester. P. Ambler.

115. Unidentified Male. Devizes. W.G. Honey.

116. Unidentified Male. Dunedin. London Portrait Rooms.

117. Unidentified Female. Leighton Buzzard. Piggott.

118. Unidentified Female. Kingsland N. Wilson & Co.

119. Unidentified Female. Wolverhampton. Mrs. Willliams.

120. Unidentified Female. Port. Hope. E. Hamly.

121. Unidentified Female. Cobourg & Pt. Hope. G. Sawes.

122. Unidentified Female. Port Hope. E. Hamly.

123. Unidentified Male. Port Hope. E. Hamly.

124. Unidentified Female & Child. Port Hope. E. Hamly.

125. Unidentified Female. Stratford. Shannon.

126. Unidentified Female. Stratford. Shannon.

127. Unidentified Female. Stratford. Shannon.

128. Unidentified Female. Stratford. Shannon.

129. Unidentified Female. Stratford. Shannon.

130. Unidentified Male. Stratford. Shannon.

131. Unidentified Male. Stratford. Shannon.

132. Unidentified Male. Stratford. Shannon.

133. Unidentified Female. Stratford. Campbell & Foster.

134. Unidentified Female. Stratford. Krupp.

135. Unidentified Male. Stratford. Krupp.

136. Unidentified Male. Stratford. John Owen.

(Vol. 558 cont'd)

137. Unidentified Female. Stratford. John Owen.

138. Unidentified Female Child. Stratford. John Owen.

139. Unidentified Female Child. Stratford. John Owen.

140. Unidentified Male Child. Stratford. John Owen.

141. Unidentified Male (?) Child. Stratford. John Owen.

142. Unidentified Female. Stratford. De La Francier Bros.

143. Unidentified Male. Stratford. De La Francier Bros.

144. 3 Unidentified Females. Stratford. W.I. Becker.

145. Unidentified Male. [1897]. Stratford. Maitland.

146. Unidentified Female. Stratford. Maitland.

147. Unidentified Female. Stratford. Maitland.

148. Unidentified Female. n.p.

149. Unidentified Male. Stratford.

150. Unidentified Child. Stratford.

151. Unidentified Child. Stratford.

152. Unidentified Child. Stratford. Wybrant.

153. Unidentified Female. Stratford.

154. Unidentified Female. Stratford.

155. Unidentified Male. Stratford.

156. Unidentified Female. Stratford.

157. Unidentified Female. Stratford.

158. Unidentified Group of Nunses.

(Vol. 558 cont'd)

159. Unidentified Group of Nurses.

160. Unidentified House, Family - Parents and 3 Children.

161. Unidentified House, 3 Men.

162. Unidentified House, Female and Child.

163. Composite Photo of Many Children, "A Wreath of Love". William Luks, London.

164. Unidentified Group of 8 Mmen.

165. Male Child. "Chilton Whitemoreams". Suffield(?) Birmingham.

166. Unidentified Female. Stratford. Maitland.

167. W.S. Dingman(?) 1905. Stratford. Maitland.

168. House, Probably Belonging to J.D.B. in Stratford.

169. Unidentified Male. Montreal. J.G. Parks.

170. Unidentified Male.

171. Group Photo - Delegates to International Geological Congress - Toronto 1913. Dominion Photo.

BARNETT, John Davis

MG 30 B 86

DRAWINGS

VOLUME: 1 - (Location: D249 F1)

1. Kellogg Bridge Co., Buffalo, N.Y., [Unidentified Railway Bridge]. Buffalo: 1873. Linen.
   Drawings show: Elevation.
   Plans of bridge and lower chord.
   Rocker end.
   Stationary end.
   Details of section.
   End view.
   Section at centre.

Location: D263 F1

2. Schneider & Co., Engineers, Creusot, Bridge at Vienna over the Danube. Sheet 1. Supplement to The Engineer, Jan. 29, 1875. Portfolio of Working Drawings No. 84. Tracing paper.

3. Schneider & Co., Engineers, Creusot, Bridge at Vienna over the Danube. Sheet 2. Supplement to The Engineer, Feb. 5, 1875. Portfolio of Working Drawings No. 85. Tracing paper.

4. Bridge over the Commercial Road at Stepney on the Blackwall Extension Railway. Erected by Fox & Henderson, 1848. Removed by Andw. Handyside & Co., Ltd., 1875. Supplement to The Engineer, May 26, 1876. Portfolio of Working Drawings No. 93. Tracing paper.

VOLUME: 2 - (Location: D563 F1)

1. Plan of a Turntable for Desjardins & Welland Canal Iron Swing Bridges. n.p.: n.d. Linen.
   Scale: 1 inch = 1 foot.
   Drawings show: Traverse Section.
   Plans of rollers and upper portion of roller frame.
   Plan of bed plates, arms and lower portion of turntable.

Location: D249 F1

2. W. Fairbairn & Sons,Manchester, G.W. Railway Canada. Swing Bridges Over Desjardins and Welland Canals. Turntables. Manchester: 1859. Colour. Linen.
   Scale: 1 inch = 1 foot.
   Drawings show: Transverse section.
   Plan of rollers.

Location: D263 F1

3. Sections of Girder for Strengthening Hanwell Bridge. G.W.R. n.p.: n.d. Colour. Tracing papers.
   Scale: 1 inch = 1 foot.

4. G.W.R. New Mill Bridge Near Llantrissant. Swindon: [1884]. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.
   Drawings show: Sections, details, plans, cross girders, rail bearer, end elevation.

5. G.W.R. New Mill Bridge Near Llantrissant. [Swindon: 1884]. Colour. Tracing paper.
   Scale: 1/2 inch = 1 foot.
   1 1/2 inches = 1 foot.
   Drawings show: Elevation centre girder.
   Inside sectional elevation
   Cross section.
   Details.

(Vol. 2 cont'd)

6. G.W.R. New Mill Bridge Near Llantrissant. [Swindon: 1884]. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.
Drawings show: Half elevation outside girder.
Cross section.
End view of bed plate.
Detail of joints....
Sections.
Plan.

7. New Wrought Iron Girder Bridge Over Canal Between Princes End and Tipton. G.W.R. n.p.: 1873. Tracing paper.
Drawings Shown: Elevation.
Cross sections of girders.

8. Bridge Between "Loco" Works and Stones[?] Over Stafford Rd. Wolverhampton. G.W.R. n.p.: 1861. Colour. Tracing paper.

9. Barnard, I.F.[?], Lacalle River - 4 Girders. n.p.: n.d. Colour. Linen.
Scale: 3/4 inch = 1 foot.
3 inches = 1 foot.
Drawings show: Elevation.
Section.
Plan.

10. Sharp, J. Fox, Engineer, Sculcoates Bridge, Kingston Upon Hull. Supplement to The Engineer, April 16, 1875. Portfolio of Working Drawings No. 87. Tracing paper.

11. Sharp, J. Fox, engineer, Sculcoates Bridge, Kingston, April 2, 1875. Portfolio of Working Drawings No. 86. Tracing paper.

VOLUME: 6 - (Location: D563 F1)

1. Von Rupert's Mode of Taking Up Expansion and Other Irregularities in Suspension Chord of Bridge. From Engineer, Oct. 18, 1867. pp. 330-331. Tracing paper.

VOLUME: 11 - (Location: D563 F1)

1. Details of Trestlework. n.p.: n.d. Tracing paper.
Scale: 1/2 inch = 1 foot.
Drawings show: Cross Section.
Sectional Elevation.
Related Cost Estimates in Barnett Manuscript Box Vol. 11.

VOLUME: 12 - (Location: D563 F1)

1. Bazalijette, J.W., Chelsea Embankment. n.p.: [1870?].
Tracing paper.
See Related Description in Barnett Manuscript Box Vol. 12.

VOLUME: 14 - (Location: D563 F1)

1. Steel's Brick Making Machine. Montreal: 1866. Colour.
Linen.
Drawings show: End views.
Side elevation.
Central longitudinal section.
Top plan.
Sectional plan.

VOLUME: 16 - (Location: D249 F1)

1. Undentified colour architectural and engineering drawing showing window, skylight, ventlation for building.
Scale 1 1/2 inches = 1 foot
3 inches = 1 foot (full size)

VOLUME: 19 - (Location: D563 F1)

1. Eaton, R., Safety Lock. n.p.: 1866. Tracing paper. Bears Initials: "J.D.B."
   Drawings show: End section.
   Elevation.

2. Eaton, R., Safety Lock. Grand Trunk Railway. n.p.: 1866. Tracing paper.
   Drawings show: End section.
   Elevation.
   Plan of bolt and tumbler.

VOLUME: 24 - (Location: D563 F1)

1. Plan of a Mill for the Repair of Rails by Baines' Reversible Forge Rolls. n.p.: 1870. Colour. Linen.
   Scale: 1/16 inch = 1 foot.

2. Track and Skid Rails for Charging Carriage for Baines' Reversible Forge Rolls. n.p.: 1870. Linen.

3. Baines' Furnace for Repairing Rails. n.p.: 1870. Colour. Linen.
   Scale: 3/4 inch = 1 foot.
   1 1/2 inches = 1 foot.
   Drawings show: Plan of furnace at doorway.
   Sections.
   Elevation.
   Chimney.

4. Details of Foundation of Baines' Reversible Forge Rolls. n.p.: 1870. Colour. Linen.
   Scale: 3/4 inch = 1 foot.

5. Arrangement of Shafting, Pullies, Etc. for a Mill for the Working of Baines' Reversible Forge Rolls. n.p.: 1870. Linen.
   Scale: 1/8 inch = 1 foot.
   Drawings show: Sections.
   Plan of mill at upper side of tie beams.

(Vol. 24 cont'd)

6. [Baines' Reversible Forge Rolls]. n.p.: 1870. Linen.
Scale: Half Size.
Drawings show: Spring rollers for straightener.
Roller and frame.

7. [Baines' Reversible Forge Rolls]. n.p.: 1870. Linen.
Scale: 1 inch = 1 foot.
1 1/2 inches = 1 foot.
Drawings show: Gauge posts.
Rail carriage.
Level of skids.
Base plate of straightener.
Section.

VOLUME: 25 - (Location: D563 F2)

1. Details of Plant for the Manufacture of Chilled Wheels.
n.p.: n.d. Colour. Heavy paper.
Scale: 1/8 inch = 1 foot.
1/2 inch = 1 foot.
Drawings show: Plan of Molding Shop.
Pits for Coolong Wheels.

2. Details of Plant for the Manufacture of Chilled Wheels.
n.p.: n.d. Colour. Heavy paper.
Scale: 1 1/2 inches = 1 foot.
Drawings show: Plan of Top Flask.
Section of Chill.
Plan of Chill
Plan of plate.
Bracket for Ladle.
Small Casting Ladle.
Elevation of Ladle.
Plan of Ladle.

3. Six Ton Cupola for Bessemer Shop. n.p.: n.d. Blueprint.
Scale: 1/2 inch = 1 foot.

4. [Cupola]. n.p.: n.d. Blueprint.
Scale: 1 inch = 1 foot.

(Vol. 25 cont'd)

5. Moulding Machine. Swindon, England: 1879. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears Initials: "G.B." Probably George Barnett, Father of J.D. Barnett.
See Barnett Manuscript Box Vol. 25 for related correspondence.

6. Hughes, G., Cupolas for Iron Foundry. Drawing No. 86. n.p.: n.d. Tracing paper.
Scale: 1/2 inch = 1 foot.

7. Chill for Casting Patent Metal Liners. G.W.R. n.p.: 1866. Tracing paper. Colour.
Scale: Full Size.
Bears Initials: "G.B."

VOLUME: 26 - (Location: D563 F2)

1. Proposed Hood for Double Hearth. n.p.: n.d. Pencil drawing.
Scale: 1 inch = 1 foot.
Drawings show: Side elevation.
End View.

2. 5 Ft. 6 In. [Forging] Fan. n.p.: 1866. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials: "G.B." and "J.D.B."

3. Hughes, G., 4 Ft. Smith Hearth No. 177. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.

4. Double Hearth for New Smithey. Stafford Road. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

5. Stratford Smith. Stratford, Ont.: n.d. Red and black pen drawing on lined paper.

(Vol. 26 cont'd)

6. Arrangement of Forges, Car Shops, London. London, Ontario: n.d. Linen.
Scale: 1/8 inch = 1 foot.
Included: Plan of Forges for Blacksmith's Shop.

7. [Plan for Smithy, Grand Trunk Railway]. Drawer No. 4.
n.p.: n.d. Blueprint.

8. Smith's Hearth. n.p.: 1875. Black pen on lined paper.

9. Smith's Fire Box. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.

10. Garnett & Moore, North Foundry, Liverpool, [Hearth].
Liverpool: 1846. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

11. Garnett & Moore, North Foundry, Liverpool, [Hearth].
Liverpool: 1847. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

VOLUME: 27 - (Location: D563 F3)

1. Arrangement for a Forge for a 30 CWT Steam Hammer.
n.p.: n.d. Linen.
Scale: 3 inches = 1 foot.

2. R. Morrison's Patent Steam Hammer Tracing No. 1. n.p.:
n.d. Colour. Tracing paper.
See Barnett Manuscript Box Vol. 27 for Description.

3. Pneumatic Hammer. n.p.: n.d. Blueprint.

4. Pneumatic Hammer. n.p.: n.d. Blueprint.

5. Brackets to Support Gap-Plates for Locomotive Weighting Machine. Great Western Railway. Hamilton: 1865. Linen.
Scale: Half-size.

(Vol. 27 cont'd)

6. Bement Miles & Co., Philadelphia, Foundation for Steam Hammer. Philadelphia: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.

7. Ferris & Miles, Philadelphia, Foundation for 650 lbs. Hammer. Philadelphia: 1874. Colour. Linen.
Scale: 3/4 inch = 1 foot.
Annotated: "Exm JDB. 15-1-/74"

8. G.T.R. Foundation for 650 lbs. Hammer. n.p.: n.d. Colour. Linen.

9. Grand Trunk Railway, Mechanical Dept., Standard for 30 cwt Steam Hammer. Drawing No. 1171. Pt. St. Charles: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Drawings show: front and side elevations, and plan of top.

Location: D249 F1

10. [Valve Gear. Steam Hammer]. n.p.: n.d. Tracing paper.
Diagrams and detailed instructions on: Adjusting the Valve Gear. Managing the Steam Hammer.

Location: D563 F3

11. Fredk. B. Miles, Engineer, Foundation for 3000 Steam Hammer. Philadelphia: 1880. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.
Annotation: "Great Western Ry of Canada"

12. Ferris & Miles, Philadelphia, Foundation for 1000 Hammer. Philadelphia: Pat. July 5th, 1870. Colour. Heavy paper.
See Barnett Manuscript Box Vol 27 for clipping that was attached to drawing.

13. B. & S. Massey Openshaw Canal Iron Works, Manchester, 5 CWT. Patent Steam Hammer, Double-Acting, Self-Acting, and Hand-Worked. Manchester: n.d. Falkner Lith., Manchester. Heavy Paper.
Scale: 1 1/2 inches = 1 foot.
Drawing shows: Base.

(Vol. 27 cont'd)

14. B. & S. Massey, Openshaw Canal Iron Works, Manchester, 5 CWT. Patent Steam Hammer, Double-Acting, Self-Acting, and Hand-Worked. Manchester: 1873. Falkner Lith., Manchester. Light weight paper.
Scale: 1 1/2 inches = 1 foot.

15. B. & S. Massey, Openshaw Canal Iron Works, Manchester, 5 CWT. Patent Steam Hammer, Double-Acting, Self-Acting and Hand-Worked. Manchester: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

16. B. & S. Massey, Openshaw Canal Iron Works, Manchester, 10 CWT. Steam Hammer. Manchester: 1871. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "For the Grand Trunk Railway of Canada."

17. Thwaites Brothers, Engineers, Bradford, Yorkshire, 6 CWT. Double Frame Hammer Self-Acting & Hand-Worked. Drawing No. 1113. Bradford, Yorkshire: [1883]. Tracing paper.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol.27 for related correspondence.

18. Thwaites Brothers, Engineers, Bradford, Yorkshire, 8 CWT. Double-Frame Hammer. Self-Acting and Hand-Worked. Drawing No. 18991. Bradford, Yorkshire: [1883]. Tracing paper.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol. 27 for related correspondence.

19. Thwaites Brothers, Engineers, Bradford, Yorkshire, 8 CWT. Single Standard box Section Steam Hammer. Self-Acting and Hand-Worked. Drawing No. 1330. Bradford, Yorkshire: [1883]. Tracing paper.
Scale: 3/4 inch = 1 foot.
See Barnett Manuscript Box Vol. 27 for related correspondence.

20. Thwaites Brothers, Engineers, Bradford, Yorkshire, 10 CWT. Single Standard Box Section Steam Hammer. Self-Acting and Hand-Worked. Drawing No. 1339. Bradford, Yorkshire: [1883]. Tracing paper.
Scale: 3/4 inch = 1 foot.
See Barnett Manuscript Box Vol. 27 for related correspondence.

(Vol. 27 cont'd)

21. Thwaites Brothers, Engineers, Bradford, Yorkshire, 10 CWT. Double-Frame Hammer. Drawing No. 1899. Bradford, Yorkshire: [1883]. Tracing paper.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol. 27 for related correspondence.

VOLUME: 28 - (Location: D563 F4)

1. Dunn's Patent Wide Span Roofing. n.p.: 1867. Light weight paper.

2. Dunn's Patent [Suspended] Wide Span Roofing. n.p.: 1867. Light Weight paper.

3. W. Mills, Engineer; M.T. Shaw & Co., Iron Work, Roof and Rain-Water Pipe. L.C. & D.R. Blackfriars Goods Warehouse. Supplement to The Engineer. Portfolio of Working Drawings. No. 70. Tracing paper.

Location: D249 F1

4. Roof for Proposed Carriage Shops. G.W.R. n.p.: 1867. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.
Bears Initials "G.B." Probably George Barnett, father of John Davis Barnett.

Location: D563 F4

5. Details of Roof. Stafford Road Engine Shed. G.W.R. n.p.: 1865. Colour. Tracing paper.
Bears initials "G.B."

(Vol. 28 cont'd)

Location: D249 F1

6. Roof for Proposed Carriage Shops. G.W.R. n.p.: 1868. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.
Bears initials ".G.B."

Location: D563 F4

7. [Detailed Drawings of Unidentified Roof]. n.p.: n.d. Tracing paper.
Scale: Full Size.
1/4 Full size.
1/8 Inch = 1 foot

Location: D249 F1

8. Roof Principal for Extension of Smithey Stafford Road G.W.R.
n.p.: 1863. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.
Full size.

Location: D563 F4

9. Girder for Saw Mill. n.p.: 1875. Linen.
Annotation: "Exm JDB. 31-7-/75.

10. Beam Tested for Saw Mill Roof. n.p.: n.d. Tracing paper.
Scale: 1/2 inch = 1 foot.

11. Plan and Elevation of Iron Roof for Tank Houses. Ireland:
ca. 1846. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F1

12. Column of Principal for Proposed Carriage Works at Swindon.
Swindon: 1867. Colour. Tracing paper.

(Vol. 28 cont'd)

Location: D563 F4

13. Details of Iron Roof. n.p.: n.d. Tracing paper.
Scale: Full Size.
1/2 Size.

14. Roof Principal and Floor Girders. New Fitting Shop. Stafford Road Works. G.W.R. England: 1863. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

15. Proposed G.W.R. Engine Shed. England: 1854. Tracing paper.
Drawings Show: Roof struts.
Rose at intersection of struts.

16. Roofs Over New Machine Shops at Swindon for the Great Western Railway Co. Swindon: n.d. Colour. Tracing paper.
Scale: 1 inch = 4 feet.
Drawings show: Transverse Section.
1/2 Longitudinal section.

17. [80 Foot Roof Span]. n.p.: n.d. Tracing paper.
Scale: 1/4 inch = 1 foot.
Explanation of pressures on members.

18. [Roof Span]. n.p.: n.d. Tracing paper.
Shows Tension in upright braces.

19. Dunn, Engineer, Manchester, Design for Wrot Iron Roof. 150 Feet Span. Manchester: 1867. Colour. Tracing paper.

20. Dunn, Engineers, Manchester, Design for Wrt. Iron Roof. 150 Feet Span. Manchester: 1867. Colour. Tracing paper.
Scale: 1/8 inch = 1 foot.

21. Rankine, W.J.M., Frames of Roofs. Diagram and explanation from Engineer, Feb. 16, 1872. p. 114. Tracing paper.

22. Gillott, Thomas, Some Conditions to Be Observed in Designing Pointed Roofs. Diagrams and explanation from Engineer, Aug. 11, 1871. p. 88. Tracing paper.

Location: D563 F5

23. Part Section of Roof of Chancel to Grace Church Montreal. Montreal: n.d. Colour. Tracing paper.

(Vol. 28 cont'd)

24. William Robinson, London, Ont., Roof Principal. Church. Can. London: 1857. Colour. Heavy paper.
Scale: 1 inch = 1 foot.

Location: D249 F1

25. [Detailed Drawing of Roof]. n.p.: 1875. Tracing paper.
Scale: 1/2 inch = 1 foot.
Annotation: "No. 379 - exm JDB 15-1-/75"

Location: D563 F5

26. Roof - New Stores - Toronto. Toronto: 1870. Colour. Tracing paper.
Scale: 1 inch = 8 feet.

27. Roof Over Passage Between Turning and Erecting Shop. Pt. St. Charles. Pt. St. Charles: 1873. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.

28. [Unidentified Building]. n.p.: n.d. Tracing paper.
Scale: 1/8 inch = 1 foot.
Diagram shows: Roof and underground supports.

29. Girder Machine Shop. Toronto. [Roof of]. Toronto: 1870. Colour. Tracing paper.
Scale: 1 inch = 4 feet.

30. Roof Principal. Brockville Freight Shed. Brockville: n.d. Tracing paper.
Scale: 1 inch = 4 feet.

31. 40 Ft. Wood Roof. O.S. n.p.: [1877]. Lined paper.
Attached: Casting for Keying Straps on Beam Ends.

32. G.T.R. Mechl. Dept., Passenger Car Shop Roof at Pt. St. Charles. Pt. St. Charles: [1881]. Linen.
See Barnett Manuscript Box Vol. 28 for related memorandum.

33. G.T.R. Mechl. Dept., Roof Truss for Locomotive Engine Shed. Drawing No. 2180. Pt. St. Charles: 1883. Blueprint.
Scale: 1/2 inch = 1 foot.

VOLUME: 31 - (Location: D563 F5)

1. Trestle for Paint Shop. n.p.: n.d. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

2. A Cottage for One Thousand Dollars. and A Residence in Michigan. Supplement to Architects and Builders Edition of Scientific American for Jan. 1888. Printed on 2 sides.

3. Details of Handsome Residence Just completed for W.W. Woodruff, Esq. Knoxville, Tenn. A.C. Bruce, Arch't. The Detail Sheet of the American Builder, Jan. 1878.

4. The American Builder: Detail Sheet.. New York: 1877. Drawings show: New York Post Office Truss.
   Dormers, 1/2 inch Scale.
   Detail of Twin Villa by J. Crofton.

VOLUME: 32 - (Location: D563 F5)

1. Wood Cutting Circular Saw. Stafford Road. G.W.R. England: 1866. Colour. Tracing paper.

2. Wood Planing Machine. Front Elevation. n.p.: n.d. Colour. Tracing paper.
   Items 2 - 8 were formerly attached.

3. Wood Planing Machine. Elevation at Back. n.p.: n.d. Colour. Tracing paper. Items 2 - 8 were formerly attached.

4. Wood Planing Machine. End Elevation. n.p.: n.d. Colour. Tracing Paper. Items 2 - 8 Were Formerly Attached.

5. Wood Planing Machine. Plan at Top. n.p.: n.d. Colour. Tracing paper. Items 2 - 8 were formerly attached.

6. Wood Planing Machine. Plan on Underside of Bed Plate. n.p.: n.d. Colour. Tracing paper. Items 2 - 8 were formerly attached.

7. Wood Planing Machine. Plan on Top of Bed Plate. n.p.: n.d. Colour. Tracing paper. Items 2 - 8 were formerly attached.

(Vol. 32 cont'd)

8. Wood Planing Machine. Sections. n,.p.: n.d. Colour. Tracing paper. Items 2 - 8 were formerly attached.

VOLUME: 33 - (Location: D563 F5)

1. Gate for V.B. n.p.: n.d. Colour. Linen.
Scale: 3/4 inch = 1 foot.
Drawing shows: 12 foot high oak slat gate.

Location: D249 F1

2. Gates for New Workshop. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Drawings show: Elevation.
Section.
Details for carriers, pulleys, Angle iron, etc.
Full size.

VOLUME: 34 - (Location: D563 F6)

1. Chimney of Engine Works. Ct. Sn. & Nn. Railway, Inchicore, Dublin. Dublin: 1846. Tracing paper.
Scale: 1/4 inch = 1 foot.

2. John Hocking, Junior, engineer, Cornish Engine Series. No. 6. Saint Day United Mine. Engine House & Stack for an 80 Inch Pumping Engine. Supplement to The Engineer Nov. 4, 1870. Portfolio of Working Drawings No. 38.

3. Chimney for New Workshops. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 3 feet.
Drawings include Half Size details of stone-work at cap and base of chimney.

(Vol. 34 cont'd)

4. Chimney for 1 Cornish Boiler 15 h.p. Portfolio No. 4 Engineer, Sept. 11, 1868. p. 206 1/2. Tracing paper and lined paper.
Scale: 1/4 inch = 1 foot.

5. Roe, C.S., Chicago, Roe Ventilator with Smoke Jack for Engine Houses. Chicago: Pat. 1878, 1888. Blueprint.
Scale: 1 inch = 1 foot.
1/2 inch = 1 foot.
Full size.
Bears Rubber Stamp: "Geo. A. Harris, Blue Printing, Blue Process Paper, Commercial Photographer, 150 State St., - Chicago."

VOLUME: 47 - (Location: D563 F6)

1. [Drawings of Unidentified Church]. n.p.: n.d. Colour. Tracing paper.
Scale: 1/4 inch = 1 foot.

VOLUME: 48 - (Location: D563 F6)

1. Addition to Chancel Grace Church, Montreal. Montreal: [1872]. Colour. Tracing paper.
Scale: 1 1/4 inches = 10 feet.
See Barnett Manuscript Box Vol. 48 for Specification of work required in excavators and masons portion of work.

2. Side Elevation Church - Can. n.p.: n.d. Heavy paper.

3. Church - Can. Traverse Section Showing the Proposed Roof. n.p.: n.d. Heavy paper.
Scale: 1 inch = 4 feet.

4. Church - Can. n.p.: n.d. Heavy paper.
Drawing shows: front elevation.

(Vol. 48 cont'd)

5. Church - Can. Transverse Sextion. n.p.: n.d. Heavy paper.
Scale: 1 inch = 4 feet.

VOLUME: 50 - (Location: D563 F6)

1. Bench for Dalhousie Episcopal Church. n.p.: n.d. Tracing paper.
Drawings show: Front and end elevations.
Section.

2. Elevation of Niche. R.C. Church, Formby. Formby: n.d.
Colour. Heavy paper.
Scale: 2 inches = 1 foot.

VOLUME: 56 - (Location: D563 F6)

1. Axle Box for Tender of Passenger Engine. n.p.: n.d. Colour.
Tracing paper.
Scale: Full size.

2. G.W.R. Inside Driving Axle Box. Nos. 322 to 341. n.p.: 1865.
Colour. Tracing paper.
Scale: Full size.
Bears intials "G.B." Probably George Barnett, father of John Davis Barnett.

3. Axle-Box for G.T.R. Standard Engine Truck. Drawing No. 915. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

4. Axle-Box for 4 Ft. Wheel Coupled Tank Engines (Single Bearing). G.W.R. n.p.: 1866. Tracing paper.
Scale: Full Size.
Bears initials "G.B." and "J.D.B."

5. Truck Axle Box. Intercolonial. n.p.: n.d. Tracing paper.
Drawings include Inside Bearing.

(Vol. 56 cont'd)

6. [Beyer?] Peacock & Co., Engine Axle Box. n.p.: n.d. colour. Tracing paper.

Location: D249 F1

7. Leading Axle Box Passenger Engines. G.W.R. No. 1804. Swindon: n.d. Colour. Tracing paper.
Scale: Full size.

Location: D563 F6

8. Barnett, George, Axle Box. Edge Hill, England: 1846. Tracing paper.
Scale: Full size.
Made from the Working Drawing in use in the Liverpool and Manchester Workshops at Edge Hill.

9. Driving & Trailing Axle-Box for Engines E.F. n.p.: n.d. Colour. Linen.

10. Barnett, G., Axle Box. [England]: 1866. Colour. Tracing paper.

11. Arrangement of Horns & Axle-Boxes. G.W.R. No. 12740. Swindon: 1896. Colour. Heavy paper.
Scale: 3 inches = 1 foot.

12. Leading and Driving Axle Boxes. No. 3470. N.E.R. Gateshead: 1893. Blueprint.
Scale: Full size.

Location: D 563 F7

13. South Western Railway, New Mixed Traffic Engine. L & D. Axle Box & Guides. L. & S.W.R. Copy Drawing No. 6735. Nine Elms Works, London, England: 1894. Colour. Heavy paper.
Scale: Half size.

(Vol. 56 cont'd)

14. Box for Lateral Motion Car Truck. Standard Narrow Gauge. G.T.R. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.
Half size.

Location: D249 F1

15. Axle Box Off a Tracing from Gloucester Wagon Co. Grand Trunk Railway. n.p.: n.d. Colour. Tracing paper.
Scale: Full size.

Location: D563 F7

16. Box for Tender Truck. Drawing No. 1208. n.p.: n.d. Colour. Linen.
Scale: Half size.
1 1/2 inches = 1 foot.

17. G.T.R. Crank Shaft for Kingston Freight Engines. Nos. 204, 205, 206, 184, 185. Drawing No. 307. n.p.: 1867. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Signed by Richard Eaton, Probably an uncle of John Davis Barnett.

18. Axles for Freight Engines W.X.Y.Z. Grand Trunk Railway. n.p.: 1872. Colour. Linen.
Scale: Full size.
Bears rubber stamp: "R. Eaton, Supt."

19. Fracture of Axle at Bearing of the "Sylph" Engine. Swindon: 1866. Colour. Tracing paper.

20. 4 Ft. 6 In. Wheel-Axles & Outside Cranks. G.W.R. n.p.: 1866. Colour. Linen.
Scale: 3 inches = 1 foot.

21. [Axle-Box]. n.p.: n.d. Colour. Linen.

22. [Axle-Box]. n.p.: n.d. Colour. Tracing paper.

(Vol. 56 cont'd)

Location: D249 F1

23. [Axle-Box.] n.p.: n.d. Colour. Tracing paper.

Location: D563 F7

24. Axle Boxes with Wood Dust Guards at Back. G.W.R. n.p.: [before 1856]. Colour. Tracing paper, mounted on lined paper. bears the initials "G.B."

25. Johann, Jacob, Supt. M.P. & R.S., Johanns End Stop & Journal. Texas & Pacific Ry. Marshall, Texas: 1887. Copy of Blueprint. Deatiled description included.

VOLUME: 58 - (Location: D563 F7)

1. Como Shops. Couplings & Hangers. N.P.R.R. Set No. S. 1. Sheet No. 7. n.p.: n.d. Blueprint.

2. Shafting Hangers & Coupling. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

3. [Unidentified Bracket]. n.p.: n.d. Colour. Tracing paper.

4. [Unidentified Bracket and Wheel]. n.p.: n.d. Colour. Tracing paper.

VOLUME: 61 - (Location: D563 F7)

1. Denny & Co., Engineers, Dumbarton, J.F. Spencer's Patent Surfce Condensing Screw Engines of 200 H.P. for a 1500 Ton Steam Ship. From The Artizan, April 1, 1863. Tracing paper.

(Vol. 61 cont'd)

2. Hydraulic Propeller. From The Artizan, Oct. 1, 1863. Tracing paper. Formerly Attached to Item 3.

3. Hydraulic Propeller. As Fitted to the "Seraing No. 2". Constructed by the Society Cockeril, Seraing, Belgium. From The Artizan, Oct. 1, 1863. Tracing paper. Formerly attached to Item 2.

4. Air Pump Bucket for The Steamer "Sheffield". n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 Size.

Location: D564 F1

5. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Sheet 1. Supplement to The Engineer, Oct. 6, 1876. Portfolio of Working Drawings No. 97. Tracing paper.

6. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Sheet 2. Supplement to The Engineer, Nov. 3, 1876. Portfolio of working Drawings No. 98. Tracing paper.

7. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Sheet 3. Supplement to The Engineer, Dec. 1, 1876. Portfolio of Working Drawings no. 99. Tracing paper.

8. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Sheet 4. Supplement to The Engineer, Jan. 5, 1877. Portfolio of Working Drawings No. 100. Tracing paper.

9. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Sheet 5. Supplement to The Engineer, Jan. 25, 1877. Portfolio of Working Drawings No. 101. Tracing paper.

10. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Details of Air Pump & Main Connections Sheet 6. Supplement to The Engineer, April 6, 1877. Portfolio of Working Drawings No. 102. Tracing paper.

(Vol. 61 cont'd)

11. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Details of Valve Gear. Sheet 7. Supplement to The Engineer, June 8, 1877. Portfolio of Working Drawings No. 103. Tracing paper.

12. Baird, John, engineer; Pusey Jones & Co., builders, Engine of Steamship Hudson, Cromwell Line. Details of Valve Gear. Sheet 8. Supplement to The Engineer, June 22, 1877. Portfolio of Working Drawings No. 104. Tracing paper.

13. Kingston and Feed Plug Valves for Engines 100 H.P. Noml. Colly.R.N. Supplement to The Engineer, May 3, 1873[?]. Portfolio of Working Drawings No. 55. Colour. Tracing paper.

14. Plug and Relief Valves for Enginees of 100 H.P. Noml. Colly. R.N. Appears to have been supplement to The Engineer, n.d. Colour. Tracing paper.

VOLUME: 62 - (Location: D564 F1)

NOTE:

See Barnett Manuscript Box Vol. 62 for Information About International Iron Ferry Boat - Pt. Edward, Sarnia, Built by Gilbert of Montreal.

1. G.T.R. Proposded Hydraulic Lift for Ferry Boats at Sarnia. Stratford: 1879. Colour. Linen.
Scale: 3/32 inch = 1 foot.
See Barnett Manuscript Box Vol. 62 for related correspondence.

Location: D249 F1

2. [Unidentified Boat]. n.p.: 1874. Colour. Linen.
Annotation: "J.D.B. exm. 28-4-/76."

(Vol. 62 cont'd)

3. Grand Trunk Railway. 7 in. Steam Valve. Twin Screw Engines for Ferry Boat. Huron. Drawing No. 1229. n.p.: [1875]. Colour. Linen.
Scale: half size.
Annotation: "Exm. J.D.B. 25-6/75."

4. Stern Post Bearing for Screw Shaft. Ferry "International" Sarnia. Grand Trunk railway. n.p.: [1874]. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 7-8/74."

5. [Unidentified Boat]. No. 3. Cross Section. n.p.: [1876]. Colour. Linen.
Annotation: "Exm. J.D.B. 28-4/76."

6. Stanchens for Hand Railing. and Sketch Showing Whaling Timbers Outside Gusset and Floor Beam. No. 4. n.p.: 1874. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm. J.D.B. 28-4/74."

7. [Unidentified Side-Wheel Boat]. n.p.: n.d. Linen.
Scale: 1 inch = 8 feet.
Drawings Show: Elevation.
Plan.

8. Position of Steam Pipes in Twin Screw Ferry Boat "Huron". Grand Trunk Railway. Mechanical dept. Drawing No. 1240. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

9. Stern Bearing for Twin Screw Engines. Steam Ferry Boat "Huron". Grand Trunk Railway Mechanical Dept. Drawing No. 1230. n.p.: 1875. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 25-6/75."

Location: D249 F1

10. Bearings for Twin Screw Engines. Grand Trunk Railway. Drawing No. 1220. n.p.: 1875. Colour. Linen.
Scale: 3inches = 1 foot.
Drawings show details of the thrust bearing and the intermediate bearing.
Annotation: "Exm. J.D.B. 27-1/75."

(Vol. 62 cont'd)

Location: D564 F1

11. Twin Screw Engines. G.T.R. Ferry Boat "Huron." Drawing No. 1226. n.p.: [1876]. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 30-7/76."

12. Design of Two Horizontal High Pressure Engines for the G.T.R.R. Ferry-Boat at Sarnia. Dundas Foundry. n.p.: 1864. Linen.
Scale: 1 inch = 1 foot.

Location: D249 F1

13. Twin Screw Engines for Iron Ferry Boat. G.T.R. Drawing 1180. n.p.: 1875. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "exm. J.D.B. 23-6/75."

Location: D564 F2

14. Details for Twin Screw Engines. Grand Trunk Railway Drawing No. 1221. n.p.: [1875]. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 27-1/75."

15. Lock-Up Safety Valve for Ferry Boat at Sarnia. Grand Trunk Railway. n.p.: 1859. Colour. Linen.

16. Alteration of Apron Girders. Sarnia. G.T.R. Mechl. Dept. n.p.: 1878. Linen.
Scale: 3/8 inch = 1 foot.

17. Regulator Valve for Twin Screw Engines for New Ferry Boat Huron. Grand Trunk Railway Mechanical Dept. Drawing No. 1228. n.p.: [1875]. Colour. Linen.
Scale: half size.
Annotation: "Exm. J.D.B. 5-2/75."

(Vol. 62 cont'd)

Location: D249 F1

18. [Details of Unidentified Boat]. n.p.: 1874. Colour. Linen.
Scale: 1/2 inch = 1 foot.
Annotation: "Exm. J.D.B. 28-4/74."

Location: D564 F2

19. Pump for Twin Screw Engines. Grand Trunk Railway Mechanical Dept. Drawing No. 1226. n.p.: 1875. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 25-6/75."

20. Fire-Box Mountings, Etc. Ferry Boat Huron. Grand Trunk Railway. Drawing No. 1341. n.p.: [1875]. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm. J.D.B. 31-7-/75."

21. Relief Valve on Cylinder Cover for Twin Screw Engines. G.T.R. Ferry. Grand Trunk Railway Mechanical Dept. Drawing No. 1239. n.p.: 1875. Colour. Linen.
Scale: Full Size.
Annotation: "Exm. J.D.B. 25-6-/75."

22. Gilbert's Patent Adjustable Shaft Coupling as Applied to Screw Shafts of the G.T.R. Ferry Boat "International." Grand Trunk Railway Mechl. Drawing No. 1242. n.p.: [1875]. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm. J.D.B. 29-1-/75."

Location: D249 F1

23. Details of Motion for Twin Screw Engines. New Ferry Boat "Huron" at Sarnia. Grand Trunk Railway Mechl. Dept. Drawing No. 1225. n.p.: [1875]. Colour. Linen.
Scale: 1 1/2 and 3 inches = 1 foot.
Annotation; "Exm. J.D.B. 27-1-/75."

(Vol. 62 cont'd)

Location: D564 F2

24. Main Frame for Twin Screw Engines. Grand Trunk Railway Mechanical dept. Drawing No. 1224. n.p.: [1875]. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm. J.D.B. 29-1-/75."

25. Details of Motion Rods for Twin Screw Engines. Grand Trunk Railway Drawing No. 1227. n.p.: [1875]. Colour. Linen.
Scale: Half size.
Annotation: "Exm. J.D.B. 27-1-/75."

26. Proposed Adjustable Coupling for Twin Screw Ferry Boat Huron. Grand Trunk Railway Mechanical Dept. drawing No. 1276. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

27. Regulator Gear. Ferry Boat Huron. Grand Trunk Railway Drawing No. 1344. n.p.: [1875]. Colour. Linen.
Scale: Half size.
Annotation: "Exm. J.D.B. 31-7-/75."

28. Section of New Ferry Boat at Smoke Stacks Shewing Tracks. n.p.: n.d. Colour. Linen.

29. Design for Oscillating High Pressure Engines for Flying Ferry Steamer at Point Edward. G.T.R. Co. n.p.: 1859. Tracing paper.
Scale: 3/4 inch = 1 foot.
Annotated: "J.D.B. Aug. 67."

Location: D249 F1

30. Ferry Steamer at Sarnia. G.T.R. Co. n.p.: n.d. Colour. Tracing paper.
Scale: 3/8 inch = 1 foot.
Drawings Show: Detail of Apparatus for Working the vessel as a flying ferry.
Annotation: "removed as useless. J.D.B."

(Vol. 62 cont'd)

Location: D564 F2

31. Pair of Screw Engines. Gilbert for G.T.R. Ferry Steamer, Fort Erie. n.p.: 1872. Tracing paper.
Scale: 1/4 inch = 1 foot.

32. Roberts, H., Cleveland, Proposed Coupling for S.S. Huron. [Cleveland?]: 1875. Colour. Tracing paper.
Annotation: "Alterations in re proposed by J.D.B. to lesson the total Length. 27-1-/75."

33. Screw Engines. Cyl's. 30" dia x 30" Stroke. n.p.: 1870. Colour. Tracing paper.
Scale: 1/4 inch = 1 foot.
Annotations: "E.E. Gilbert"
"Richard Eaton"
"Witness to Signature F.H. Brydges"

Location: D249 F1

34. [Loading and Unloading Mechanism]. n.p.: n.d. Colour. Linen.
Scale: 3/4 inch = 1 foot.
1/4 Size.

Location: D564 F2

35. J. Wigham, Richardson & Co., Ferry Steamer "Lillebelt". for the Administration of the Danish Government Railways. Supplement to The Engineer, Dec. 6, 1872. Portfolio of Working Drawings No. 59. Colour. Tracing paper.

VOLUME: 63 - (Location: D564 F3)

1. Boiler Clack Box. G.W.R. n.p.: 1866. Colour. Tracing paper, mounted on cloth.
Scale: Full size.
Bears the initials "G.B."

(Vol. 63 cont'd)

2. Clack Box for Convertable Engines. Grand Trunk Railway Mech. Dept. Drawing No. 1056. n.p.: 1872. colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

3. 4 In. Hydraulic Clack Valve. G.W.R. No. 2442. n.p.: n.d. Colour. Tracing paper.
Scale: Full Size.

4. 4 In. Hydraulic Clack Valve. n.p.: n.d. Colour. Tracing paper.

5. [Clack Boxes. Wilson's and Hawthorn's]. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

Location: D249 F1

6. Pump for Windsor Engine Shed. L. and S.W.R.-Way. n.p.: 1852. Tracing paper.
Scale: full size.
3 inches = 1 foot.

Location: D564 F3

7. G.T.R. Pump No. 791. n.p.: 1873. Colour. Tracing paper.
Scale: 1/2 size.
Annotation: "half size Copy - J.D.B. 10-6-/73."

8. G.T.R. Pump for Port Huron. No. 203. n.p.: n.d. Colour. Tracing paper.
Scale: half size.

9. Plan of Pumps at Northam. London and South Western Railway. England: 1854. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

10. Pumping Gear. n.p.: n.d. Writing paper.

(Vol. 63 cont'd)

Location: D249 F1

11. Right Hand Pump. Convertible Engines W-X-Y-Z. Grand Trunk Railway Mechanical Dept. Drawing No. 972. n.p.: 1872. Colour. Linen.
Scale: half size.
full size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D564 F3

12. Coupled Engines No. 97. Swedish Government Railway. n.p.: n.d. Colour. Tracing paper.
Scale: Full Size.

13. Pump & Valve Spindle Guide for Engine F. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 Size.

14. [Valves]. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

15. Carrett Marshall & Co., Engineers, Sun Foundry, Leeds, Steam-Pump. Size No. 3A as per Fig. 3 As A Water Lift with a 6 H.P. Cornish Boiler. Leeds: 1870. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.

16. Feed Pump for a 30 H.P. Beam Engine. Supplement to The Engineer, April 30, 1875. Portfolio of Working Drawings No. 88. Tracing paper.

17. Banbury Sewage Pump Valve. From Engineering. Vol. 1. 1870. p. 230. Tracing paper.

18. Bullock Pump. From Engineering. Vol. 1. 1870. Tracing paper.

19. Vavles for Double Acting Pump. From Engineer. April 19, 1872. p. 273. Tracing paper.

20. Pump Valves. From Engineering. Vol. 1. 1870. p. 2301/2. Tracing paper.

(Vol. 63 cont'd)

21. [Drawing of unidentified pump and power transmission system]. n.p.: n.d. Tracing paper.

22. [Unidentified drawing]. n.p.: n.d. Tracing paper.

VOLUME: 64 - (Location: D564 F4)

1. Mack Injector Co., Boston, Mass., Class A, B & C "Torpedo Injector." Boston: n.d. Blueprint.

2. Injector. Grand Trunk Railway Co. Montreal: [186?]. Writing paper.

3. Injector and Feed Valve. G.W.R. n.p.: n.d. Tracing paper. Scale: 1 1/2 inches = 1 foot.

4. Injector for Filling Tenders. n.p.: n.d. Tracing paper. Scale: 1/2 size.

5. Reynolds, Edward, Water Jet Pump-Don Heel Works Sheffield. (Vickers). Sheffield: 1867. From Engineering, Vol. 2, 1867. p. 407. Tracing paper.

VOLUME: 65 - (Location: D564 F4)

1. Accumulator House. Hockley Station. W. No. 59 and 60. n.p.: 1871. Colour. Tracing paper. Scale: 3/8 inch = 1 inch.

2. John Abbot & Co. Ltd., Steam and Hydraulic Engineers, Park Works, Gateshead-On-Tyne, Design of Accumulator with Ram 17" Diar. 17 feet Stroke. Gt. Western Railway, Swindon. Gateshead-On-Tyne: 1879. Tracing paper. Scale: 3/8 inch = 1 foot.

VOLUME: 71 - (Location: D564 F4)

1. Grain Elevator. Midland R.R. Ground Plan. Plan of Bins. Midland, Can.: n.d. Colour. Linen.
Scale: 1 inch = 8 feet.

2. Grain Elevator. Midland R.R. Cross Section. Longitl. Section. Midland: n.d. Linen.

Location: D249 F2

3. Grain Elevator. Midland R.R. Midland: n.d. Linen.
Drawings show: Bucket and driving pulleys.
Engine shaft.
Inside leg.

4. Grain Elevator. Midland R.R. Midland: n.d. Line.
Drawing similar to item 3 but dith different Dimensions.

VOLUME: 72 - (Location: D564 F4)

1. Smulders, A.F., Rotterdam, Engineer, Dredger and Hydraulic Spoil Elevator & Conveyor on the Baltic Ship Canal. Supplement to The Engineer, n.d. Portfolio of working drawings No. 2. New Series. Tracing paper.
Scale: 1/8 inch = 1 foot.

VOLUME: 73 - (Location: D564 F4)

1. Hawkshaw, John, Engineer, East and West India Docks. South Dock. Warehouse Roof. Supplement to The Engineer, Nov. 1, 1872. Portfolio of Working Drawings No. 58. Tracing paper.
See Barnett Manuscript Box Vol. 73 for related description.

2. Hawkshaw, John, Engineer, East and West India Docks. South Dock. Warehouse Roof. Supplement to The Engineer, Jan. 3, 1873. Portfolio of Working Drawings No. 60. Tracing paper.
See Barnett Manuscript Box Vol. 73 for related description.

(Vol. 73 cont'd)

3. Hawkshaw, John, Engineer, East and West India Docks. The South Dock Passage Gates. (Details of Sluices &c.) Sheet No. 2. Supplement to The Engineer, Oct. 10, 1873. Portfolio of Working Drawings No. 69. Tracing paper.

4. Burntisland Dock. (Details). Sheet 1. Supplement to The Engineer, June 27, 1879. Portfolio of Working Drawings No. 113. Tracing paper.

5. Burntisland Dock. (Gates). Sheet 2. Supplement to The Engineer, July 25, 1879. Portfolio of Working Drawings No. 114. Tracing paper.

6. Burntisland Dock. Entrance Masonry. Sheet 3. Supplement to The Engineer. Portfolio of Working Drawings No. 115. Tracing paper.

7. L. Coiseau & J. Cousin, Ingénieurs, Constructeurs, Paris, Bruxelles, Ville D'Anvers. Construction de L'Ecluse Maritime du Nord. Anvers: n.d. Heavy paper.

VOLUME: 75 - (Location: D564 F4)

1. Steam Counter Pressure Brake as Applied by John Headden of Roger Loco Works, Patterson, N.J. Patterson, N.J.: 1886. Colour. Tracing paper.

VOLUME: 77 - (Location: D564 F5)

1. Brooman's Patent Bunting Apparatus. n.p.: n.d. Tracing paper.

2. Draw Spring. G. Spencer's Patent. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

(Vol. 77 cont'd)

3. R. Eaton's Patent Applied As Assistant Bearing Spring Under the Centre of the Laminated Steel Spring. Sole Licencees: George Spencer & Co., 6 Cannon Street West, London E.C. n.p.: n.d. Colour. Tracing paper.
Scale: 1/4 size.

4. Application of No. 1 Cone as Check Spring As Used on the Great Eastern Railway Etc. Sole Licencees: George Spencer & Co., 6 Cannon St. West, London E.C. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 size.

5. P.R. Hodge's Patent Compound Springs - Using R. Eaton's Patent India Rubber Lamina. As Used on the London Brighton & South Coast Railway. Sole Licencees: George Spencer & Co. n.p.: n.d. Tracing paper.
Scale: 1/8 size.

6. R. Eaton's Pat. 10 Springs to 1 Set for Carriage Body Frame, as Used on the Great Eatern Railway. n.p.: n.d. Colour. Tracing paper.

7. Sheet of Pressures of Richard Eaton's Patent Laminated India Rubber Spring (of Various Thicknesses.) n.p.: n.d. Tracing paper.

8. Standard Leading, Driving, Trailing, Poney, and Engine Truck Springs. G.T.R. Mechl. Dept. Sheet No. 2616. n.p.: 1888. Blueprint.
For related correspondence See Barnett Manuscript Box Vol. 77.

9. Spring & Spring Links for Leading & Driving Wheel. 4 Foot Wheel Goods Tank Engine. n.p.: n.d. Tracing paper.
Bears Initials: "J.D.B."

10. Details of Spring-hangers. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 size.

11. Spring Gear. Landy[?]--Intercolonial. n.p.: n.d. Tracing paper.

12. Wagon Bearing Spring Standard No. 27. G.W.R. Swindon: n.d. Colour. Tracing paper.

(Vol. 77 cont'd)

13. Mode of Applying "Steel Springs" to Engs. of Pt. St. Charles Design. Drawing No. 832. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Signed by Richard Eaton.

14. Adjustment of Compensating Levers. n.p.: n.d. Tracing paper.

15. Alteration to Spring & Axle Box of Inside Bearing. Beyers Goods Engines for G.W.R. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears initials "G.B."

16. Between Engine & Tender Buffers. (G. Spencer's Patent "Conical" India Rubber Spring.) and Richard Eaton's Patent Laminated India Rubber Spring. Sole Licencees: George Spencer & Co., 6 Cannon St., West, London E.C. n.p.: n.d.
Colour. Tracing paper.
Scale: full size.

17. Old Goods Engine. 5ft. Wheels. Broad Gauge. n.p.: 1864.
Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears initials: "G.B."

18. Box Draw Spring for Trucks. 2 in. Stroke. No. 6. Sole Licencees: George Spencer & Co., 6 Cannon St. West, London E.C.n.p.: n.d. Colour. Tracing paper.
Scale: 1/3 Size.

19. Portland Co., Locomotive Driver Spring. Locomotive Truck Spring. n.p.: 1879. Blueprint.
See Barnett Manuscript Box Vol. 77 for related correspondence from Barnett. 1887.

20. Tender Spring. T.G. & B. Railway. No. 190. m.p.: 1871.
Colour. Linen.

21. Tender Spring Nos. 79 to 90. n.p.: n.d. Tracing paper.

22. Spring Rubbing Cheeks for Pass. & Goods Engines. G.W.R. (Introduced 1863). Broad Gauge. n.p.: 1864. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 77 cont'd)

23. Buffer Stops. L. & S.W.R. Buffer Stop. Supplement to The Engineer, July 5, 1878. Portfolio of Working Drawings No. 109. Tracing paper.
Scale: 1/2 inch = 1 foot.

24. Buffer Stop. L.C. & D.R. Supplement to The Engineer, Sept. 6, 1878. Portfolio of Working Drawings No. 110. Tracing paper.

VOLUME: 78 - (Location: D564 F6)

1. [Clark's] Continuous Chain Brake. Capable of Operating Over Ten Carriages at Once. Birmingham: n.d. Tracing paper.
Lith: Martin Billing, Son & Co.
Scale: 1/2 inch = 1 foot.

2. [Brake]. n.p.: n.d. Colour. Tracing paper.

3. [Brake]. n.p.: n.d. Colour. Tracing paper.

VOLUME: 79 - (Location: D249 F2)

1. Motion for New Engine "Cudworth". From Drawing No. 1388 and Supplement. Office Copy. n.p.: 1876. Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D564 F6

2. Reversing Lever. Landy. Intercolonial. n.p.: n.d. Tracing paper.

3. Loco Details. Valve Gear. R. Eaton. n.p.: n.d. Colour. Heavy paper.

(Vol. 79 cont'd)

4. Reversing Shaft and Details of Motion for Engines W. X.Y.Z. Grand Trunk Railway Mechanical Dept. Drawing No. 969. n.p.: n.d. Colour. Line. Bears rubber stamp: "R. Eaton, Supt."

5. Link Motion for Engines XW.X.Y.Z. Grand Trunk Railway Mechanical Dept. Drawing No. 992. n.p.: n.d. Colour. Linen.
Scale: 1/2 size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D249 F2

6. Reversing Shaft & Rod for Engine F. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 size.

Location: D564 F6

7. Reversing Lever & Fulcrum for Equalizing Lever - Engine "F". n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 size.

8. Valve Rod. 4 ft. Wheel Tank Engine. n.p.: 1866. Tracing paper.
Scale: full size.
Bears initials "G.B."

9. Motion Valve for New Passenger Engines. Also for W.X.Y.Z. Convertable Engines. Grand Trunk Railway Mechanical Dept. Drawing No. 766. n.p.: 1872. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

10. Eccentric & Strap for Engines Nos. W.X.Y.Z. Grand Trunk Railway Mechanical Dept. No. 602. n.p.: 1872. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

(Vol. 79 cont'd)

Location: D249 F2

11. Eccentric & Eccentric Strap. 5 ft. Wheel Goods Engines. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: full size.

Location: D564 F6

12. Reversing Spring. G.W.RY. Placed on Reversing Shaft. n.p.: n.d. Tracing paper.
Scale: full size.
Bears initials "G.B."

13. Valve Rod. Bracket and Link. 5 ft. Wheel Goods Engines. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: full size.
Bears initials "G.B."

14. Rocking & Reversing Shaft Brackets for Convertable Engines. Grand Trunk Railway Mechanical Dept. Drawing No. 971. n.p.: 1872. Colour. Linen.
Scale: 1/2 size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D249 F2

15. Reversing Lever for New Engines W.X.Y.Z. Grand Railway Mechanical Dept. Drawing No. 578. n.p.: 1872. Colour. Linen.
Scale: 1/2 size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D564 F6

16. New Mixed Traffic Engine. Eccentric Strap. South Western Railway, Nine Elms Works, London. Copy Drawing No. 6684. London, Eng.: 1894. Colour. Heavy paper.
Scale: full size.

(Vol. 79 cont'd)

17. Curve from Hypothetical Eccentric.... Curve from Joy's Gear.... Radial Valve Gear. Nos. 2 & 3. n.p.: n.d. Colour. Linen.

18. Radial Valve Gear. No. 4. n.p.: n.d. Linen. Annotation: "Checked J.D.B. 23-3-5"

19. Radial Valve Gear. No. 1. n.p.: n.d. Colour. Linen. Annotation: "Checked J.D.B. 23-3-5"

20. Witson's Patent Valve Gear with Single Valve as Applied to Chicago & Alton Standard Engine. Class "A". Bloomington: 1886. Blueprint.
Scale: 2 inches = 1 foot.

Location: D249 F2

21. Witson's Patent Valve Gear with Single Valve as Applied to Chicago & Alton Standard Engine. Class "D". Bloomington: 1887. Blueprint.
Scale: 3 inches = 1 foot.

22. Steam Engine Expansive and Reversing Valve Gear with Independent Admission and Release Valves as Applied to Chicago and Alton Standard Engines Class "A". Bloomington: 1886. Blueprint.
Scale: 1 1/2 inches = 1 foot.

23. Table Shewing Working of the Slide Valve Fitted with Expansion Gear. n.p.: n.d. Tracing paper.

24. Valve and Pump Gear. L. & S.W. Ry. London: 1866. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials "G.B." and "J.D.B."

Location: D564 F7

25. Sharp Stewart & Co., Manchester, T. Hackworth's Valve Gear. Manchester: 1858. Colour. Tracing paper.
Scale: 1/4 Size.

(Vol. 79 cont'd)

26. Diagram of "Allens" Link Motion. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

27. Allan Valve Gear Goods Engine. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

28. Diagrams of "Allan's" Link Motion. L. & S.W. R'way. London: ca. 1855. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D249 F2

29. Gearing for Goods Engines Bison, Buffalo, Elephant, and Rhinoceros. S.W.R. n.p.: ca. 1856. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D564 F7

30. Expansion and Reversing Gears. England: 1845. Tracing paper.

31. Link Motion. W-M-Ry. n.p.: 1863. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

32. Sharps Valve Gear. n.p.: 1857. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

33. Goochs Link Motion. N.Y.G.W.R. n.p.: n.d. Tracing paper.

Location: D249 F2

34. Valve Gear Generals. G.W.R. n.p.: 1860. Colour. Tracing paper.
Scale: 2 inches = 1 foot.

(Vol. 79 cont'd)

Location: D564 F7

35. Link Motion (Beyer). G.W.R. 5 ft. Wheel Goods Engines.
n.p.: 1866. Tracing paper.

36. Proposed Motion 4 ft. Wheel Tank. With 3 in. Valve Spindle Centres. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials "G.B."

37. Valve Motion. 7 ft. Passenger. G.W.R. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

38. Motion. 7 ft. Passenger Engine. G.W.R. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears initials "G.B."

39. Position of Eccentrics for Direct & Indirect Motion Viewed from right side of Engine. n.p.: 1867. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials "J.D.B."

Location: D565 F1

40. Valve Gear. G.W.R. No. 1. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

41. Valve Gear. G.W.R. No. 2. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

42. Valve Gear. G.W.R. No. 3. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

43. Valve Gear. G.W.R. No. 4. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 79 cont'd)

Location: D249 F2

44. Valve Motions. All full Forward Gear. G.T.R. Mech. Dept. No. 1339. n.p.: 1883. Linen.
Scale: full size.
Drawing used by J.D.B. to illustrate his valve gear talk.

Location: D565 F1

45. Eaton, R., Allan Valve Gear. L. & S.W. Rway. n.p.: n.d.
Tracing paper.
Drawing Used byJ.D.B. to illustrate his valve gear talk.

Location: D249 F2

46. Valve and Pump Gear. Tank Engines. G.W.R. n.p.: 1850.
Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Drawing Used by J.D.B. to Illustrate His Valve Gear Talk.

Location: D565 F1

47. Beyer, Peacock & Co., [Section of Steam Engine Including Piston & Exhaust Ports]. Gorton[?]: 1856. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

48. [Drawing of unidentified steam engine valve assembly with reversing rod]. n.p.: n.d. Tracing paper.

49. Movable Suspension Link with Compensation Slot for Horizontal Motion of Radius Link. n.p.: n.d. Writing paper.
On reverse: Bridge Over Track at Pt. St. Charles.

50. Pius Fink's Link Motion. n.p.: n.d. Writing paper. On reverse: Heusinger von Waldegg Link Motion.

51. [Unidentified link motion]. eccentric is opposite to crank.
n.p.: n.d. Writing paper.

(Vol. 79 cont'd)

52. De Michele, V., Combined Reversing Gear. Newcastle-Upon-Tyne: [1868]. Tracing paper. From Engr. Aug. 14,1868. p. 124.

53. Mississippi Valve Motion. From Engineering, March 1, 1872. p. 138. Tracing paper.

54. Selfe, Norman, Link Motion. Steam Launch. Sydney, N.S.W.: 1871. Tracing paper. From Artizan, Dec. 1871.

55. Selfe, Norman, Link Motion for Screw Engines. Sydney, N.S.W.: 1871. Tracing paper. From Artizan, Jan. 1871.

56. Drawings, Etc. Used by J.D.B. Illustrating Valve Gear Talk. Model. n.p.: n.d. Heavy paper.

57. Grose, S., Engineer, Cornish Engine Series No. 8. Valve Gear of a 90 in. Pumping Engine - Grenver Mine. Supplement to The Engineer, April 7, 1871. Portfolio of Working Drawings No. 43. Tracing paper.

VOLUME: 80 - (Location: D565 F2)

1. Willson's Patent Water Closet Ventilator. n.p.: n.d. Blueprint.
Scale: 1 1/2 inches = 1 foot.

2. Hose Connection. n.p.: n.d. Tracing paper.

3. Ventilator for No. 15 First Class Car. Grand Trunk Railway Drawing No. 504. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

4. Details for Willson's Water Closet Ventilator. n.p.: n.d. Blueprint.
Scale: 3 inches = 1 foot.

5. Eaton, R., [Ventilation System for R'way Car]. Pt. St. Charles: n.d. Linen.

(Vol. 80 cont'd)

6. F.A. Barbey & Co., Boston, Sole Agents, The Hampson Flexible Steam Joint, as Applied to Engines on B. & A. R.R. Boston: n.d. Lith: Geo. H. Walker & Co.

7. Westinghouse, The Westinghouse Quick-Action Brake. and The Standard Hose of the World. The Peerless Hose Nipple Cap.... From Railroad Gazette, June 10, 1898. Colour. Tracing paper.

VOLUME: 81 - (Location: D249 F2)

1. Chicago & Alton Machine Shop. Bloomington, Ill.: 1883. Blueprint.
Scale: 1/16 inch = 1 foot.
Drawings show: Elevation of south side.
Plan view of machine shop.
Plain view of second story.
Elevation of east end.

Location: D565 F2

2. [Elevation of unidentified Shop]. n.p.: n.d. Linen.

3. Trevithick, F.H., Engineer, General Arrangement of Small Locomotive Workshops. London: 1873. Supplement to The Engineer, March 2, 1873. Portfolio of Working Drawings No. 63. Tracing paper.
Scale: 1/8 inch = 1 foot.

VOLUME: 83 - (Location: D249 F2)

1. Plan of Moss Break. G.W.R. Traced from Mr. Mackintosh's Drawing No. 19. n.p.: 1860. Colour. Tracing paper.

VOLUME: 90 - (Location: D565 F2)

1. Cross Sections of the Aqueduct Showing the Thickness of the Ice and Area of Waterway on 6th March 1866. Montreal: 1866.
   Scale: 1 inch = 4 feet.

2. [Map of Stratford, Ontario. Water Supply for the G.T.R.]. Stratford, Ont.: 1880.
   See Barnett Manuscript Box Vol. 90 for correspondence and clippings related to G.T.R.'s use of Stratford water contributing to typhoid problem.

VOLUME: 92 - (Location: D565 F2)

1. Plan of Present Mains and Valve System Adjacent Pumping Station. [Stratford, Ont.?]: n.d.
   Scale: 1 inch = 20 feet.

VOLUME: 95 - (Location: D565 F2)

1. Nystrom, J.W., Engineer, A Six Gun Armored Corvette. U.S. Naval Dept. From The Artizan, Aug. 1, 1863. Tracing paper.

VOLUME: 96 - (Location: D565 F2)

1. Coal Platform on the E. & C. Div. N.C. Railway. n.p.: n.d. Blueprint.

(Vol. 96 cont'd)

Location: D249 F2

2. Truck for Delivering Coal to Locomotive Tenders on the E. & C. Div. N.C. Railway. n.p.: n.d. Blueprint.
Annotation: "J.D.B. copy of Drawing No. 23 from J. Strode Accompanying Coal Report to M.M.A. 1887."

Location: D565 F2

3. G.T.R. Mechl. Dept. 5 Ton Coal Chute. Pt. Edward. Drawing No. 1922. Drawer No. 8. n.p.: 1882. Blueprint.

4. Midland Railway Coaling Stage. Tracing No. 77/76. n.p.: n.d. Colour. Tracing paper.
Scale: 1/4 inch = 1 foot.

5. Sketch of Approach to Susquehanna Coaling Stages. n.p.: n.d. Tracing paper.
Includes list of timber required for the above.
See Barnett Manuscript Box Vol. 96 for related correspondence.

6. Sketch of One Shoot. [Susquehanna Coaling Stages]. n.p.: n.d. Tracing paper.
Includes List of Timber Required for Sixteen of the Above.
See Barnett Manuscript Box Vol. 96 for related correspondence.

VOLUME: 98 - (Location: D565 F2)

1. New Loco Shops at Stratford. G.T.R. Mechl. Dept. Stratford, Ont.: 1888. Colour. Linen.
Scale: 1 inch = 100 feet.
Signed by Herbt. Wallis.

VOLUME: 101 - (Location: D565 F2)

1. The Berlin Meter Co., [Meter]. n.p.: n.d. Blueprint.

(Vol. 101 cont'd)

2. Builders Iron Foundry, Providence, R.I., Type M Chart Recorder for Venturi Meter. Providence: 1907. Blueprint.

3. Simplex Valve & Meter Co., Philadelphia, Sketch of Setting of Meter Tube. Type G. Philadelphia: n.d. Blueprint.

VOLUME: 106 - (Location: D565 F3)

1. General Details of No. 1 Stationery Engine. Grand Trunk Railway Mechanical Dept. Drawing No. 1020. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.

2. Standard Brass Plug Cock for Inside Fire Hydrants and Engine Pits. G.T.R. Mech. Dept. Drawing No. 2565. n.p.: 1887. Blueprint.

3. Montyn, J.J., Rotterdam, Oscillating Engine. 10 H.P. From Artizan, Jan. 1, 1870. Tracing paper.

4. 6 in. Valve. G.T.R. n.p.: 1868. Colour. Tracing paper.
Scale: full size.

5. 6 in. Sluice Valve. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 1/2 size.

6. Cylinder Steam Blow Thro. Plug Valve. From 57 Portfolio Engr., Oct. 4, 1872. p. 224. Tracing paper.

7. Wilsons Patent Plug Valve. From Engineer, 179. March 17, 1871. Tracing paper.

8. Warners Patent Stop Valve. From Eng. 2, 1867. p. 174. Tracing paper.
Annotation: "This is an Old Plan & Patent Should Not Have Been Issued."

9. Snook Improved Cock. From Engineer, Vol. 1, 1869.

10. [Pehrens?] American Rotary Engine. Paris Exhibition. From Engineer, 17/7 1868. p. 50. Tracing paper.

(Vol. 106 cont'd)

11. Relief Valve. Copied from Portfolio of Drawings No. 57 from Engineer, Oct. 1872. p. 22. Tracing paper.
Scale: 1/2 size.

12. Reducing Valves. "Farron" Patent No. 2315, 1870. From Engineering, Aug. 25, 1871. p. 116. Tracing paper.

13. Water Main Valve. Paris Bois de Boulogne. From Engineer, Aug. 21, 1868. Tracing paper.

14. Old German Sluice Valve. From Engineer, Vol. 1, 1868. p. 242. Tracing paper.

15. Rolling Mill Engine. 42 Inch Cylinder. (Details). Sheet 1. Supplement to The Engineer, Sept. 25, 1874. Portfolio of Working Drawings No. 76. Tracing paper.
Scale: 1 inch = 1 foot.

16. Rolling Mill Engine. 42 Inch Cylinder. (Details). Sheet 2. Supplement to The Engineer, Oct. 2, 1874. Portfolio of Working Drawings No. 77. Tracing paper.
Scale: 1 inch = 1 foot.

17. Rolling Mill Engine. 42 Inch Cylinder. (Details). Sheet 3. Supplement to The Engineer, Oct. 9, 1874. Portfolio of Working Drawings No. 78. Tracing paper.

18. Rolling Mill Engine. 42 Inch Cylinder. (Details). Sheet 4. Supplement to The Engineer, Oct. 16, 1874. Portfolio of Working Drawings No. 79. Tracing paper.

19. Semi Portable Coal Lifting Engine. L. & S. W. R'way. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bear initials "G.B."

VOLUME: 107 - (Location: D565 F3)

1. Work for Air Pump. Montreal: n.d. Blueprint.
Scale: full size.
Drawings show: Elevation of cylinder.
Plans of plunger and cylinder.

(Vol. 107 cont'd)

2. Proposed Improvement in the Pumps of the Steam Engines. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

3. Montreal Water Works. Drawing of Bottom of Air Vessels. Montreal: 1865. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "Louis Lesage. Exm. J.D.B. 26-2/70."

Location: D249 F2

4. Bottom of Air Vessel and Valve to be Renewed at the Wheel House of the Montreal Water Works. Montreal: 1865. Tracing paper.
Scale: 1 inch = 1 foot.
1 1/2 inches = 1 foot.

Location: D565 F3

5. Davey, H., Engineer, Cornish Engine Series X. Pumping Engine. Supplement to The Engineer, Dec. 1, 1871. Portfolio of Working Drawings No. 50. Tracing paper.
Scale: 1/2 inch [1 foot.

VOLUME: 108 - (Location: D565 F4)

1. Gilbert, W.W., Steam Pump. No. 4. [Montreal]: 1874. Colour. Linen.

2. Gilbert, W.W., Steam Pump No. 4. Montreal: n.d. Colour. Linen.
Annotation: "Exm. J.D.B. 23-7-/75."

3. Gilbert, W.W., Steam Pump. No. 4. Montreal: n.d. Colour. Linen.

4. Soames & Evans, Morden Iron Works, East Greenwich, Donkey Pump. No. 1. East Greenwich: 1858. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

(Vol. 108 cont'd)

5. Direct Action Steam Pump. n.p.: n.d. From G.T.R. Tracing paper.
Scale: 3 inches [1 foot.

Location: D249 F2

6. Donkey Pump. L. & S.W. Design of Pumping Engine. n.p.: 1853. Colour. Tracing paper.

Location: D565 F4

7. 4 H.P. Donkey Pumping Engine. Supplement to The Engineer, March 1, 1872. Portfolio of Working Drawings No. 53. Tracing paper.

VOLUME: 109 - (Location: D565 F4)

1. Stothert & Pitt, Bath, Pitt's Patent Water Crane. From Engineer, June 3, 1870. p. 341, 342. Tracing paper.

2. Burgess & Key, London, Improved Water Lift. London: n.d. Light-weight white paper.

3. Self Acting Stop Valve for Water Tanks. n.p.: n.d. Tracing paper.
Scale: full size.

4. Water Pipe Fixed to Underside of Road Tank. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

5. Water Tank Feed Valve. G.W.R. Hereford: 1866. Colour. Tracing paper.
Scale: half size.
Bears the initials "G.B." and "J.D.B."

6. Water Crane. n.p.: n.d. Tracing paper.

(Vol. 109 cont'd)

7. 8 Inch Water Valve for Tanks. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 Size.

8. Valve for Water Tank. n.p.: n.d. Tracing paper.

Location: D249 F2

9. [Unidentified Valve]. n.p.: n.d. Colour. Tracing paper.

Location: D565 F4

10. Tank & Frame for Belleville New Steam Shed. n.p.: n.d. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.

Location: D249 F2

11. Foundations, Superstructure and Details. High Pressure Tank n.p.: 1874. Colour. Tracing paper.
Scale: 1/4 inch = 1 foot.
1/2 inch = 1 foot.
3/4 inch = 1 foot.
1 inch = 1 foot.
1 1/2 inches = 1 foot.
Half size.
See Barnett Manuscript Box Vol. 109 for related correspondence.

Location: D565 F4

12. M.R. & C. Co. Loco. Dept. Newport. Detail of Tank Over Boiler House. No. 14. n.p.: n.d. Colour. Tracing paper.
Scale: half size.
1 inch = 2 feet.

(Vol. 109 cont'd)

13. Framing for Supporting Tank for Brockville and Richmond. Grand Trunk Railway Mech. Dept. Drawing Engineers No. 35. n.p.: 1872. Colour. Linen.
Scale: 1/2 inch = 1 foot.
Bears rubber stamp: R. Eaton, Supt."

14. Frost Proof Tank. Cross Section. n.p.: n.d. Colour. Linen.
Scale: 1/2 inch = 1 foot.

Location: D249 F2

15. Water Tank for East End of Point St. Charles Yard on Victoria Bridge Abutment. n.p.: n.d. Colour. Linen.
Scale: 1/2 inch = 1 foot.
3 inches = 1 foot.

Location: D656 F4

16. Barnett, John Davis, Water Column. Hog Washing. Acton. Stratford, Ont.: 1882. Colour. Grand Trunk Railway Letterhead.

17. Ridout, Aird & Co., Engineers, Toronto, Haggas' Water Elevator. Sheet No. 1. Showing Elevator Applied to an American Locomotive. Toronto: n.d. Tracing paper.

18. Ridout, Aird & Co., Engineers, Toronto, Haggas' Water Elevator. Sheet No. 2. Showing Elevator Applied to an English Locomotive. Toronto: n.d. Tracing paper.

19. Ridout, Aird & Co., Engineers, Toronto, Haggas' Water Elevator. Tank Pipe Box at Side of Track. Sheet No. 3. Details. Toronto: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
1/4 size.

20. Ridout, Aird & Co., Engineers, Toronto, Haggas' Water Elevator. Sheet No. 4. Details. Toronto: n.d. White paper.
Scale: 1/4 full size.

(Vol. 109 cont'd)

21. Ridout, Aird & Co., Engineers, toronto, Haggas' Water Elevator. Sheet No. 5. Underground Tanks. Toronto: n.d. Tracing paper.
Scale: 1/2 inch = 1 foot.
Lith.: Rolph, Smith & Co., Toronto.

VOLUME: 113 - (Location: D565 F5)

1. "Goulette" Snow Scraper & Flanger. G.T.R. Mech. Dept. Drawing No. 1275. n.p.: 1885. Blueprint.
Scale: 3/4 inch = 1 foot.

2. Tilden's Frogs. Showing Clamps and How They Clamp the Frogs to the Track Rails. n.p.: n.d. Blueprint.

3. Dog and Wedge for puting Cars on Track. Grand Railway. Drawing No. 1175. n.p.: n.d. Colour. Linen.
Scale: 1/4 size.
1/2 size.
Annotation: "Exm. J.D.B. 28-3/74."

4. Knowles Iron Permanent Way. Patented. Used on Stourbridge Ry. From Engineer, April 29, 1870. p. 259. Tracing paper.

5. Addis, W.J., Engineer, Iron Permanent Way. Patented. From Engineer, Dec. 11, 1868. p. 450. Tracing paper.

6. [Iron Permanent Ways in Germany. Nassau Ry. and Austrian Souther Ry]. From Engineer, March 22, 1867. p. 248. Tracing paper.

7. Hoerder Iron & Steel Co., Westphalia, Rochuseen's Permanent Way. Brunswick Ry. From Engineer, 14-2/68. p. 111. Tracing paper.

8. Rochussen, T.A., Iron Permanent Way in Prussia. From Engineer, Jan. 13, 1871. p. 28. Tracing paper.

9. [Unidentified railway car mounted device, perhaps for puting car on rails]. n.p.: n.d. Tracing paper.

VOLUME: 114 - (Location: D565 F5)

1. Barnett, John Davis, Test Air Pump for Westinghouse Brake. Pattern 701. Stratford, Ont.: 1882. White writing paper.

VOLUME: 115 - (Location: D565 F5)

1. Grand Trunk Railway Split Switch General Plan of Details. n.p.: 1893. Blueprint.
   Scale: 1 inch = 1 foot.
   3 inch = 1 foot.

2. G.E.R. Stop Block for Yard Sidings. n.p.: n.d. Tracing paper.

3. Details of Standard Track, P. & E. R.R. [Penn. & Erie Railroad]. Erie, Pa.: n.d. Printed by Ashby & Vincent, Erie, Pa.

Location: D249 F3

4. Single-Throw Switch & Turnout, P. & E. R.R. Erie, Pa.: n.d. Printed by Ashby & Vincent, Erie, Pa.
   Attached: Bill of Ties for Single-Throw Switch....

5. Crossing & Turnouts P. & E. R.R. Standard. Erie, Pa.: n.d. Printed by Ashby & Vincent, Erie, Pa.
   Attached: Bill of Ties for Crossing and Turnouts.

6. Three-Throw Switch & Turnouts. P. & E. R.R. Standard. Erie, Pa.: n.d.
   Attached: Bill of Ties for Three-Throw Switch 7 Turnouts.

7. Double-Throw Switch & Turnouts, P. & E. R.R. Standard. Erie, Pa.: n.d. Printed by Ashby & Vincent, Erie, Pa.
   Attached: Bill of Ties for Double-Throw Switch & Turnouts.

VOLUME: 116 - (Location: D565 F5)

1. G.S. & W. Ry. Standard Brake Hanger & Block. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inch.

2. The American Brake Co., Cross Section of Malleable Iron Brake Shoe. n.p.: 1885. Blueprint.

3. Details of Cast Iron Work for Narrow Gauge Platform Cars.... Grand Trunk Railway Mech. Dept. Drawing No. 1036. n.p.: n.d. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D249 F3

4. Brake Gear for Tenders with Wrot Iron Frame & Brakes Required on Both Trucks. Grand Trunk railway Mech. Dept. Drawing Nos. 800. 802. n.p.: [1874]. Colour. Linen.
Scale: full size.
Annotation: "Exm J.D.B. 26-6/74."

Location: D565 F5

5. American Brake Co., Steam Driver Brake. n.p.: n.d. Blueprint.
Scale: 1 1/2 inches = 1 foot.

6. American Brake Co., Brake for Engine No. 64. New York Central and Hudson River R.R. Order 1045. n.p.: 1885. Blueprint.
Scale: 3 inches = 1 foot.

7. Joseph Beattie's Patent Boiler for the Combustion of Coal. Showing Also the Patent Apparatus for Warming the Feed Water. Four Wheels Coupled Tank Engine. n.p.: 1856. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

8. Brake Hanger Bracket. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

(Vol. 116 cont'd)

Location: D565 F6

9. Housings & Break. [sic.]. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inch.

10. Brake Shaft &c. Tenders for 5 ft. Wheel Goods Engines. G.W.R.
n.p.: 1865. Colour. Tracing paper.
Scale: full size.

11. Proposed Steam Brake for Shunting Engines. G.T.R. Mech. Dept. Drawing No. 1611. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

12. Manchester, Sheffield and Lincolnshire Railway, [Engine and tender brake parts]. [Manchester: 1886]. Linen.
Scale: 3 inches = 1 foot.
See Barnett Manuscript Box Vol. 116 for related correspondence. drawing sent to J.D.B. at Port Hope in response to his request.

13. [Sketches of railway car brake mechanism]. n.p.: n.d.
Lined paper. Dimensions given.

VOLUME: 118 - (Location: D565 F6)

1. Wood, John Jr., The Curtis and Wood Automatic Car Coupler.
Conshohocken, Pa.: n.d. Blueprint.
Scale: 1/2 size.

2. Haven[?], John, Improved Coupling for Rail Road Cars and Road Vehicles Drawn by Animals. Guelph: n.d. Tracing paper.

Location: D249 F3

3. Details of Drag Gear on Tender. 5 ft. Wheel Goods Engines. Stafford Road. G.W.R. [Swindon?]: 1865. Colour. Tracing paper. Bears initials: "G.B."

(Vol. 118 cont'd)

Location: D565 F6

4. Patent Car Coupler. n.p.: n.d. Colour. Tracing paper.

5. Narrow Gauge Freight Coupling. Great Western Railway of Canada. Hamilton, Ont.: 1869. Tracing paper.
Scale: full size.

6. The Sams Automatic Coupler. Details of Operating Lever. Aspen, Colo.: 1894. Blueprint.
Scale: 3 inches = 1 foot.
full size.

7. The Sams Automatic Coupler. n.p.: 1894. Blueprint.

8. The Gravity Car-Coupling Co., Colorado Springs, Colorado, The Gravity Car Coupler. Colorado Springs: n.d. Blueprint.
Scale: 3 inches = 1 foot.

9. Draw Bar & Buffing Apparatus. Hamilton: 1862. Colour. Linen.
Scale: half size.

10. Standard Bunter with India Rubber Spring. 6 inc. Dia. and 7 in Long Used in Box and Platform Cars. Grand Trunk Railway Mech. Dept. Drawing No. 937. n.p.: n.d. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

11. Drawbar with Spiral Spring. Grand Trunk Railway. Drawing No. 1251. n.p.: [1874]. Colour. Linen.
Scale: half size.

12. Arrangement of End-Platform, &c. for New First-Class Cars. Drawing no. 727. n.p.: [1866]. Colour. Linen.
Scale: quarter size.

13. Drawbar and Carrier for 63 Feet Sleeping Car. n.p.: Colour. Tracing paper.
Scale: 3 inches = 1 foot.

14. Coupling. Dog or Catch for Minera Incline. G.W.R. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

(Vol. 118 cont'd)

15. Slip Coupling. Midland Railway. Derby, England: 1869. Colour. Tracing paper. Scale: 1 inch = 1 foot.

16. [Unidentified coupling]. n.p.: n.d. Linen. Scale: 1/4 size.

17. [Car coupler with shock absorbing semi-elliptic leaf springs]. n.p.: n.d. Tracing paper.

VOLUME: 119 - (Location: D565 F6)

1. Wax Lamp for Centre of Car Roof. n.p.: n.d. Tracing paper. Scale: half size.

2. Lamp & Bracket for 57 Ft. Sleeping Car. Drawing No. 888. n.p.: n.d. Colour. Tracing paper. Scale: half size.

VOLUME: 120 - (Location: D249 F3)

1. Unidentified Railway Hand-Car. n.p.: n.d. Linen.

2. Raised Roof for Freight Conductors Van. Grand Trunk Railway Mech. dept. Drawing No. 1320. n.p.: n.d. Colour. Linen. Scale: 1 inch = 1 foot.

Location: D565 F7

3. Ballast Waggon. 3 Used on One Platform Bar. n.p.: 1873. Tracing paper. Scale: 1 1/2 inches = 1 foot.

4. Ballast Wagon. G.T.W. n.p.: n.d. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

VOLUME: 121 - (Location: D565 F7)

1. Seat for Emigrant Car. P.R.R. n.p.: 1876. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Office copy from W.M. Woods[?]. Exmd J.D.B. 6-10/76."

2. Seat for First Class Cars. Drawing 126. n.p.: [1866]. Colour. Linen.
Scale: 3 inches = 1 foot.

3. Iron Roof for Standard Narrow Gauge Box Cars. Grand Trunk Railway Mech. Dept. Drawing No. 1031. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
full size.
Bears rubber stamp: "R. Eaton, Supt."

4. Sliding Door for Standard Narrow Gauge Box Cars. Grand Trunk Railway Mech. Dept. Drawing No. 892. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

5. Grain Door for Standard Narrow Gauge Box Cars. Grand Trunk Railway Mech. Dept. Drawing No. 1034. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

6. Martin Grain Door and Details of Connections. Grand Trunk Mechl. Dept. Drawing No. 1257. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

7. McGuire Mfg. Co., Chicago, Frank S. Blanchard, Draftsman, McGuire Star Grain Door. Chicago: n.d. Blueprint. Patented 1884, 1885, 1887.

8. Lateral Motion Car Truck. G.T.R. Drawing No. 1028
n.p.: n.d. Colour. Linen.
[Lower right quarter of drawing has been removed].

Location: D249 F3

9. Wilson's Patent Truck Adapted to G.T.R. Platform Car. Drawing No. 880. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 121 cont'd)

Location: D565 F7

10. Tender Truck. n.p.: n.d. Colour. Linen.

11. Landy[?], Truck. Intercolonial. [G.T.R. ?]. n.p.: n.d. Tracing paper.

12. Cross Section of Centre Bearing Truck. G.T.R. Stratford, Ont.: 1873. Colour. Linen.
See Barnett Manuscript Box Vol. 121 for related correspondence.

13. Details of Centre Bearing Truck. Springs &c. G.T.R. Stratford, Ont.: 1873. Colour. Linen.
See Barnett Manuscript Box Vol. 121 for related correspondence.

14. Details of Centre Bearing Truck. Axle Boxes &c. G.T.R. Stratford, Ont.: 1873. Colour. Linen.
See Barnett Manuscript Box Vol. 121 for related correspondence.

15. Details of Centre Bearing Truck. G.T.R. Stratford, Ont.: 1873. Colour. Linen.
See Barnett Manuscript Box Vol. 121 for related correspondence.

16. Centre Bearing Truck. Side Elevation Section Thr' Inside & Outside Axle Boxes. G.T.R. Stratford, Ont.: 1873. Colour. Linen.
See Barnett Manuscript Box Vol. 121 for related correspondence.

17. Alteration in Mode of Carrying Truck Springs. Intercolonial Railway. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D249 F3

18. N.G. Car Truck 4 ft. 4 Inch Centres With Inside Brakes. Grand Trunk Railway Mech. Dept. Drawing No. 1044. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

(Vol. 121 cont'd)

Location: D565 F7

19. Plan of Truck for Freight Car. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F3

20. Standard Lateral Motion Truck For Box Car. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

21. Standard 6 Wheel Truck. G.T.R. Drawing No. 882. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

22. 6 Wheel Truck--7:4 Centres. G.T.R. Drawing No. 886. n.p.: 1869. Colour. Linen.

Location: D566 F1

23. G.T.R. Standard Bars. Swing Bolster of Truck. n.p.: [1872]. Tracing paper. Bears initials "J.D.B."

24. Alteration of Car Truck. n.p.: n.d. Colour. Tracing paper.
Scale: 1/4 size.

25. Truck for Passenger Cars. Grand Trunk Railway. n.p.: 1866. Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D249 F3

26. Standard N.G. Bar Truck 4 ft. 6 in. Centres with Inside Truck Brakes. Grand Trunk Railway Mech. Dept. Drawing No. 1044. n.p.: [1872]. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "21-6-/72 J.D.B."
Bears rubber stamp: "R. Eaton, Supt."

(Vol. 121 cont'd)

27. Six-Wheeled Truck for Passenger and Sleeping Cars. Grand Trunk Railway Drawing No. 775. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D566 F1

28. Pullman Car Truck. n.p.: n.d. Colour. Linen.

Location: D249 F3

29. Truck Lateral Motion. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D566 F1

30. Standard Lateral Motion Truck for Platform Cars. G.T.R. n.p.; n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

31. Pullman Car Truck. Grand Trunk Railway Mech. Dept. Drawing No. 1052. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inch.
Bears rubber stamp: "R. Eaton, Supt."

32. Standard Narrow Gauge Platform Car Truck. Grand Trunk Railway Mech. Dept. Drawing No. 1065. n.p.: [1873]. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm J.D.B. 15-4/73."

Location: D249 F3

33. Cast Iron Details. Hamilton: 1862. Colour. Linen.
Scale: half size.

(Vol. 121 cont'd)

Location: D566 F1

34. [Details of railway car frame & suspension with rubber buffers]. n.p.: n.d. Tracing paper.

VOLUME: 122 - (Location: D566 F1)

1. Sewall Safety Car Heating Co., New York and Portland, Me., Sewall Water Heater. New York: 1888. Blueprint. Scale: 1/8 size.

2. Sewall Safety Car Heating Co., New York and Portland, Me., Sewall Water Heater. New York: 1888. Blueprint. Scale: 3 inches = 1 foot.

VOLUME: 123 - (Location: D566 F1)

1. Plan of Floor Timbers in Double Drawing Room Car. Under Side. n.p.: n.d. Linen.

Location: D249 F3

2. Longitudinal Section. Side Elevation. [of unidentified railway passenger car.] n.p.: n.d. Linen.

3. Elevation. Plan [of unidentified railway passenger Ccar.] n.p.: n.d. Linen.
Scale: 3/4 inch = 1 foot.

4. Double Drawing room Car. No. 17. n.p.: n.d. Linen.

5. Plan. [of unidentified drawing room car.] n.p.: n.d. Linen.
Scale: 3/4 inch = 1 foot.

(Vol. 123 cont'd)

6. S. Car No. 27. n.p.: n.d. Colour. Linen.

Location: D566 F1

7. Saddle for Truss Rods for 57 ft. Sleeping Car. Drawing No. 884 n.p.: n.d. Colour. Tracing paper.
Scale: full size.

Location: D249 F3

8. New 57 ft. Sleeping Car. Drawing No. 887. n.p.: n.d. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.
Drawings include: Sectional plan...showing system of ventilation.
Arrangement of deafening boards.

Location: D566 F1

9. Transverse Section. Longitudinal Section. [of unidentified passenger car.] n.p.: n.d. Linen.
Scale: 3/4 inch = 1 foot.

10. Shooting-Carriage for the Emperor of Austria. The Vienna Exhibition. From The Engineer, Aug. 29, 1873.

Location: D566 F2

11. Vermont Central Place Car. n.p.: n.d. Colour. Sketch on writing paper.

Location: D249 F4

12. Internal Longitudinal Elevation. [of unidentified passenger car.] n.p.: n.d. Linen.
Scale: 3/4 inch = 1 foot.

(Vol. 123 cont'd)

Location: D566 F2

13. Cross Sections. End Elevation. [of unidentified passenger car.] n.p.: n.d. Linen.
Scale: 3/4 inch = 1 foot.

14. Half Section of Raised Roof for 57 ft. Sleeping Car. Drawing No. 885. n.p.: n.d. Colour. Tracing paper.
Scale: half size.

15. Seat for 57 ft. Sleeping Cars. Drawing 890. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

16. Half Design for Roof Panels for New Sleeping Cars. Grand Trunk Railway. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F4

17. Single Drawing Room Car. 58 Feet. No. 21. n.p.: n.d. Colour. Linen.

Location: D566 F2

18. Cross Section (Through Saloon) of (63 Feet) Sleeping Car. Drawing No. 751. n.p.: n.d. Tracing paper.
Scale: 3/4 inch = 1 foot.

Location: D249 F4

19. Castings for New 57 Foot Sleeping Car. Drawing No. 889. n.p.: n.d. Colour. Tracing paper.
Scale: 6 inches = 1 foot.

Location: D566 F2

20. Birch Panels (1/2 Inch Thick) for 57 Foot Sleeping Car. n.p.: n.d. Colour. Tracing paper.

(Vol. 123 cont'd)

Location: D249 F4

21. Sleeping Car Side. Drawing No. 883. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D566 F2

22. Standard Pullman Vestibule Car. Supplement to The Engineer, n.d. Portfolio of Working Drawings, New Series, No. 9. Tracing paper. Lith.: J. Swain & Son.

VOLUME: 124 - (Location: D566 F2)

1. Carriage Built for Prince of Wales. G.T.R. n.p.: 1866. Colour. Heavy paper. Drawing of pillars and panels.

Location: D249 F4

2. Holden, J., G.W.R. Carriage Offices, Paddington Station, Narrow Gauge First Class Carriage. G.W.R. London: 1866. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

3. Horse Box. Dublin: 1849. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

4. Iron Underframe for N.G. Compo. G.W.R. Swindon: 1880. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D566 F2

5. Pihl, Carl, C.E., Second Class Carriage (3 Feet 6 Inch Gauge) for Norwegian Railway. n.p.: n.d. Tracing paper.

(Vol. 124 cont'd)

6. Raised-Roof for First Class Cars. Drawing No. 616. n.p.: 1866. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
3 inches = 1 foot.

7. Corner and Door Posts for First Class Cars. Drawing No. 723. n.p.: 1866. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "By Her Majesty's Letters Patent The Vellum Tracing Cloth Sagars Patent Broughton Works Nr. Manchester."

8. Car Roof. Longitudinal Section. Transverse Section. n.p.: n.d. Linen.
Scale: 1 inch = 1 foot.

9. Construction of Upper Framing for New First-Class Car. Drawing No. 728. n.p.: 1866. Colour. Linen. Scale: 3 inches
Scale: 3 inches = 1 foot.

10. Car Bottom. 58 Feet. n.p.: n.d. Colour. Linen.

11. Mode of Fastening Sash in Raised-Roof in Sleeping & First-Class Cars. Grand Trunk Railway Drawing No. 648. n.p.: 1866. Colour. Linen.

Location: D249 F4

12. Framing for Passenger and Sleeping Cars. Drawing No. 881. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

Location: D566 F2

13. [Details of railway car with ventilator roof]. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
full size.
Drawing show: Cross section of car.
Unfinished longitudinal view of part of ventilator roof.
Inside finished view of part of ventilator roof.
Section of "Iron Carling."
Section of window.

(Vol. 124 cont'd)

14. 1st. Class Carriage Western Railway of France. Carriage. Supplement to The Engineer, Feb. 27, 1880. Portfolio of Working Drawings No. 118. Tracing paper.
Scale: 1/16.

15. 1st. Class Carriage Western Railway of France. Under Framing. Supplement to The Engineer, April 2, 1880. Portfolio of Working Drawings No. 119. Tracing paper.

16. English Royal Carriage. No. 1. G.W.R. n.p.: 1885. Tracing paper.
See Barnett Manuscript Box Vol. 124 for related correspondence.

17. English Royal Carriage. No. 2. G.W.R. n.p.: 1885. Tracing paper. See Barnett Manuscript Box Vol. 124 for related correspondence.

VOLUME: 125 - (Location: D249 F4)

1. Plan of Post Office Compartment. G.W.R. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.

Location: D566 F3

2. Pihl, Carl, C.E., Timber Truck. 3 ft. 6 in. Gauge. Norwegian Railway. n.p.: n.d. Tracing paper.

3. Wheels, Springs and Draw Gear for Freighters Wagons. (8 and 10 tons) G.W.R. Swindon: n.d. Tracing paper.
Scale: 3 inches = 1 foot.
1 1/2 inches = 1 foot.

4. Rowland Brotherhood's Patent Tilts. Railway Works, Chippenham, Wilts.: 1858. colour. Tracing paper.
Scale: 1 inch = 1 foot.

(Vol. 125 cont'd)

Location: D249 F4

5. 8 Tons Low-Sided N.G. Mineral Wagon. G.W.R. Carriage Offices, Paddington: 1866. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D566 F3

6. Locomotive Car. R.E. No. 1271. n.p.: 1875. Tracing paper.
Scale: 1 inch= 1 foot.

Location: D249 F4

7. Platform Car. Grand Trunk Railway. Specification. Drawing No. 369. n.p.: n.d. Linen.

Location: D566 F3

8. Flat Car 30 Ft. Long. St. L. J.M. & S. Ry. No. 1223. n.p.: n.d. Blueprint.
Scale: 1 1/2 inches = 1 foot.

9. P. & R. Platform Car. n.p.: n.d. Lined paper.
Scale: 1/4 inch = 1 foot.

Location: D249 F4

10. Standard Narrow Gauge Platform Car. Grand Trunk Railway Mech. Dept. Drawing No. 1029. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Signed by Richard Eaton.

Location: D566 F3

11. [Frame and truss designs for wagons. L. & N.W. Railway].
n.p.: n.d. Linen.

(Vol. 125 cont'd)

12. Eaton, Richard, [Detailed dimension drawing of railway car frame & undercarriage which appears to be made to carry another car; perhaps proposed as means of moving from one gauge to another gauge]. n.p.: n.d. Colour. Linen.

13. Brotherhood, Rowland, Patentee, Tilts for Railway Wagons &c. Chippenham: n.d. Tracing paper.

14. Ibbotson Brothers & Co., Globe Iron & Steel Works, Sheffield, Railway Carriage Ironwork, Springs, Buffers, &c. Sheffield: n.d. Lith.: Barras, Sheffield.
Drawings show: Railway carriage side elevation.
Railway carriage plan of underframe.
Railway carriage transverse section.

15. Narrow Gauge Hopper Coal Waggon. Great Western Railway. London: 1857. Lith.: H. Coley, M.E.

16. Ibbotson Brothers & Co., Globe Iron & Steel Works, Sheffield, Railway Wagon Ironwork. Sheffield: n.d. shows various hinges, chains, brackets, etc.

VOLUME: 126 - (Location: D566 F4)

1. Barnett, John Davis, Vacuum Brake Pan. n.p.: n.d. Colour. heavy drawing paper. Annotation: "Used for Brake Talk J.D.B."

2. Barnett, John Davis, Vacuum Brake. n.p.: n.d. Colour. heavy drawing paper. Probably used for J.D.B.'s brake talk.

VOLUME: 129 - (Location: D566 F4

1. Hazlehurst, James Nisbet, Con Eng'r., Special Flexible Joint Pipe. Board of Public Works. Rome, Ga.: n.d. Blueprint.

VOLUME: 130 - (Location: D566 F4)

1. Alteration of Heating Furnace at the Great Western Railway Works, Swindon, on J.R. Crampton's System. Westminster: 1869. Colour. Tracing paper.
   Scale: 1/2 inch = 1 foot.

2. New Furnace for Wheels & Plates. Nine Elms. n.p.: 1853. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.
   Bears initials "G.B."

3. New Boiler for Steam Hammer. n.p.: 1883. Colour. Tracing paper.
   Scale: 3/4 inch = 1 foot.
   Bears initials "G.B."

4. Forge Furnace for Steam Hammer. n.p.: 1864. Colour. Tracing paper.
   Scale: 1/2 inch = 1 foot.

5. Boiler-Makers Furnace. Stafford Road. G.W.R. Copy 1092. n.p.: 1865. Annotation: "J.D.B. 10/9/65."
   Scale: 3/4 inch = 1 foot.

6. Barnett, George, Furnaces. New Smithey. Stafford Road. G.W.R. n.p.: 1863. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.
   Annotation: "13/9/66 J.D.B."

7. Brass Foundry. Furnaces for Same. Dressing Shop &c. Stafford Road. G.W.R. n.p.: 1865. Colour. Linen.
   Scale: 3/4 inch = 1 foot.
   3/8 inch = 1 foot.

8. Brass Moulders Furnace. Point St. Charles. No. 78. [Pt. St. Charles: 1873]. Colour. Tracing paper.
   Scale: 3/4 inch = 1 foot.
   Annotation: "Copy J.D.B. 5/6/73."

9. Shaving Burning Furnace. Grand Trunk Railway Mech. Dept. Drawing No. 923. n.p.: n.d. Colour. Linen.
   Scale: 3/4 inch = 1 foot.
   Signed by R. Eaton.

(Vol. 130 cont'd)

10. Furnace for Bolt Making Machine. Stafford Road. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: 11/2 inches = 1 foot.
full size.

11. Sand Furnace. G.W.R. [Drawing] 602. n.p.: 1864. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.
Full Size.

Location: D249 F4

12. Sand Furnace. Grand Trunk Railway Mech. Dept. Drawing No. 1155. n.p.: n.d. Colour. Linen.
Scale: 1 inch = 1 foot.
Annotation: "Exm J.D.B. 3-9/74."

Location: D566 F4

13. Plan of a Scrap Furnace (Probably from Sunderland Engine Works). n.p.: n.d. Tracing paper.

14. Tyre & Plate Furnace. O.S. in Boiler Shop. n.p.: n.d. White lined paper.

15. Spring Makers Furnace. New Smithy. Stafford Road. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Annotation: "J.D.B. 9/66/."

16. Spring Furnace. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

17. Spring Furnace. Pt. St. Charles and Spring Furnace. Queens Wharf. No. 476. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "Copy J.D.B. 6-6/73."

(Vol. 130 cont'd)

18. Spring Hardening Trough. Drawing No. 837. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Signed by R. Eaton.

19. Case Hardening Furnace. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D566 F5

20. Corry, Edward, Agent, W. Bridges Adam's Patent Elastic Permanent Way. London: n.d. Colour. Blue drawing paper.

21. Cast Iron Chair and Railon Sleeper. G.W.R. n.p.: n.d. Tracing paper.

VOLUME: 136 - (Location: D566 F5)

1. Section of Krupp's Cast Steel Tyres on No. 59 Engine. Great Western Railway of Canada. Hamilton: 1863. Colour. Tracing paper.

2. Steel Co. of Canada, Ltd., Londonderry, N.S., 42 Inch Steel Tyred Car Wheel. Washburn's Patent. Londonderry, N.S.: 1877. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
See Barnett Manuscript Box Vol. 136 for related information.

3. Collins, J.B., Mech. Engr., Details of Standard Ten-Wheel Engine. P.R.R. Altoona: 1870. Colour. Linen.

4. Tyre Fastening. n.p.: n.d. Tracing paper.

5. W. Bridges Adam's Patent Spring Tires and Rails. n.p.: n.d. Colour. blue Drawing paper.

6. Wheels & Axles. Tandy[?] Intercolonial. C.T.R. 284 to 289 Copy. n.p.: n.d. Tracing paper.

(Vol. 136 cont'd)

7. Driving & Trailing Wheel for Freight Engine. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

8. Driving & Trailing Wheel for Passenger Engine. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

9. Driving & Trailing Wheel. Narrow Gauge. Broad Gauge. G.T.R. Engines W X Y Z. n.p.: n.d. Colour. Linen.
Scale: finished size.

10. Driving and Trailing Wheel. n.p.: n.d. Colour. Linen.
Scale: full size.
Upper right quarter of drawing is missing.

11. Midvale Steel Co., Philadelphia, Retaining Rings. for Fastening Tires to Centres. Philadelphia: 1886. Blueprint.

12. Woodbury, J.A., Elastic Packing Between Tyres & Bodies of Wheels. English Patent No. 837. Boston: 1870. From Engineering, Feb. 24, 1871. p. 139. Tracing paper.

13. Crank Pin for Engines W X Y Z. Grand Trunk Railway Mech. Dept. Drawing No. 976. n.p.: 1871. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

VOLUME: 139 - (Location: D566 F5)

1. 5.6 Wheel - Hollow Spoke. Rhode Island for G.W.R. n.p.: n.d. Tracing paper.

2. Standard 33 Inch Car Wheel. Drawing No. 1323. Grand Trunk Railway. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

3. Patent Shaft and Axletree Co., Ltd., Brunswick Wheel Works, Wrought Iron Wheel. n.p.: 1880. Tracing paper.
Scale: full size.

(Vol. 139 cont'd)

4. Plan of Apparatus Adopted by the "National Car Company" for Enabling Railway Cars to Run Upon Either Broad or Narrow Gauge with Through Freight Between Chicago and Boston.... n.p.: n.d. Colour. Heavy drawing paper.

5. C.D. Tisdale's Compromis Car-Truck. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

6. Lifting and Locking Apparatus for Changeable Cars. Also Apparatus for Securing the Laconia Wedge Spline. Drawing No. 909. n.p.: n.d. Colour. Linen.
Scale: half size.
full size.

7. Corry, Edward, Agent, W. Bridges Adams Patent Wheels and Radial Axle Boxes.... London: n.d. Colour. Blue drawing paper.
Scale: 3 inches = 1 foot.
1 1/2[?] inches = 1 foot.

Location: D249 F4

8. Wheel & Axle... for Changeable Gauge Cars. G.T.R. Drawing No. 961. n.p.: n.d. Colour. Tracing paper. Scale: full sixe.

Location: D566 F5

9. Richard Eaton's Method of Locking Wedges for C.G. Car Wheels. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

Location: D249 F4

10. Tyre Cutting Machine. G.W.R. Swindon: 1859. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
3/4 inch = 1 foot.
Signature: "E.B. Carroll"

(Vol. 139 cont'd)

Location: D566 F6

11. Phoenix Foundry Co., Lancaster, Machine For Taking Wheels from Under Locomotive Engine. Lancaster: 1852. Colour. Tracing paper.
Scale: 3/4 inch.

Location: D249 F4

12. Arrangement & Details fo Furnace, Retorts, Pumps, Reservoirs, Gas Rings, Cast Iron rings, &c. for Tire Setting House. (Pedrick & Ayer System) G.T.R. Mech. Dept. Drawing No. 2875. n.p.: 1891. Blueprint.
Scale: 1 inch = 1 foot.
3 inches = 1 foot
full size.

Location: D566 F6

13. Method of Operating Pedrick and Ayer's System of Tire Heating and Setting. Grand Trunk Railway Mech. dept. Drawing No. 2875A. n.p.: 1891. Blueprint.

14. Roberts Hub. Spoke Jammed on All 4 Sides. From Engineer 2, 1866. p. 191. Tracing paper.

15. Russels Patent Wheel. From Engineer 2, 1866. p. 115. Tracing paper.

16. Mansell Wooden Wheel. From Engineer, March, 1871. p. 191. Tracing paper.

17. Standard Tyre for Mansell's Patent Wrot Iron Wheel. Mech. Dept. Drawing No. 1357. n.p.: n.d. Colour. Tracing paper.
Scale: half size.
Annotation: "Exm J.D.B."

18. Mansell Wrot Iron Wheel. G.T.R. Drawing No. 1334. n.p.: n.d. Writing paper.
Scale: 2 inches = 1 foot.
half size.

(Vol. 139 cont'd)

19. Fry, Howard, Sketch of Wheel Drop[?]. n.p.: n.d. Tracing paper. Annotated.

20. 43 inch Mansell Wheel. G.T.R. Mech. Dept. Drawing No. 2357. n.p.: n.d.
Scale: 3 inches = 1 foot.
half size.
full size.
Bears rubber stamp: "Midland Railway of Canada... Jan 21, 1884, Port Hope."

21. 43 Inch Mansell Wheel. G.T.R. Mech. Dept. Drawing No. 1357. n.p.: n.d. Annotation: "Exm Geo. Holland 24/12/82."

VOLUME: 140 - (Location: D566 F6)

1. Drawings of H. Taylor and R. Eaton's Economical Petroleum and Other Hydro Carbon Utilising Apparatus.... n.p.: n.d. Colour. Tracing paper. Clipping attached. Annotation: "Experimented with in 1869 or /70."

VOLUME: 141 - (Location: D566 F6)

1. Detroit Lubricator Co., Detroit, No. 3 Triple Lubricator with Tippett Attachments. Pat. 1866. Detroit: n.d. Blueprint.

2. Furness Patent Lubricator. n.p.: n.d. Tracing paper. Bears rubber stamp: "Glasgow & South-Western Rly. Locomotive Dept. 25 Jan. 94. Engineer's Office."

Location: D249 F4

3. L.C. & D.R. Standard Bogie Passenger Engine Arrangement of Lubricators. Locomotive Dept. Longhedge Works. Copy No. 2356. n.p.: 1894. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 141 cont'd)

Location: D566 F6

4. Oiling Arrangement for Axleboxes & Motion. L. & Y. Ry. 5080. Horwich: 1894. Colour. Tracing paper.
Scale: full size.

5. New Mixed Traffic Engine. Oil Boxes. L. & S.W.R. Nine Elms Works. London: 1894. Colour. Heavy drawing paper.
Scale: full size.

6. Dewrance's Push In Lubricator with two Outlets for Steam Chests of Locomotives. L. & S.W.R. Nine Elms Works. London: 1894. Colour. Heavy drawing paper.
Scale: full size.
See Barnett Manuscript Box Vol. 141 for Method of Working.

7. A. Davis's Patent Lubricator. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

8. Lubricator. G.W.R. Swindon: 1865. Colour. Tracing paper.
Scale: full size.
Annotation: "J.D.B. 4/9/66."

9. Brass Grease Cock. n.p.: n.d. Tracing paper.
Scale: full size.

10. Self Oiling Spindle Step "Gear" of Boston. From Engineer, April 21, 1871. p. 265. Tracing paper.

VOLUME: 143 - (Location: D566 F6)

1. City Drainage. Plan of Sewers. n.p.: n.d. Colour. Heavy drawing paper.
Scale: 1 inch = 1 foot.

2. City Drainage. Plan of Sewers. n.p.: n.d. Colour. Heavy drawing paper.

3. Brunell, G.R., Sewers & c. From Engineer Architects and Contractors Pocket Book. London: 1871. Tracing paper.

VOLUME: 155 - (Location: D566 F7)

1. Engines Nos. 78, 30 & 32. Renewals. G.W.R. n.p.: n.d. Tracing paper.
Scale: 3/8 inch = 1 foot.
Annotation: "1st Engines Designed by G.B."

2. Vulcan Foundry Co., Shrewsbury & Hereford Railway Engine Nos. 1, 2, 3, 4 5 & 6 n.p.: 1853. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Average Price per Engine 1470L "

3. McConnell's Express. Southern Division. L. & N.W. 7 ft Passenger Engine. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "Retraced from G.B. (Aug./66)."

4. Passenger Engine. L. & S.W. Ry. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears the initials "G.B."

5. [Detailed dimension drawing of unidentified engine]. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

6. Beyer, Peacock & Co., Manchester, Express Passenger Locomotive for South Eastern Railway of Portugal. Manchester: 1862. Tracing paper.

Location: D249 F4

7. 7 ft. Wheel Passenger Engine. Narrow Gauge. G.W.R. n.p.: 1865. Colour. Tracing paper. Bears initials "G.B."

Location: D566 F7

8. [Unidentified engine]. n.p.: n.d. Tracing paper. Cyldr. 16 in. Diameter. 24 Stroke.

9. [Barnett, George], [Unidentified Engine]. Swindon: n.d. Tracing paper. Cyldr. 16 in Diameter. 24 Stroke.

(Vol. 155 cont'd)

Location: D249 F4

10. [Engine]. G.W.R. "Snake" Class. J.V. Gooch. n.p.: n.d. Colour. Tracing paper.

11. Barnett, George, "Canute" [Engine.] G.W.R. Drawn to Decorate Board Room. n.p.: 1858. Tracing paper.

12. Barnett, George, Beattie's Patent Locomotive Engine; Comprising Fire Box and Boiler for Consumption of Coal and Apparatus for Heating Feed Water. n.p.: 1856. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

Location: D566 F7

13. [Barnett, George], G.W.R. B.G. Engine (Hawthorn Class). J. Armstrong, Engineer. Swindon: 1864. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

14. Stirling, Patrick, Doncaster, Locomotive Supt., Express Passenger Engine, Great Northern Railway. Sheet II. Sections of Engine and Tender. Supplement to The Engineer, Nov. 3, 1871. Portfolio of Working Drawings No. 48. Tracing paper. Lower right corner of sheet has been removed.

15. Bogie Express Engine. L.C. & D. Ry. Supplement to The Engineer, Jan. 24, 1879. Portfolio of Working Drawings No. III. Tracing paper.

16. Express Passenger Locomotive Midland Railway. Section and Plan. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 5. New Series. Tracing paper.

17. Drummond, D., Engineer, Express Passenger Engine. North British Railway. Supplement to The Engineer, Jan. 4, 1878. Portfolio of Working Drawings No. 106. Tracing paper.

18. Main Line Express Passenger Engine. North Eastern Railway. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 8. New Series. Tracing paper.

(Vol. 155 cont'd)

19. 4 Wheels Coupled Passenger Engine. Midland Railway. Supplement to The Engineer, May 8, 1885. Portfolio of Working Drawings No. 125. Tracing paper.

20. Craven, J.C., Four Coupled Engine. Supplement to The Engineer, June 3, 1870. Portfolio of Working Drawings No. 34. Tracing paper.

VOLUME: 156 - (Location: D249 F4)

1. Cross, James, Engineer, St. Helens Canal & Railway Elevation of An Eight Wheeled Passenger Locomotive, With Adams's Patent Radial Axle Boxes. [Lancashire]: 1864. Heavy paper.

Location: D249 F5

2. Cross, James, Engineer, St. Helen's Canal & Railway. Plan & Section of An Eight Wheeled Passenger Locomotive, With Adams's Pantent Radial Axle Boxes. [Lancashire]: 1864. Heavy paper.

Location: D249 F4

3. Plan of "Loco" Engine with Radial Axle Boxes. [W.B. Adam's Patent]. [Lancashire]: n.d. Heavy paper.

Location: D249 F5

4. Goods Engine. L. & S.W.R. n.p.: n.d. Tracing paper. Scale: 2 inches = 1 foot.

(Vol. 156 cont'd)

Location: D249 F4

5. Beyer Peacock & Co., G.W.R. Narrow Gauge Goods Engine. n.p.: 1865. Tracing paper.
Scale: 1 inch = 1 foot.

Location: D567 F1

6. Barnett, John Davis, Goods Engine. L. & S.W.Ry. n.p.: 1866. Tracing paper.
Scale: 2 inches = 1 foot.

7. Walson & Co., Engines No. 237 & 238. W.M.R. Co. n.p.: n.d. Tracing paper.

8. Narrow Gauge Goods [Engine]. n.p.: n.d. Tracing paper.

9. Engines Nos. 34 & 35. "Bury". [Liverpool]: n.d. Tracing paper.

10. Robert Stephenson & Co., Newcastle-on-Tyne, [Engine] Nos. 1055 & 1060. Built 1856. Retraced From G.W.R. Tracing Aug. 1866. n.p.: 1866. Colour. Tracing paper.

11. Passenger Engine. G.W.R. n.p.: 1856. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F5

12. General Arrangement of N.G. Tank Engines 22nd Lot. G.W.R. n.p.: 1872. Tracing paper.
Scale: 1 1/4 inches = 1 foot.

Location: D567 F1

13. Barnett, George, 6 Wheel Coupled Tank Engine. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

(Vol. 156 cont'd)

Location: D249 F5

14. Barnett, George, 4ft. Wheel Tank Engine. G.W.R. n.p.: 1860. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F1

15. Barnett, George, [Engine] Design. G.W.R. n.p.: n.d. Tracing paper.

16. Shrewsbury & Hereford Railway. Tank Engines. n.p.; n.d. Colour. Tracing paper.

Location: D249 F5

17. Passenger Tank Engines. G.W.R. n.p.: 1868. Tracing paper. Annotated.

Location: D567 F1

18. Four Wheels Coupled Tank Engine with Joseph Beatties Patent Boiler for the Combustion of Coal Showing Also His Patent Apparatus for Warming the Feed Water. L. & S.W. Ry. n.p.: 1856. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Retraced from G.B. Aug./66."

19. Beyer Peacock & Co., Tank Engine. Heating Surface.... n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F5

20. Barnett, George, Proposed 4 ft. Wheel Coupled Tank Engine. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 156 cont'd)

Location: D567 F1

21. Whitelegg, Thos., Engineer, Four-Coupled Bogie Tank Engine, London, Tilbury and Southend Railway. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 12. New Series. Colour. Heavy paper.

22. Sharp, Stewart and Co., Glasgow, Builders; Jones, D., Inverness, Designer, Six-Coupled Bogie Goods Engine. Highland Railway. Supplement to The Engineer, Dec. 14, 1894. Tracing paper.

23. Avonside Engine Co., Bristol, Builders; McDowell, D., Designer, 4 Coupled Goods Engine. Supplement to The Engineer, Jan. 1, 1875. Portfolio of Working Drawings No. 84. Tracing paper.

24. Kirtley, Matthew, Locomotive Superintendent., Goods Engine. Midland Railway. Supplement to The Engineer, June 7, 1872. Portfolio of Working Drawings No. 56. Tracing paper.

25. Kirtley, W., Locomotive Superintendent, L.C. & D.R. Goods Engines, Class B. Supplement to The Engineer, Oct. 5, 1877. Portfolio of Working Drawings No. 105. Tracing paper.

Location: D567 F1

26. The Vulcan Foundry Co., Newton-le-Willows, Builders; Wright, Barton, Designer, Goods Engine, Lancashire & Yorkshire Railway. Supplement to The Engineer, April 1, 1881. Portfolio of Working Drawings No. 123. Tracing paper.

27. Beyer Peacock & Co., Manchester, Builders; Kirtley, Designer, Midland Railway. Locomotive Tank Engine, for Metropolitan Traffic. Supplement to The Engineer, Feb. 3, 1871. Portfolio of Working Drawings No. 41. Tracing paper.

28. Stroudley, William Loco. Supt., Tank Locomotive. L.B. & S.C.R. Sheet No. 2 Details and Sections. Supplement to The Engineer, May 9, 1873. Portfolio of Working Drawings No. 64. Tracing paper.

(Vol. 156 cont'd)

29. Neilson & Co., Glasgow, Engineers; Fletcher, E., Designer, Bogie Tank Locomotive. North Eastern Railway. Supplement to The Engineer, July 21, 1876. Portfolio of Working Drawings No. 95. Tracing paper.

30. Rhymney-Railway. Tank-Engine. Supplement to The Engineer, Jan. 5, 1872. Portfolio of Working Drawings No. 51. Tracing paper.

Location: D567 F2

31. Neilson & Co., Glasgow, Engineers; Fletcher, E., Designer, Bogie Tank Locomotive. North Eastern Railway. Supplement to The Engineer, June 30, 1878. Portfolio of Working Drawings No. 94. Tracing paper.

32. Tank-Engine, Rhymney-Railway. Sheet II. Details. Supplement to The Engineer, Feb. 9, 1872. Portfolio of Working Drawings No. 52. Tracing paper.

VOLUME: 157 - (Location: D567 F2)

1. Sharp Stewart & Co., Builders; Hershaw, John, Designer, Incline Tank Engine...for the Great Indian Peninsular Railway Bombay. From Artizan, Oct. 1, 1862. Tracing paper.
Scale: 3/4 inch = 1 foot.
Annotation: "Copy Feb. 1867 J.D.B."

Location: D249 F5

2. East Indian Ry. Goods Engine. n.p.: n.d. Heavy white paper.
Scale: 1 inch = 1 foot.

(Vol. 157 cont'd)

Location: D567 F2

3. Marie, M.E., Engineer, Goods Engine. Paris Lyons and Mediterranean Railway. Supplement to The Engineer, Nov. 21, 1879. Portfolio of Working Drawings No. 116. Tracing paper.

4. Marie, M.E., Engineer, Goods Engine. Paris Lyons and Mediterranean Railway. Supplement to The Engineer, Jan. 2, 1880. Portfolio of Working Drawings No. 117. Tracing paper.

5. Henschel & Son, Engineers, Cassell, Goods Locomotive for the Bergisch-Markische Railway. Supplement to The Engineer, Dec. 4, 1874. Portfolio of Working Drawings No. 81. Tracing paper.

6. Haswell, Stadtsbahn, Vienna, Narrow Guage Goods Engine. Supplement to The Engineer, Dec. 10, 1875. Portfolio of Working Drawings No. 91. Tracing paper.

7. Neilson & Co., Hyde Park Locomotive Works, Glasgow, Engineers, Narrow Gauge Goods Locomotive Cape Government Railways. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 4. New Series. Tracing paper.

8. Neilson & Co., Hyde Park Locomotive Works, Glasgow, Engineers, Tank Locomotive, Indian State Railways. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 11. New Series. Tracing paper.

9. Hawthorne, Leslie & Co., Engineers, Six Coupled Tank Locomotive, Circum-Etna Railway. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 10. New Series. Tracing paper.

10. Berliner Maschinenbau - Actien - Gesellschaft, late L. Schwartzkopff, Engineers, The Vienna Exhibition. Four Coupled-Tank Engine. Supplement to The Engineer, July 11, 1873. Portfolio of Working Drawings No. 67. Tracing paper.

11. Neilson & Co., Glasgow, Tank Locomotive for Bhore Ghaut Incline. Great Indian Peninsula Railway. Supplement to The Engineer, April, 1874. Portfolio of Working Drawings No. 72. Tracing paper.

(Vol. 157 cont'd)

12. Neilson & Co., Glasgow, Tank Locomotive for Bhore Ghaut Incline. Great Indian Peninsula Railway. Supplement to The Engineer, Jan. 2, 1874. Portfolio of Working Drawings No. 71. Tracing paper.

13. [Unidentified Locomotive]. n.p.: n.d. White paper.

14. Burnham, Parry, Williams & Co., Baldwin Locomotive Works, Philadelphia, Engineers, Six Wheels Coupled Bogie Passenger Engine. Supplement to the Railway Engineer, Dec., 1890. Plate 462. White paper.

15. Clark, David, M.M., Passenger Locomotive, Constructed by The Lehigh Valley R.R.Co. Hazleton, Pa. U.S.A. Supplement to The Engineer, July 9, 1875. Portfolio of Working Drawings No. 89. Tracing paper.

16. Clark, David, M.M., Passenger Locomotive, Constructed by the Lehigh valley R.R. Co. Hazleton, Pa. U.S.A. Sheet 2, Details. Supplement to The Engineer, Oct. 1, 1875. Portfolio of Working Drawings No. 90. Tracing paper.

VOLUME: 158 - (Location: D567 F2)

1. Hinkley Loco. Co., 18" x 24" American Locomotive for 4' 8 1/2" Gauge. n.p.: 1883. Blueprint.
Scale: 1/2 inch = 1 foot.

2. Eaton, R., Designer, Design for Goods Locomotive Engine for the Valparaiso & Santiago Railway. n.p.: ca. 1854. Colour. Tracing paper.

Location: D249 F5

3. Chicago & Alton Standard Engine. Class "A". Bloomington: 1881. Blueprint.
Scale: 1 1/2 inches = 1 foot.

VOLUME: 159 - (Location: D249 F5)

1. Chicago & Alton Standard Engine Class "D". Bloomington: 1887. Blueprint.
Scale: 1 1/2 inches = 1 foot.
See Barnett Manuscript Box Vol. 159 for related correspondence.

VOLUME: 160 - (Location: D249 F5)

1. Canadian Pacific Railway. Engine. n.p.: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.
1 1/2 inches = 1 foot.
Drawings show: 65 Ft. 5 in. long engine.
Valve gear designed by A.J. Stevens.
Plan of steam chest.
Plan showing engine wheels on 12 degree curve.

2. [Unidentified engine and tender]. n.p.: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.

Location: D567 F2

3. Plan of Convertable Engine. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F5

4. Fairbain's 16" Express Engine. G.W.R. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

5. Cab Running Board. Fire Box & Boiler Mountings. Convertable Engines W.X.Y.Z. Grand Trunk Mech. Dept. Drawing No. 986. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

(Vol. 160 cont'd)

Location: D567 F3

6. Cylinder Covers. Steam Chest Covers with Sheeting &c. for Convertable Engines WXYZ. Grand Trunk Railway Drawing No. 985. n.p.: 1872. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

7. Frame for Convertable Engines. Grand Trunk Railway Mech. Dept. Drawing No. 974. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

8. Spring Gear and Axle Box for Convertable Engines. Grand Trunk Railway Mech. Dept. Drawing No. 973. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

9. Proposed Mode of Altering Standard Freight Engines 16" x 26", Wheels 5'0". Grand Trunk Mech. Dept. Drawing No. 1096. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm J.D.B. 19-11-/73"

10. Brown, Francis R., Mech. Supt.; Atkinson, R., Chief Draughtsman, C.P.R. Locomotive. 300. n.p.: 1884. Blueprint.

Location: D249 F5

11. Goods Engine Driving Wheels 5.0 Diam. Grand Trunk Railway. Supplementary Tracing Showing General Arrangement. Pt. St. Charles: n.d. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exd. G. Hughes March 18th 57"

Location: D567 F3

12. Brown, Francis R.F., Mech. Supt.; Atkinson, R., Chief Draughtsman, C.P.R. Mech. Dept. Engine. n.p.: 1883. Blueprint.

(Vol. 160 cont'd)

Location: D249 F5

13. Fairbairn Engine. Heating Surface.... n.p.: 1861. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F3

14. Brown, Francis R.F., Mech. Supt.; Atkinson, R., Chief Draughtsman, C.P.R. Passenger Engine. n.p.: n.d. Blueprint.

Location: D249 F5

15. Brown, Francis R.F., Mech. Supt.; Atkinson, R., Chief Draughtsman, C.P.R. Mech. Dept. General Plan. Passenger Engine Order Nos. 1016-1027. Drawing No. 681. n.p.: 1864 Blueprint.
Scale: 1 1/2 inches = 1 foot.

16. [Details of boiler & drive mechanism, unidentified]. n.p.: n.d. Colour. Tracing paper.

17. [Details of Boiler & Drive Mechanism, Unidentified]. n.p.: n.d. Colour. Tracing paper.

VOLUME: 161 - (Location: D567 F3)

1 Bury, Liverpool, G.W.R. Nos. 34 & 35. Dummy Crank Axle. Liverpool: ca. 1845. Tracing paper.

2. Drawing of A Wagon Engine. n.p.: 1804[?]. Linen.
Scale: 3/4 inch = 1 foot.

3. Barnett, George, Stephenson's "Rocket". L. & M. Railway. 1830. n.p.: 1860. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 161 cont'd)

4. [Barnett, George], Locomotive Engine. A.D. 1804. n.p.: 1870. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

VOLUME: 163 - (Location: D567 F3)

1. No. 228 Engine Outside Cylinders. G.W.R. Loco Dept. Register of Balance Weights. n.p.: 1865. Tracing paper.

2. G.W.R. Co. Loco Dept. Engines Nos. 41-44. [Register of Balance Weights]. n.p.: n.d. Tracing paper.

3. G.W.R. Co. Loco Dept. Engines No.s 119 to 130. [Register of Balance Weights]. n.p.: n.d. Tracing paper.

4. G.W.R. Co. Loco Dept. Engines Nos. 7 & 8. [Register of Balance Weights]. n.p.: n.d. Tracing paper.

5. G.W.R. Co. Loco Dept. Engines Nos. 149 to 156. [Register of Balance Weights]. n.p.: n.d. Tracing paper.

VOLUME: 164 - (Location: D567 F4)

1. Bell Stand & Bell for Convertible Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 1062. n.p.: 1872. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

2. Bell & Stand. Machester No. 150 to 199 & 406 to 415. G.T. Ry. No. 1167. n.p.: n.d. Colour. Linen.
Scale: half size.

3. Bell & Stand No. 464. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

4. Leach Locomotive Sander. "D2 Double." "D2 Single". n.p.: 1898. Blueprint.

(Vol. 164 cont'd)

5. Arrangement of Sand Box Gear for 8 ft. Engines. G.W.R. n.p.: 1865. Colour. Tracing paper.

6. Sand Box Gear. n.p.: Tracing paper.

7. Sand Box. Drawing No. 640 Mech. Dept. G.T. Ry. n.p.: n.d. Colour. Linen.
Scale: half size.
full s5282
Annotation: "Exm J.D.B. 27-6-/74."

Location: D249 F5

8. New Mixed Traffic Engine. Connecting Rod. London & South Western Railway. Copy Drawing No. 5282. London: 1894. Colour. Heavy drawing paper.
Scale: 3 inches = 1 foot.
full size.
Signed by "Reid" and "W. Adams."

9. New Mixed Traffic Engine. Crosshead. London & South Western Ry. Copy Drawing No. 6765. London: 1894. Colour. Heavy Drawing paper.
Scale: full size.
Signed by "Reid" and "W. Adams."

Location: D567 F4

10. New Mixed Traffic Engine. Coupling Rod. London and South Western Ry. Copy Drawing No. 5299. London: 1894. Colour. Heavy drawing paper.
Scale: Full Size.
Signed by "Reid" and "W. Adams."

11. Detail Showing Mode of Securing Knee Brackets for Carrying Foot Board to Barrel of Boiler. Grand Trunk Railway Mech. Dept. Drawing No. 911. n.p.: 1872. Colour. Linen.
Scale: half size.

VOLUME: 165 - (Location: D567 F4)

1. The Strong Locomotive. For Handling Heavy Trains at Great Speed and on Heavy Grades. Plates 1 & 2. Supplement to the Railway Review, April 9, 1887. White paper.

Location: D249 F5

2. The Strong Locomotive. For Handling Heavy Trains at Great Speed and on Heavy Grades. Plates 3 & 4. Supplement to the Railway Review, April 9, 1887. White paper.

3. The Strong Locomotive. For Handling Heavy Trains at Great Speed and On Heavy Grades. Plates 5 & 6. Supplement to the Railway Review, April 9, 1887. White paper.

Location: D567 F4

4. [Fairlie Locomotive]. With specifications. n.p.: n.d. Heavy drawing paper.

VOLUME: 166 - (Location: D567 F4)

1. Connections Between Engine and Tender. P.C.C.-St. L. Ry. n.p.: 1893. Blueprint.

2. Chafe Iron on Front End of Tender Frame. Classes H M, K Engs. Sheet 141a. C.B. & Q.R.R. n.p.: 1892. Blueprint. Scale: 3 inches = 1 foot.

3. Connection Between Engine & Tender. M.L. -S. & W. Ry. n.p.: 1892. Blueprint.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol. 166 for material that was removed from this blueprint.

4. Diagram Showing Foot-Steps & Handrail on Locomotive Engine and Tender. London & North Western Railway Co. Tracing No. 6584. n.p.: 1893. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 166 cont'd)

5. Gould Coupler Co., Buffalo, N.Y., Tender Coupler and Buffer. Buffalo: 1893. Blueprint.
See Barnett Manuscript Box Vol. 166 for related correspondence.

6. Johnson, A., M.E., Wedge and Shoe Between Engine and Tender. N.Y.L.E. & W.R.R. Card C 473. Buffalo, 1887. Blueprint.

7. Dummy Steam Car Running Across International Bridge, Buffalo. n.p.: n.d. Lined note paper.

8. Clark, D., M.M., Method of Coupling for Loc. & Tender. P. & R.R.R. Co. Hazleton, Pa.: 1893. Blueprint.
Scale: 3 inches = 1 foot.

9. McLeland, J.C., Bales' Vestibule Coupler. Pat. 1890. Des Moines, Iowa: n.d. Blueprint.
Scale: 3 inches = 1 foot.

10. Manner of Coupling Engine and Tender. All Classes Locos. D.S.S. & A. Ry. Marquette, Mich.: 1893. Blueprint.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F5

11. Engine to Tender Attachments. D.L. & W. R.R. Co. Scranton, Pa.: 1892. Blueprint.

12. Cast Iron Details. Class H Eng. C.B. & Q.R.R. Co. Aurora, Ill.: 1890. Blueprint.
Scale: 2 inches = 1 foot.
3 inches = 1 foot.
6 inches = 1 foot.

13. Back End of Frame. D.L. & W.R.R. Co. Scranton, Pa.: 1892. Blueprint.

14. Step for Tender, Class H Engine. C.B. & Q.R.R. CO. Sheet 212f. Aurora, Ill.: 1892. Blueprint.
Scale: 3 inches = 1 foot.

15. Diagram Shewing Attachment Between Locomotive Engine & Tender. London & North Western Railway Co. Tracing No. 6583. n.p.: 1893. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

(Vol. 166 cont'd)

16. Tram-Way Engine with Noiseless Exhaust. Schenectady Locomotive Works. n.p.: n.d. Linen.
Scale: 1 1/2 inches = 1 foot.

17. Manner of Attaching Steps and Handles to Front End of Engines for Switching Service. L.S. & M.S.Ry. m.p.: 1887. Blueprint.

18. Engine and Tender Wedge and Casting for All Baldwin Engines. D.S.S. & A.R.R. Marquette, Mich.: 1890. Blueprint.
Scale: 3 inches = 1 foot.

19. Tender. Handle and Steps Front End Six Wheel Switch Eng. L.S. & M.S.[?]Ry. n.p.: n.d. Blueprint.

20. Six Wheel Switch Engine Showing Handles and Steps. L.S. & M.S. [?]Ry. n.p.: n.d. Blueprint.

21. Six Wheel Switch Engines Showing Handles & Steps. L.S. & M.S. [?]Ry. n.p.: n.d. Blueprint.

22. Six Wheel Switch Engs. Showing Handles and Steps on Engine and Tender. L.S. & M.S. [?]Ry. n.p.: n.d. Blueprint.

23. Handle and Steps Rear End Six Wheel Switch Engines. L.S. & M.S.Ry. n.p.: n.d. Blueprint.

24. Handles and Steps for All Engines Except Six Wheel Switch Engs. L.S. & M.S. Ry. n.p.: n.d. Blueprint.

25. Drummond, Dugald, M. Inst. C.E. Engineer, Four-Cylinder Bogie Express Locomotive. London and South-Western Railway. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 14. New Series. Tracing paper.

26. [Unidentified splinde connector]. Pat. July 31, 188. n.p.: n.d. Blueprint.

27. [Rear of unidentified railway car showing hoses, couplings and mechanical details]. n.p.: n.d. Incomplete blueprint.
Correct 12-8-90
Correct 10-29-91
Correct 4-26-92.

VOLUME: 167 - (Location: D567 F5)

1. Locomotive Engineering. From The Artizan, May 1, 1863. Plate 241. Tracing paper.
Drawings and dimensions of 23 engines.

VOLUME: 168 - (Location: D567 F5)

1. Dewrance[?], J., Tender. L. & M. R. n.p.: 1840. Tracing paper.

Location: D249 F5

2. Tender Calculated to Carry 1800 Gallons and 2 Cords of Wood. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
signed by "George Whish."
Annotation: "A Corrected Copy Sent to Mr. Geo. Tate Toronto No. 28th/54."

3. Tender Consolidn. Class. Grand Trunk Railway. Drawing No. 1573. Montreal: 1878. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F5

4. Tender for New Freight Engines. Grand Trunk Railway of Canada. Drawing No. 16. Point Saint Charles Works: 1858.
Copy taken from blueprint. Badly faded.

Location: D249 F5

5. Barnett, George, "Hawthorn" Class. G.W.R. Tender for Broad Gauge 6'0" Coupled Passenger Engines. Swindon: 1864.
Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 168 cont'd)

Location: D567 F5

6. Eaton, R., Tender for 6' 6" Wheel Passenger Engine. London and South Western Ry. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears Initials "G.B."

7. Eaton, John, Tender for Passenger Enines. L. & N.W. Ry. (Alland's). n.p.: ca. 1850. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

8. Tender for L. & N.W. 7 ft. Passenger Engine. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.

9. Roller Mountings for Convertable Engines WXYZ Drawing No. 950 G.T.R. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.
Bears rubber stamp: "R. Eaton Supt."

Location: D567 F6

10. Safety Valve. 8th Lot N.G. Goods. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: fulle size.

11. Lock Up Safety Valve for Steam Boat. Longueuil: 1856. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Signed "F.H. Trevithick"[?].

12. Double Safety Valves with Manhold (for 15 and 16 in. Cylinders). n.p.: n.d. Colour. Tracing paper.

13. Fenton, I., Fenton's Patent Single Safety Valve. Low Moor: 1854. Tracing paper.
Scale: full size.

14. Barnett, George, Safety Valves. 5 ft. Wheel Goods Engines. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: 1/2 size.
Annotated.

(Vol. 168 cont'd)

Location: D249 F5

15. Safety Valve & Cover. G.W.R. Swindon: n.d. Colour. Tracing paper.

Location: D567 F6

16. Robinson, W.A.[?], Improved Patent Duplex Safety Valve for Locomotive Engines. Hamilton, Ont.: 1868. Colour. Linen.

17. Proposed Safety Valve. From Engineer, March 8, 1867. p. 211. Tracing paper.

18. Collin, J.B., Mech. Engineer, Swing Truck for Standard Engines P.R.R. Altoona: 1870. Colour. Linen.

19. Collin, J.B., Mech. Engineer, Swing Truck for Standard Engines P.R.R. Atoona: 1870. Colour. Linen.

20. Standard Iron Tender Frame. Richmond and Danville Railroad Co. Washington, D.C.: 1890. Blueprint.
Scale: 1 1/2 inches = 1 foot.
For related correspondence see Barnett Manuscript Box Vol. 168, File 5.

Location: D249 F5

21. Lateral Motion Engine Truck for Standard B.G. and N.G. Engines Also W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 956. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

22. Bissel Pony Wheel Truck (Mongul Engines). Grand Trunk Railway Mech. Dept. Drawing No. 1432. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Annotation: "Exm J.D.B. 20-1/77".

(Vol. 168 cont'd)

Location: D567 F6

23. Proposed Alteration of Truck for Intercolonial Engines. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

24. Standard Horn Block for Engines. G.E.R. copy DG. No. 7446. Stratford Works: 1896. Colour. Heavy drawing paper.
Scale: half size.
Signed by "Jas. Hobson."

25. Outside Frames for Wilsons Light Goods. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D249 F5

26. Horn Blocks. N.E.R. Loco. Dept. Gateshead. Dg. No. 3471. Gateshead: 1893. Blueprint.
Scale: full size.

Location: D567 F6

27. Outside Frames for Wilsons Light Goods. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

28. 1 1/4 Plate Frame for No. 111 &c. G.T.R. No. 1151. n.p.: 1873. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

29. Tayleur & Co., Vulcan Foundry, Plate Frame Carried Up & Forming Back of Splashers. n.p.: n.d. Tracing paper.

30. Pilot for Bar-Frame Engines. Grand Trunk Railway Drawing No. 1211. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

(Vol. 168 cont'd)

Location: D249 F5

31. Barnett, George, Tank Engines. G.W.R. n.p.: 1857. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

32. Barnett, George, Frame & [?] Nos. 111 & 112. G.W.R. Stafford Road. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F6

33. Frame of "Bore Ghaut" Tank Engine. n.p.: n.d. Tracing paper.

34. [Unidentified frame. G.W.R.]. n.p.: n.d. Tracing paper.

35. Frames. G.W.R. n.p.: n.d. Tracing paper.
Scale: 3/8 inch = 1 foot.
Drawings of 4 frames.

Location: D249 F5

36. Barnett, George, Frame Plates. Cross Stays &c. No. 30. 6'6" Passenger. G.W.R. n.p.: n.d. Tracing paper.
Scale: 2 inches = 1 foot.

Location: D567 F7

37. Belly Stay for Engine F. n.p.: n.d. Colour. Tracing paper.
Scale: 1/2 Size.

Location: D249 F5

38. Outside Cylinder Coupled Passenger Engine. L. & S.W. Railway. n.p.: 1857. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

(Vol. 168 cont'd)

Location: D250 F1

39. Frames and Renewals (2nd Series) G.W.R. n.p.: 1860. Colour. Linen.

40. Barnett, George, Frame 4 ft. Wheel Tank Engine. n.p.: 1866. Tracing paper.
Scale: 2 inches = 1 foot.

Location: D567 F7

41. Horn Stay and Tie Bolt. n.p.: n.d. Colour. Linen.

42. Tandy[?]. Intercolonial G.T.R. 284 to 289. Frame. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

43. Fletcher Jennings & Co., Mineral Tank Locomotive. Whitehaven: n.d. Tracing paper.

44. Belly Stay &c. Tandy[?] Intercolonial G.T.R. 284 to 289. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

45. Axle-Box Guides. L.B. & S.C.Ry. n.p.: 1896. Colour. Heavy Drawing paper.
Scale: 1 1/2 inches = 1 foot.

46. Motion &c. for 17 in. Cylinder Bar-Frame Engines. Grand Trunk Railway. Drawing No. 1207. n.p.: n.d. Colour. Linen.
Scale: 3inches = 1 foot.

47. Childs, H.A., M.M., Sketch of Stationary Pedestal Wedges. Jersey City: 1896. White writing paper.

Location: D250 F1

48. Dewrance, I.[?], Ball and Socket Joint Pipe Between Engine & Tender. No. 9. n.p.: 1842. Colour. Tracing paper.
Scale: full size.

(Vol. 168 cont'd)

49. Tender Tank with Wrought Iron Frame. Drawing No. 1209. Grand Trunk Railway. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm J.D.B. 29-6-/74."

50. Barnett, George, Tender Frame. 6 ft. Wheel Coupled Engines. Renewals A - G.W.R. n.p.: 1866. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D567 F7

51. Details of Tender Castings. Bar-Framed Engines. Grand Trunk Railway Drawing No. 1140. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D250 F1

52. Frame Complete. "Renewals Tenders." G.W.R. n.p.: 1859. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Annotation: "G.B. Traced by W. Dean."

Location: D567 F7

53. Details of Hand Rail-Feed Valve &c. 5 ft. Wheel Goods Engines. G.W.R. n.p.: 1865. Tracing paper.

54. Tender Frame. Portland Eng. Built for M.O. & W.[?] Ry. n.p.: 1876. Lined note paper.

55. Haswell, John, Staatsbahn, Vienna, Designer, Oscillating Bogie & Axle Boxes For Expresse Locomotive Huggarian State Railways. Supplement to The Engineer, Jan. 7, 1876. Portfolio of Working Drawings No. 92. Tracing paper.

56. Striling, P., Doncaster, Tender for Express Passr. Engine. Gt. Northern Railway. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 48. Tracing paper.
Incomplete: upper portion has been removed.

(Vol. 168 cont'd)

57. Wright, Barton, Designer; Vulcan Foundry Co., Newton-le-Willows, Builders, Goods Engine Tender, Lancashire & Yorkshire Railway. Supplement to The Engineer, dec. 2, 1881. Portfolio of Working Drawings No. 124. Tracing paper.

58. [Unidentified drawing]. n.p.: n.d. Colour. Tracing paper.

59. Portland Co., Portland, Me., [Unidentified valve assembly]. Portland: 1869. Colour. Tracing paper.
Scale: full size.

60. [Details of bell & whistle]. n.p.: n.d. Linen.

61. [Drawing showing details of pivoting connection]. Blood[?] Truck Centre as Supplied in Engines for M.O. & O. Ry. n.p.: n.d. Lined note paper.

Location: D250 F1

62. [Unidentified drawing showing details of railway car undercarriage]. n.p.: n.d. Colour. Linen.

Location: D567 F7

63. Manning, Wardle & Co., Boyne Engine Works, Tracing No. 5487. [Possibly steam ports and safety valve]. Leeds: 1886. Colour. Tracing paper.
Scale: full size.

64. [Unidentified Drawing of Locomotive Bogey Wheel and Driving Wheel. details]. n.p.: 1876. Colour. Tracing paper.
Scale: 2 inches = 1 foot.

VOLUME: 169 - (Location: D568 F1)

1. Slide Bars Cross Head and Piston Rod for Convertable Engines. Grand Trunk Railway Mech. Dept. Drawing No. 970. n.p.: 1872. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

(Vol. 169 cont'd)

2. Lauder, James No., Supt.; Powell, Chas. B., Draughtsman, Northern Railroad Standard Coupling Rods. Drawing No. 33. n.p.: n.d. Blueprint.
Scale: half size.

3. Coupling Rod. G.W.R. Swindon: 1877. Tracing paper.
For related correspondence, see Barnett Manuscript Box Vol. 169.

4. Coupling Rods for 4 ft. Wheel Coupled Tank Engines. G.W.R. Swindon: 1866. Colour. Tracing paper.
Scale: full size.
For related correspondence, see Barnett Manuscript Box Vol. 169.

5. International Railway Engine. Side Rod. Connecting Rod. n.p.: n.d. Tracing paper.
Scale: half size.

6. Barnett, George, Coupling Rod. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: full size.

7. Coupling Rods. Class B. Midland Railway Loco. Dept. Tracing No. 74/24. Derby: [1876]. Colour. Tracing paper.
Scale: full size.

8. Outside Rod for Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 6. n.p.: 1872. Colour. Linen.
Scale: finished size.
Bears rubber stamp: "R. Eaton, Supt."

9. Coupling Rod End. Great Western Railway of England. Swindon: 1877. Colour. Linen.
Scale: full size.
Annotation: "Exm J.D.B. 12-1/78."

10. Connecting Rod for Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 568. n.p.: 1872. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

11. Barnett, George, Slide Bars. G.W.R. n.p.: 1864. Colour. Tracing paper.
Scale: full size.

(Vol. 169 cont'd)

12. Stephenson, J.F., Centre Eye Loco Coupling Rods. N. Eastern Railroad. York. From Engineering, Vol. I, 1871. p. 219. Tracing paper.

13. Whieldon Lecky & Lucas, Beam Engine Luton Water Works. Details of Cylinder & Piston. n.p.: 1871. Colour. Tracing paper. See Barnett Manuscript Box Vol 169, File 8 for related description.

14. Drawings of Steam Valve Piston, Invented by Robert Bloomfield and William Gothwaite of the City of Montreal, Canada. Montreal: 1863. Colour. Linen.
Signed by: R. Bloomfield.
W. Gothwaite.
Young[?].
Bickenstaff[?].

15. Transverse Section Through Centre of Cylinder. m.p.: n.d. Colour. Tracing paper.

Location: D250 F1

16. Eaton, R., Outside 15 1/2 Cylinder. L. & S.W. Railway. n.p.: ca. 1851. Colour. Tracing paper.

Location: D568 F1

17. Cylinder. Tandy[?] Intercolonial. n.p.: n.d. Colour. Tracing paper.

18. Grand Trunk Railway Mech. Dept. Drawing No. 773. 16 inch Piston for Convertable Engines W.X.Y.Z. n.p.: 1872. Colour. Linen.
Bears rubber stamp: "R. Eaton, Supt.,

19. A.G.W.Ry. Cylinder Cock. n.p.: n.d. Colour. Tracing paper. Scale: full size.

20. Cylinder and Saddle with Packing Piece for Convertable Engines W.X.Y.Z. Grand Trunk Railway Co. Drawing No. 968. n.p.: n.d. Colour. Linen.

(Vol. 169 cont'd)

21. Cast Iron Piston Rings, as Applied to 17 inch Manchester Engines. Grand Trunk Railway Mech. Dept. Drawing No. 1170. n.p.: n.d. Colour. Linen.
Scale: half size.
Annotation: "Exm J.D.B. 2-3-/74."

22. Piston (17 in. Diamr.) for Bar Framed Engines. Grand Trunk Railway Mech. Dept. Drawing No. 1214. n.p.: n.d. Colour. Linen.
Scale: half size.

23. Piston. Grand Trunk Railway. n.p.: 1867. Colour. Tracing paper.
Scale: full size.
Signed: "P. Clark."

24. Goodfellow, B., Engineer, Wrought Iron Piston. 14 ins. Diameter. Hyde, W. Manchester: 1856. Colour. Tracing paper.
Scale: full size.

Location: D250 F1

25. Cylinders. Eng. Nos. 111 to 114 - 302 to 309 - 372 to 377 - 1004 to 1011 and 1016 to 1075. G.W.R. Wolverhampton: 1874. Colour. Tracing paper.
Scale: half size.

26. Cylinder. 4 ft. 6 in. Wheel Coupled Engines. G.W.R. m.p.: 1864. Colour. Tracing paper.
Scale: half size.

27. Cylinder A. (Forward Engine) Piston and Rod, Covers &c. for Twin Screw Engines. G.T.R. No. 1222. n.p.: 1874. Colour. Linen.
Scale: 3 inches = 1 foot.
Annotation: "Exm J.D.B. 27-1-/75."

Location: D568 F2

28. Alterations on Cylinders of Birkenhead Engines. G.W.R. n.p.: n.d. Tracing paper.

29. 15 Inch Piston. n.p.: 1865[?]. Colour. Tracing paper.

(Vol. 169 cont'd)

Location: D250 F1

30. Eaton, R., Cylinder of Engines for Dorchester Road. L. and S.W. Railway. n.p.: 1852. Colour. Tracing paper.
Scale: 1/2 size.

Location: D568 F2

31. 15 Inch Piston. G.S.W.R. n.p.: 1848. Tracing paper.

32. Barnett, George, 17" Diam. Cylinders. Steam Pressure 140 lbs. G.W.R. n.p.: 1880. Heavy drawing paper.
Scale: 3 inches = 1 foot.

33. American Steel Casting Co., Eccentric & Strap of Steel Castings. Traveling Ring of Brass. Pat. 1894. Thurlow, Pa.: n.d.
Blueprint.

34. Piston & Rod for 17 1/2 Inch Cylinders. Midland Railway Loco. Dept. Tracing No. 74/105. Derby: [1876]. Colour.
Tracing paper.
Scale: full size.

35. Cyilnder [sic.] 5 ft. Goods. n.p.: n.d. Tracing paper.
Scale: 1/4 Size.

36. Cylinder. G.W.R. n.p.: 1865. Tracing paper.
Scale: half size.

37. Chicago & North-Western Railway Co., Piston Rods Class A Engines. Drawing 5072. Chicago: 1896. Blueprint.
See Barnett Manuscript Box Vol. 169, File 7 for related correspondence.

38. Chicago & North-Western Railway Co., Piston Rods. Dimensions of Standard Piston Rod. Drawing 5248. Chicago: 1896.
Blueprint.
See Barnett Manuscript Box Vol. 169, File 7 for related correspondence.

39. Chicago & North-Western Railway Co., Crosshead No. 9. Drawing 5110.H. Chicago: 1897. Blueprint.
See Barnett Manuscript Box Vol. 169, File 7 For related correspondence.

(Vol. 169 cont'd)

40. Atelier Central de Louvain, Chemin de Fer Grand Central Belge, Piston pour les Locomotives No. 150-169. Louvain: 1866. Colour. Tracing paper.
Echelleau: 1/5
For related material, see Barnett Manuscript Box Vol. 169.

41. Norfolk and Western Railroad Co., Bull Ring Piston. Fig. 1. Roanoke, Va.: 1895. Blueprint.
For related material, see Barnett Manuscript Box Vol. 169.

42. Norfolk and Western Railroad Co., Box Piston. Fig. 2. Roanoke, Va.: 1895. Blueprint.
For related material, see Barnett Manuscript Box Vol. 169.

43. Norfolk and Western Railroad Co., Single Plate Pistons. Figs. 3-5. Roanoke, Va.: 1895. Blueprint.
For related material, see Barnett Manuscript Box Vol. 169.

44. Brownell, F.G., Packing for Valves, Steam & Piston Rods. Pat. 1886. Burlington, Vt.: ca. 1886. Tracing paper.
For related correspondence, see Barnett Manuscript Box Vol. 169.

45. Hocking, J., Engineer, Cornish Engine Series. No. IX. Cylinder and Condensing Work of 80" Pumping Engine at the Poldic Mine. Supplement to The Engineer, Sept. 1, 1871. Portfolio of Working Drawings No. 46. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

46. Beam Engine, Luton Water Works. Details of Cylinder & Piston. Supplement The Engineer, March 3, 1871. Portfolio of Working Drawings No. 42. Tracing paper.

47. Steam Packing. From Engineer, Dec. 1869. p. 387. Tracing paper.

48. [Unidentified railroad car wheel]. n.p.: n.d. Tracing paper.

49. Sharp Brothers & Co., Manchester, [Railroad car wheel]. Copy of No. 5392. Manchester: 1851. Colour. Tracing paper.
Scale: full size.

Location: D250 F1

50. [Unidentified locomotive engine parts]. n.p.: n.d. Colour. Tracing paper.

(Vol. 169 cont'd)

51. [Unidentified locomotive engine parts]. n.p.: n.d. Tracing paper.

VOLUME: 170 - (Location: D568 F3)

1. Robinson Automatic Relief Valve. Pat. 1879. n.p.: n.d. Blueprint.

2. Equilibrium Valve for Manchester Engines. Drawing No. 1259. n.p.: n.d. Colour. Linen.
Scale: 1/2 size.

3. Adam's Balance Valve Used on Portland Co. Pattern of Engines. Built for G.T.Ry. n.p.: n.d. Colour. Tracing paper.
Scale: full size.
half size.
Bears rubber stamp: "Portland Co. Portland Me. Aug. 2, 1870."

4. Balance Valve for Engines Nos. 179, 180, 181 for the Grand Trunk Ry. G.T.R. Standard Pattern of Engines. n.p.: n.d. Colour. Tracing paper.
Scale: full size.
Bears rubber stamp: "Portland Co. Portland Me. Aug. 2, 1870."

5. Adams, Thos., Equilibrated Slide Valve. n.p.: n.d. Heavy drawing paper.
Scale: full size.

6. Stokes, J.W., Ohio & Mississippi Railway, Improved Slide-Valve Balance. Pana, Ill.: 1886. Blueprint.
See Barnett Manuscript Box Vol. 170, File 6 for related material.

Location: D250 F1

7. Indicator Cards Taken from Chicago & Alton Engine No. 43. Equipped with Wilson's Patent Independant Admission and Exhaust Valve Gear. n.p.: 1887. Blueprint.

(Vol. 170 cont'd)

Location: D568 F3

8. Indicator Cards Taken From Chicago and Alton Engine No. 145. Equipped with Wilson's Patent Valve Gear with Single Valve. n.p.: 1887. Blueprint.

9. Table of Valve Motion Taken from Chicago and Alton Engine No. 43. Equipped with Wilson's Patent Independent Admission and Exhaust Valves and Gear. n.p.: n.d. Blueprint.

10. Wilson, Wm., Supt. Machinery, Table of Valve Motion Taken from Right Side of Engine No. 145. Bloomington: 1887. Blueprint.

11. Baldwin Locomotive Works, Link Valve Motion. Tracing No. 3599. Philadelphia: 1884. Blueprint.

Location: D250 F1

12. Model of Valve Gear G.T.R. of Canada. n.p.: n.d. Tracing paper.
Scale: 1/4
Bears initials: "J.D.B."

Location: D568 F3

13. Valve Setting Machine. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: full size.

14. Barnett, George, Model for Valve Gear. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

15. Variable Excentric & Rod for Model of Valve Gear. n.p.: n.d. Colour. Tracing paper.

16. Hannah, Samuel, Diagram Loco Valve Gear. From Engineering, Feb. 23, 1872. pp. 131-133. Tracing paper. For related material, see Barnett Manuscript Box Vol. 170.

(Vol. 170 cont'd)

17. Wood, G.C., Blast Pressure Regulator for Blowing Engine. From Engineering, Sept. 29, 1871. p. 204. Tracing paper.

18. Wardel, M., [Valve that Gives Double Area Both for Ingress & Egress of Steam to What the Ordinary D. Valve Does]. Letter to Eng. 2, 1867, p. 261. Tracing paper.

19. Blanced Slide Valve. From Engineering, Aug. 18, 1871. p. 100. Tracing paper.

20. Patent Self Acting Variable Expansion Gear. "Roly & Richardson." From Artizan, Jan., 1870. p. 15. Tracing paper.

21. Governor. Parabolic Absolutely Isochronous. From Eng. Vol. 2, 1870. p. 153. Tracing paper.

22. Forney, M.N., Instrument for Testing the Motion of Slide Valves. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
See Barnett Manuscript Box Vol. 170 for related clipping.

23. [Fly Ball Governor]. n.p.: n.d. Pencil sketch on heavy drawing paper.

24. [Valve Timing or Indicator Diagram]. n.p.: n.d. Colour. Tracing paper. Annotated.

25. [Valve Timing or Indicator Diagram]. Beyers Goods N.G. No. 322 to 341. n.p.: n.d. Colour. Tracing paper.
Scale: full size.
Annotation: "Copy G.B. 12/12/70."

VOLUME: 171 - (Location: D568 F4)

1. Grand Trunk Railway Experiments on the Relative Consumption of Fuel on the Differen Divisions With Engine No. 239 Built at the Baldwin Loco. Works 1873. n.p.: 1878. Tracing paper.

VOLUME: 172 - (Location: D568 F4)

1. Fire Brick Arch. G.T.R. Drawing No. A/1586. Montreal: 1885. Blueprint.
   See Barnett Manuscript Box Vol. 172 for related correspondence.

2. Coke Ovens. L. & S.W. Railway. Nine Elms, London: 1852. Colour. Tracing paper.
   Scale: 1 inch = 3 feet.

3. Improved Locomotive Engine. Plate 1. n.p.: n.d. Colour. Tracing paper mounted on cloth.

4. Passenger Engine. G.W.R. "Lord of the Isle Class." n.p.: ca. 1851. Colour. Tracing paper.

5. Arrangement of Beattie's Patent Fire Tiles in Fire Box of Engines for Great Western Railway. n.p.: 1857. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.

6. Standard Brick Arch. P.R.R. n.p.: 1876. Colour. Linen.
   Annotation: "Office Copy from K.B. from H. Fry Exmd J.D.B. 6-10/76."

7. Smith's Smoke Arrester P.R.R. n.p.: 1873. Colour. Linen.
   Annotation: "Exm J.D.B. 15-1/74."

8. [Unidentified Fire Box ?]. n.p.: n.d. Colour. Heavy drawing paper.

9. No. 322 to 341 Class. (Beyers). [Fire Box ?]. n.p.: n.d. Colour. Tracing paper.

VOLUME: 177 - (Location: D250 F1)

1. Apparatus for Lifting Pullman Cars at Sarnia. Grand Trunk Railway Mech. Dept. Drawing No. 979. n.p.: n.d. Colour. Linen.
   Scale: 1/2 inch = 1 foot.
   Bears rubber stamp: "R. Eaton, Supt."

(Vol. 177 cont'd)

2. Foundations for 25 Cwt. Self-Contained Hydraulic Crane. n.p.: n.d. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.

Location: D568 F1

3. Six Tons' Crane. n.p.: n.d. Tracing paper.

4. Shop Crane at S.D. n.p.: n.d. Linen.

Location: D250 F1

5. [Unidentified Crane]. n.p.: n.d. Colour. Linen.
Bears the initials "G.B."

6. Arrangement & Details of 5 Ton Crane for Tire Setting House. Pt. St. Charles Works. Loco Side. G.T.R. Mech. Dept. Herbt. Wallis, Mech. Supt. n.p.: 1891. Blueprint.
Scale: 3/4 inch = 1 foot.
1 1/2 inches = 1 foot.
Annotation: "For Stratford Shops 24/9/91."

Location: D568 F4

7. Dunn Hattersley & Co., Engineers & General Machinists, Windsor Bridge Iron Works near Manchester, Crane to Lift Ten Tons. n.p.: n.d. Color. Tracing paper.
Annotation: "W. Blackett 21 Blackfriers Road, London."

8. Details of 8 Ton Crane. Yard O.S. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

9. Foundation for 8 Ton Crane. Yard O.S. n.p.: n.d. Tracing paper.
Scale: 3/4 inch = 1 foot.

10. Coke Crane. Bordesley. G.W.R. n.p.: 1864. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

(Vol. 177 cont'd)

11. Foundation & Frame for Coal Crane No. 1105. n.p.: n.d. Lined paper, Sketch.

12. Coaling Crane. No. 1105. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.

13. Crane for Coke Shed. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

14. 8 Ton Crane (Dundas) Yard O.S. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.

15. W., No. 147 and 148 Hoist. Hockley. n.p.: n.d. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.
Annotation: "Copy G.B. 9/1/71."

VOLUME: 178 - (Location: D250 F2)

1. Engine Hoist in Erectin Erecting Shop. Point St. Charles. Grand Trunk Railway. Drawing No. 1274. Pt. St. Charles: n.d. Colour. Linen.
Scale: 1 inch = 1 foot

2. Huges, G., Erecting & Boiler Shop Shewing Design for Lifting Engines. Longueuil: 1856. Colour. Linen.
Scale: 1/2 inch= 1 foot.

Location: D568 F5

3. Goulty, W.R., Three Ton Travelling Crane. n.p.: 1852. Tracing paper.
Scale: 1 inch = 1 foot.

4. Dunn, Thos., Windsor Bridge Iron Words Near Manchester, [Unidentified Travelling Crane]. n.p.: n.d. Tracing paper.

5. Engine Lifting Machine. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.
1/2 inch = 1 foot.

(Vol. 178 cont'd)

6. Engine Hoist at the Erecting Shop Pt. St. Charles. No. 1071. Pt. St. Charles: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "copy J.D.B. 9-6/73./

7. Bearing for Lifting Locomotive Engines at Erecting Shops at Point St. Charles. No. 2. Pt. St. Charles: 1856. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
Screw: half size.

8. Hughes, G., Gearing for Lifting Loco Engines in Erecting Shop O.S. No. 83. n.p.: n.d. Tracing paper.
Scale: 1 inch = 1 foot.
half size.

9. Hughes, G., Gearing for Lifting Locos. in Erecting Shop. O.S. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

10. Travelling Shop Cranes. n.p.: n.d. Colour. Linen.

11. Barnett, John Davis, Power Travelling Crane. G.W.R. Stafford Road. n.p.: 1864. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

12. Power Travelling Crane. G.W.R. Swindon: 1868. Tracing paper.
Scale; 1 1/2 inches = 1 foot.

13. Barnett, John Davis, Travelling Crane to Lathe. Machine Shop. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

Location: D250 F2

14. Barnett, George, General Arrangement Travelling Crane. G.W.R. Swindon: 1876. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

VOLUME: 182 - (Location: D250 F2)

1. Eaton, Richard, Steam Heater for Engine Pits. Toronto Shed. G.T.R. Drawing No. 917. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D568 F5

2. Front Elevation of Steam Pipes for One Bay. Boiler Shop. Erecting Shop. n.p.: n.d. Colour. Linen.
Scale: 2 inches = 1 foot.
1 inch = 16 feet.
For related estimate costs, see Barnett Manuscript Box Vol. 182.

3. Roe, Chas. S., "None Such" Ventilator With Smoke Jack for Engine Houses. Pat. 1878. Chicago: n.d. Blueprint.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol. 182, File 4 for related material.

4. Roe, Chas. S., "None Such" Ventilator with Smoke Stack & Drop-hood for Engine Houses. Pat. 1878, 1888. Chicago: n.d. Blueprint.
Scale: 1/2 inch = 1 foot.
1 inch = 1 foot.
full size.

5. Eaton, Richard, Patent Ventilating Stove. n.p.: n.d. Colour. Tracing paper. For related material, See Vol. 182, Cat. 30.

6. [Eaton, Richard, Patent Ventilating Stove]. n.p.: n.d. Colour. Tracing paper.

7. [Eaton, Richard, Patent Ventilating Stove]. n.p.: n.d. Colour. Tracing paper.

8. [Eaton, Richard, Patent Ventilating Stove]. n.p.: n.d. Colour. Tracing paper.

9. Barnett, John Davis, Arrangements for Cutting Off Supply of Air to Stoves When Warm. G.T.R. of Canada. n.p.: n.d. Tracing paper.
Scale: 3 inches = 1 foot.

VOLUME: 185 - (Location: D568 F5)

1. Section of Passenger Propeller. Twin Screw. n.p.: n.d. Tracing paper.
   Scale: 1 inch = 1 foot.

2. [Beam Engine with Details of the Francis Skiddy S.S.]. n.p.: n.d. Tracing paper.

3. Beam Engine for the Steam Boat Francis Skiddy. n.p.: n.d. Colour. Tracing paper.
   Scale: 3/8 inch = 1 foot.

4. Details of the "Francis Skiddy." n.p.: n.d. Tracing paper.
   Annotation: "Exm. J.D.B. 26-12/74."

5. Details Francis Skiddy. n.p.: n.d. Tracing paper.

VOLUME: 186 - (Location: D568 F5)

1. Thomas Iron Works Co., Ltd., Steam Launch. R.S.S. "Victoria" of the Spanish Navy. From The Artizan, April 1, 1867. Plate 313. Tracing paper.

VOLUME: 187 - (Location: D568 F6)

1. HendersonCoubborn[?] & Co., Engineers & Shipbuilders, P.S. No. 146. G.W.R. New Milford to Waterford Traders[?]. Renfrew: n.d. Colour. Tracing paper.
   Scale: 1/4 inch = 1 foot.
   Annotation: "Copy G.B. 11-8-77."
   Drawings show: elevation of ship.
   plans of 2 levels.

(Vol. 187 cont'd)

2. C.W.R. S.S. Weston & Clevedon. Used for Conveying Coal from South Wales to Bristol. n.p.: 1878. Colour. Tracing paper.
Scale: 1/4 inch = 1 foot.
Red lines show alterations.
Annotation: "Tracing G.B. 15-11-78."

3. Passenger or Troop Ship. From The Artizan, Jan. 1, 1863. Plate 228. Tracing paper.
Annotation: "Jointly Designed by Commander Symonds & Mr. R. Roberts C.E. & Drawn from Models in Exhibition of 1862."

VOLUME: 191 - (Location: D568 F6)

1. Wm. B. Bement & Son, 42 inch Car Wheel Borer. Philadelphia: 1871. Tracing paper.

2. Machine for Boring Cylinders in Position. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
full size.

3. Cylinder Boring Bar for V.N. [?] Railway. n.p.: n.d. Colour. Tracing paper.
Scale: 2 inches = 1 foot.
full size.

4. Cylinder Boring Machine. G.T.R. Co. n.p.: 1862. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

5. Machine Attached to Old Lathe Head for Boring Crank Pin Holes in Hubs of Whels when in Position on Axle. n.p.: n.d. Tracing paper.
Scale: 1/2 size.

6. J. McDowall, & Sons, Johnstone, N.B., Clapperton's Patent Multiple Drilling Machine. From Engineer, Jan. 4, 1867. p. 4. Tracing paper.
See Barnett Manuscript Box Vol. 191 for description.

(Vol. 191 cont'd)

7. Fairbairn Kennedy & Naylor, Leeds, 2 inch Radial Drilling Machine with Crows Patent Tables. No. 286.
Leeds: 1872. Tracing paper.
Scale: 1 inch = 1 foot.
Annotation: "Copy J.D.B. 26-12/72."

8. Ratchet &c. for Cutting Out Tubes. Grand Trunk Railway Drawing No. 1287. n.p.: n.d. Colour. Linen.
Scale: full size.

9. Cataract Brace. n.p.: Colour. Tracing paper.
Scale: full size.

10. Hydraulic Machine for Drilling Truck Bars. Drawing No. 822. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

11. Wheel Drilling Machine. n.p.: 1865. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears the initials "G.W.B."

12. Dean, W., Pillar Drilling Machine. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
full size.

13. Neilson & Co., Glasgow, Wheel Rim & Tyre Drilling Machine. From Engineer, Jan. 4, 1867. Colour. Tracing paper.

14. Websters Tube Plate Cutter. From Artizan, May, 1869. p. 104. Tracing paper.

VOLUME: 192 - (Location: D568 F6)

1. Lead Tapping Machine. G.W.R. n.p.: 1863. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
See Barnett Manuscript Box Vol. 192, File 3 for related material.

2. 6 Feet Grindstone. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

VOLUME: 193 - (Location: D568 F6)

1. Riley, E.C., Bolt Centring Machine. G.W.R. n.p.: 1865. Colour. Tracing paper. Scale: full size.

2. Gauge for Outside Cranks. n.p.: n.d. Colour. Tracing paper. Scale: full size.

3. Riley, E.C., Lathe for Centring Wheels. G.W.R. n.p.: 1865. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

4. Barnett, John Davis, Machine for Truing & Turning Up Crank Pins in Position. n.p.: 1873. Tracing paper. Scale: full size.

VOLUME: 194 - (Location: D568 F7)

1. Barnett, George, Hydraulic Apparatus for Forcing Wheel. Stafford Road. G.W.R. n.p.: n.d. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

2. Barnett, George, Wheel Blocking Apparatus. G.W.R. Drawing 717. n.p.: 1861. Colour. Tracing paper. Scale: 1 1/2 inches = 1 foot.

3. Hydraulic Apparatus for Forcing Wheels. n.p.: n.d. Colour. Tracing paper.

4. Pump for Hydraulic Press for Forcing Wheels on Axles. Drawing No. 781. G.W.R. n.p.: 1858. Colour. Linen. Scale: full size. Annotation: J. Dalrymple[?]- my Predecessor at Staff. G.B."

5. Apparatus for Lifting Rails While Ballasting Road. n.p.: n.d. Tracing paper.

6. Pinch Bar. English Steel Blade Socket Handled Shovel. n.p.: n.d. Pencil sketch on note paper.

7. Hydraulic Press & Ram as Used at O.S. n.p.: n.d. Pen sketch on writing paper.

VOLUME: 196 - (Location: D568 F7)

1. Michele & Carrington, Cement Testing Machine. From Engineer, Dec. 23, 1870. p. 426. Tracing paper.

Location: D250 F2

2. Axle Testing Machine. G.T.R. Mech. Dept. Tracing from Drawing No. 1614. n.p.: 1878. Colour. Linen.
scale: 1 inch = 1 foot.
3 inches = 1 foot.

Location: D568 F7

3. Axle Testing Machine. G.T.R. Mech. Dept. Drawing No. 1627. n.p.: 1878. Colour. Linen.
Scale: 3/4 inch = 1 foot.
Annotation: "Exm. J.D.B."

VOLUME: 197 - (Location: D568 F7)

1. E. & T. Fairbanks& Co., Fairbanks Patent Iron Frame R.R. Track Scale. St. Johnsbury, Vt.: 1874. Colour. Linen.
Scale: 1/2 inch = 1 foot.
Annotation: "March 25th 1874 Ora Patten Exm J.D.B. 4-4/74."

Location: D250 F2

2. Weighing Machine for Engines. G.W.R. Swindon: 1870. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D568 F7

3. Barnett, John Davis, Foundation for 29 ft. Platform. G.T.R. Drawing No. 1188. n.p.: 1874. Colour. Linen.
Scale: 1/4 inch = 1 foot.

(Vol. 197 cont'd)

4. Foundation Plans for 34 ft. I.F.R.R. Track Scale. n.p.: 1871. Colour. Lith.: Ferd. Mayer & Sons, New York.
Scale: 1/2 inch = 1 foot.
Bears rubber stamp: "E. & T. Fairbanks & Co. St. Johnsbury, March 25, 1874."

5. Weldless Chain. From Engineer, Jan. 3, 1868. p. 5. Tracing paper.

6. Drawings...Showing the Proportions of Iron Chain Cables, Mooring Chain, and Other Articles.... to be Supplied for Her Majesty's Navy. England: n.d. Linen.
Drawings Show: End-link, enlarged link with stay-pin and common link of chain cable with large or anchor shackle.
For conditions of contract for supplying... dockyards at Chatham, Sheerness, Portsmouth and Devonport, see Barnett Manuscript Box Vol. 197, File 6.

7. Drawings... Showing she Proportions of Iron Chain Cables.... England: n.d. Linen.
Drawings show: swivel piece.
joining shackle.

8. Drawings... Showing the Proportions of Iron Chain Cables.... England: n.d. Linen.
Drawings show: splicing shackle. on...George Elliott's plan.

9. Drawings... Showing the Proportions of Iron Chain Cables... England: n.d. Linen.
Drawings show: moving swivel on Sir Thomas Hardy's plan.

10. Drawings...Showing the Proportions of Iron Chain Cables.... England: n.d. Linen.
Drawings show: blake's stopper for riding bitts.
Senhouse slips for inner ends of chain cable.
claw stopper.

11. Drawings...Showing the Proportions of Iron Chain Cables.... England: n.d. Linen.
Drawings show: clear hawse slip.
forelock of the 1st class.

(Vol. 197 cont'd)

12. Drawings...Showing the Proportions of Iron Chain Cables...
England: n.d. Linen.
Drawings show: tinned steel pin of the 1st class.
starting punch of the 1st class.
driving-out punch.
hand hook.

13. Drawings...Showing the Proportions of Iron Chain Cables....
England: n.d. Linen.
Drawings show: mooring chain link.
mooring chain shackle.

14. Drawings...Showing the Proportions of Iron Chain Cables....
England: n.d. Linen.
Drawings show: swivel and shackle for mooring chain. (Pattern A).

15. Drawings...Showing the Proportions of Iron Chain Cables....
England: n.d. Linen.
Drawings show: swivel with shackle for mooring chain, pattern B.
mooring ring, pattern A.
mooring ring, pattern B.

16. Drawings...Showing the Proportions of Iron Chain Cables....
England: n.d. Linen.
Drawings show: mooring pendants.
shackle for pendant and bridle chains.
Annotated.

VOLUME: 198 - (Location: D568 F7)

1. Barnett, George, [Drawings for Examination Paper for Copper's Hill College]. n.p.: n.d. Printed on medium weight paper. Lith.: Dangerfield, London.

VOLUME: 199 - (Location: D568 F7)

1. Directions for Erecting Signal Pillar Lamp. No. 8. n.p.: 1853. Grey medium-weight paper.
Annotation: "Copy [----?] to Mr. Barnett 29/12/53"

(Vol. 199 cont'd)

2. Atlas Works, Whitworth's Patent Releaser and Lever Lamp. Sheffield: n.d. Medium weight paper.

Location: D250 F2

3. Semaphore Wire Signal Post. Western District. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D568 F7

4. Standard Figures for Head Lamp Signals. G.T.R. Drawing No. 28/1891. n.p.: 1891. Blueprint mounted on cloth. Signed by Herbt. Wallis, Mech. Supt.
Annotation: "For Stratford Shops Reference 6/5/91".

VOLUME: 204 - (Location: D569 F1)

1. G.T.R. Order Board General Plan and Details. [Hamilton: 1885]. Blueprint.
Scale: 3 inches = 1 foot.

VOLUME: 206 - (Location: D569 F1)

1. Wigham Richardson & Co., Shipbuilders & Engineers, Compound Engines of the Compagnie Générale Transatlantique Steamers "Ville d'Oran" & "Ville de Bône." Supplement to The Engineer, Sept. 17, 1880. Portfolio of working drawings No. 120. Tracing paper.

2. Wingham Richardson & Co., Engineers and Shipbuilders, Compound Engines fo the Steamships Ville D'Oran and Ville de Bône, of the Compagnie Générale Trans-Atlantique. Supplement to The Engineer, Aug. 6, 1880. Medium weight paper.

(Vol. 206 cont'd)

3. Engine of S.S. "Grangemouth." Supplement to The Engineer, June 7, 1878. Portfolio of Working Drawings No. 108. Tracing paper.

VOLUME: 208 - (Location: D569 F1)

1. [Unidentified ratchet and winder mechanism]. n.p.: 1872. Pencil sketch on writing paper. Annotated.

VOLUME: 210 - (Location: D250 F2)

1. Boiler for 11th Lot N.G. Goods Engines. Drawing No. 853. Swindon: 1867. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

2. Boiler. 5 ft. 0 in. Wheel Tank Engines. G.W.R. n.p.: 1863. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.

Location: D569 F1

3. Steel Fire Box. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D250 F2

4. Details of Boiler. London & South Western Railway. n.p.: 1851. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Annotation: "Previous to Beatties Patent Boiler. Traced by Jules Billois."

(Vol. 210 cont'd)

5. O.C. Passenger Engines 6 fot. Wheels (Coupled). London and South Western Railway. Boiler. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

6. Boiler for O.C.C. Tank Engines Showing Fire Box and Combustion Chamber with Longitudinal and Transverse Partitions. n.p.: 1855. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

7. Boiler. G.W.R. n.p.: 1868. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

Location: D569 F1

8. Beattie's Patent Boiler. London & South Western Railway. n.p.: ca. 1856. Colour. Tracing paper.

9. Section of "Loco" Boiler with Internal Flue. G.W.R. n.p.: 1864. Colour. Heavy drawing paper.

Location: D250 F2

10. Boiler No. 117 Shunting Tank Engine. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Bears initials "G.B. 27/3/66" and "J.D.B. 29/9/66"
Annotation: "N.B. This is Used for Coal Burning Shutting Engines only on the G.W. Ry. and L. & N.W. Ry."

11. Boiler. 5 ft. Wheel Goods Engines. G.W.R. (N.G.) n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

12. Boiler for 4 ft. 6 in. Wheel Tank Engines. G.W.R. n.p.: 1864. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D569 F1

13. Boiler for Great Western Railway of Canada. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

(Vol. 210 cont'd)

14. Boiler for Convertable Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 965. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

15. Barnett, John Davis, Long 4 ft. 3 in. Boiler. G.T. Ry. Drawing No. 1164. n.p.: 1874. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D250 F2

16. Barnett, John Davis, Boiler for N.G. Engines with Horizontal Cylinders 15 by 22. G.T.R. Mech. Dept. Drawing No. 911 and 953. n.p.: 1870. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

Location: D569 F2

17. Long 4 ft. 3 in. Boiler. Grand Trunk Railway Mech. Dept. Drawing No. 1164. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm J.D.B. 11-6/74."

18. Dome & Fire Hole Door. No. 1164B. G.T.R. n.p.: n.d. Colour. Linen.

19. Chicago & Alton Railroad, Boiler for Chicago and Alton Standard Engines. Class "E". Bloomington, Ill.: 1894. Blueprint.
Scale: 1 inch = 1 foot.
See Barnett Manuscript Box Vol. 210 for related correspondence.

Location: D250 F2

20. Johann, Jacob, M.M., Designer, Wabash Railway Western Division Standard Locomotive Boiler 17 in. by 24 in. Cylinders. Springfield: 1877. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

(Vol. 210 cont'd)

Location: D569 F2

21. Tracing of the Liners[?] Fire Box. n.p.: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

22. [Fire Box] Liner [?] London & Manchester. "Exploded in Barrel." n.p.: ca. 1836. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

VOLUME: 211 - (Location: D569 F2)

1. [Lowmoor, Mfg.], Alton's "Low Moor" Thickened Eye Plate.
n.p.: [1885]. Colour. Tracing paper.
See Barnett Manuscript Box Vol. 211 for related correspondence.

2. Boiler for Modle [sic.] Engine. n.p.: n.d. Tracing paper.
Scale: half size.

3. Rhode Island Loco Works, Boiler of Yacht. W.K. Muir. G.W.R.
Providence: n.d. Tracing paper.

VOLUME: 212 - (Location: D569 F2)

1. Steel Boiler for Steam Crane. G.W.R. No. 4407. Swindon:
n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

2. Canada Foundry Co. Ltd., Barrow Combined Fire and water Tube Boiler. Toronto: 1913. Blueprint.
See Barnett Manuscript Box Vol. 214, File 4 for related correspondence.

3. Boliers for Mr. Henry John Boulton's Grist Mill. Toronto:
1867. colour. Linen.
Scale: 1 inch = 1 foot.

4. [Unidentified boiler]. n.p.: n.d. Linen.
Scale: 1 1/2 inches = 1 foot.

VOLUME: 213 - (Location: D569 F2)

1. "Huron's" Second Set of Boilers. n.p.: 1885. Sketch on lined paper.
   See Barnett Manuscript Box Vol. 213 for "New Boilers for Ferry Huron (My Boat) Built at 'HW' in 1885. G.T.R. Drawing 2338."

2. Boiler of "Dundee".... Boiler of "Perth".... n.p.: n.d. Tracing paper.

Location: D250 F2

3. Barnett, George, Proposed Boilers for S. Ships "Milford" &c. G.W.R. 2nd Design. Swindon: 1879. Colour. Tracing paper.
   Scale: 1 inch = 1 foot.
   Annotation: "not Adopted".

Location: D569 F2

4. Killey & Co., Mona Iron Work, Improved Marine Boiler. Hamilton, Ont.: n.d. Colour. Tracing paper.
   Annotation: "Copy J.D.B. 29-5/74".

5. Design for a Boiler for Steam Lighter with Screw Propeller. M.S. & L. Railway Locomotive dept. n.p.: 1850. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.

6. Return Flue Boiler. n.p.: n.d. Tracing paper.
   Scale: 1 inch = 1 foot.

7. Fire Box End of Boiler for Twin Screw Engines. G.T.R. No. 1223. n.p.: 1875. Colour. Linen.
   Scale: 1 1/2 inches = 1 foot.
   Annotation: "Exm J.D.R. 27-1/75."

8. Fire-Box Front Ferry Boat Huron. Grand Trunk Railway Drawing No. 1341. n.p.: 1875. Colour. Linen.
   Scale: 3 inches = 1 foot.
   Annotation: "Exm. J.D.B. 5-11/75".

(Vol. 213 cont'd)

9. [Unidentified Boiler]. Montreal: 1870. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
Signatures: E.E. Gilbert
Richard Eaton
F.H. Brydges
Bears rubber stamp: "Canada Eng. Wks. E.E. Gilbert, Montreal, Sept. 6, 1870."

10. Boilers of H.M.S. "Victoria & Albert". n.p.: n.d. Tracing paper.
Scale: 1/2 inch = 1 foot.

11. Babcock & Wilcox, Water Tube Safety Boiler. N.P.R.R. Como Shops Set No. S.I. Sheet No. 2. 1 Battery of 2 Boilers 208 H.P. n.p.: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.

12. Babcock & Wilcox, Water Tube Safety Boiler. N.P.R.R. Como Shops. Set No. S.I. Sheet No. 13. 1 Battery of 2 Boilers 208 H.P. n.p.: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.

13. Babcock & Wilcox, Como Shops. N.P.R.R. Ground Plan of 208 H.P. Babcock and Wilcox Boilers. Each Furnace 6 W 9 H 18" L 36" D. Set No. S.I. Sheet No. 19. n.p.: n.d. Blueprint.
Scale: 3/4 inch = 1 foot.

Location: D569 F3

14. Marine Boiler. n.p.: n.d. Pencil sketch on heavy drawing paper.

15. Sulzer, Engineer, Winterthur, Thirty Horse Power Boilers at the Vienna Exhibition. From Engineer, Oct. 31, 1873. Printed on both sides by William Dickes, Farringdon Rd., E.C.

16. Leigh, Levi, St. Petersburg, Designer; John Musgrave & Sons, Bolton, Builders, Homogeneous Steel Boiler. Supplement to The Engineer, May 30, 1873. Portfolio of Working Drawings No. 65. Tracing paper.
Scale: 1/2 inch = 1 foot.

(Vol. 213 cont'd)

17. 4. Furnace Boiler. H.M.S. "Thunderer". Supplement to The Engineer, Aug. 25, 1876. Portfolio of Working Drawings No. 96. Tracing paper.

18. Harland & Wolff, Belfast, Engineers, Boilers of the White Star Steamship Germanic. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 7. New Series. Tracing paper.

19. Laird Bros., Birkenhead, Engineers, Locomotive Boiler S.S. Queen of the North. Supplement to The Engineer, n.d. Portfolio of Working Drawings No. 3. New Series. Tracing paper.

20. High Pressure Marine Boiler 90 H.P. Supplement to The Engineer, June 27, 1873. Portfolio of Working Drawings No. 66. Tracing paper.

21. The Ouseburn Engine Works Co., Newcastle-on-Tyne, Engineers, 80 HP Boiler for S.S. Ly - ee - Moon. Supplement to The Engineer, Oct. 23, 1874. Portfolio of Working Drawings No. 80. Tracing paper.

22. Miller, Adam, London, Engineer, Boilers of the S.S. Lord of the Isles. Supplement to The Engineer, March 7, 1879. Portfolio of Working Drawings No. 112. Tracing paper.

VOLUME: 214 - (Location: D250 F2)

1. Feed Water Heater with Square Casting. Grand Trunk Railway Drawing No. 1045. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
half size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D569 F3

2. Barnett, John Davis, R. Eaton's Feed Water Heater. n.p.: n.d. Pencil drawing on heavy paper.

(Vol. 214 cont'd)

Location: D250 F2

3. Water Heating Apparatus as Applied to N.G. Engines. G.W.R. n.p.: 1859. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

Location: D569 F3

4. Flanges and Couplings &c. to Suite Morse Heater (Large Size). n.p.: n.d. Colour. Linen.
Scale: 1/2 size.

5. Improves Locomotive Engine. Plate 3. Feed Water Heater. Beattie's Patent. n.p.: n.d. Colour. Tracing paper mounted on cloth.

6. Improved Locomotive Engine. Plate 2. Feed Water Heater. Beattie's Patent. n.p.: n.d. colour. Tracing paper mounted on cloth.

7. Details for Feed Water Heater for Locomotives. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

8. Flanges & General details for 8 Pipe Feed Water Heater. Grand Trunk Railway Mech. Dept. Drawing No. 1064. n.p.: 1872. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

9. Portland Co., Heater for Stationary Engine for Portland Repair Shop, G.T.R. n.p.: 1860. Tracing paper.

10. Warming Apparatus. Grand Trunk Railway Drawing No. 842. n.p.: n.d. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

11. [Unidentified Wwater or steam pipes with flanges. perhaps for water heater]. n.p.: n.d. Colour. Tracing paper.

12. [Unidentified water or steam pipes with flanges. perhaps for water heater]. n.p.: n.d. Colour. Tracing paper.

(Vol. 214 cont'd)

13. [Unidentified water or steam pipes with flanges. perhaps for water heater]. n.p.: n.d. Tracing paper.

14. [Unidentified water or steam pipes with flanges. perhaps for water heater]. n.p.: n.d. Linen. Annotated.

VOLUME: 215 - (Location: D569 F3)

1. Exploded Loco Boiler. N.E. Railway. n.p.: 1865. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

2. System of Piping for Testing Boilers with Hot Water Pressure When Standing on Pits in Erecting Dept. L.S. & M.S. Railway. n.p.: 1889. Blueprint.

VOLUME: 217 - (Location: D569 F4)

1. Steam Tube Welding Machine. n.p.: n.d. Linen.

2. Barnett, John Davis, Drill for Holes in Tube Plate. G.W.R. n.p.: n.d. Tracing paper.
Scale: full size.

3. Ramsbottons Tube Cutter. From Engineer, 1, 1866. p. 123. Tracing paper.

4. Ferule Extractor. n.p.: n.d. Colour. Tracing paper.
Scale: full size.

5. Tool for Cutting Tubes. G.W.R. n.p.: 1866. Colour. Tracing paper.
Scale: full size.

6. R. Dudgeon Tube Expander. Pat. 1867. and W. Thompson's Patent Tube Expander. n.p.: n.d. Pencil sketches on lined paper.

(Vol. 217 cont'd)

7. Expanding Mandrells for Tubes. William St., Liverpool: 1854. Colour. Tracing paper.

8. Tweddall Hydraulic Tube Fixer. From Eng. 2, 1866. p. 278. and Tube Expander as Used on some German Railroads. From Engr. Vol. 2. p. 496. Tracing paper mounted on medium weight white paper.

9. Tool for Clipping Off the Copper Stay Ends of Fire Boxes. From Engineer, June 14, 1867. Tracing paper.

10. Tool for Cutting Stay Bolts of Locomotives. From Engineer, July 26, 1867. p. 80. Tracing paper.

VOLUME: 218 - (Location: D569 F4)

1. Long Exhaust Pipe for Manchester Engines. n.p.: n.d. Colour. Medium weight drawing paper.
Scale: full size.
3 inches = 1 foot.

2. Turreff, Wm. P., M.M., C.T.V. & W. Railway, [Spark Arrester]. n.p.: n.d. Linen.
Drawings show: section of cone.
perforated cone.
position of..cone in stack.
front view of stack.
top view of base to stack.

3. Smith's Spark Arrester. n.p.: n.d. Colour. Linen.

4. James Martin's Exhaust Chambers for Equalizing the Draught and Superheating the Steam. Drawing No. 335. n.p.: n.d. Copy from Blueprint .
Scale: 1 1/2 inches = 1 foot.

5. Smoke Stack for 16 inch Cylinder. Grand Trunk Railway Drawing No. 1279. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.
Annotation: "Exm. J.D.B. 13-12/75"

(Vol. 218 cont'd)

6. Smoke Stack with Long Cone. n.p.: n.d. Colour. Linen.

7. Standard Smoke Stack for Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 978. n.p.: 1872. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

8. Smith's Spark Arrester. P.R.R.. n.p.: 1873. Colour. Linen.
Annotation: "Exm. J.D.B. 15-1/74."

9. New Spark Arrester for Locomotive Engines Patented by Joseph Marks. n.p.: 1858. Colour. Linen.
Scale: 1/4 size.

10. Cole, G.A. [?], Smoke Stack. Montreal: 1868. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.

Location: D569 F5

11. Hunter, Geo. D., Supt., Hunter's Improved Spark Arrester and Extinguisher. Pat. 1879, 1883, 1884, 1885. Terre Haute, Ind.: Blueprint. 1885.

12. Eaton, R., Marks and Eaton's Patent Smoke-Stack for Wood and Coal-Burning Engines. n.p.: 1863. Colour. Tracing paper.
Signature: "R. Eaton."

13. Dubs & Co., Locomotive Engine Builders, Glasgow Locomotive Works, [Smoke stack]. Glasgow: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

14. Smoke Box Front. Engines Class SB, SD, SO, SR, SE. C.P.R. Drawing No. 1076. Winnipeg: 1896. Blueprint.
Scale: 3 inches = 1 foot.
full size.
See Barnett Manuscript Box Vol. 218 for related correspondence from W. Cross, M.M.

15. Stewart, O., S.M.P., Extension Smoke Arch for Eight Wheel Passenger Engines. Fitchburg Railroad. n.p.: 1890. Blueprint.

(Vol. 218 cont'd)

16. Smoke Box Door for Engines W.X.Y.Z. Grand Trunk Railway Mech. Cept. Drawing No. 590. n.p.: n.d. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

17. Smoke Box Door Arrangement. G.W.R. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials "J.D.B. 15/9/66."

18. Cast Iron Door and Frame for Smoke Box for 4 ft. 3 in. Boiler Grand Trunk Railway Mech. Dept. Drawing No. 1089. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

19. Beyer's Smoke Box Door. n.p.: 1866. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
Bears initials "J.D.B. 14/9/66."

20. Standard Extended Smoke Arch. C. & G.T.R. Fort Gratiot, Mich.: 1884. Blueprint.
Scale: full size.
1/2 size.
1/4 size.

Location: D250 F3

21. Steam Pipes. Grand Trunk Railway From Drawing No. 833. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
half size.

Location: D569 F5

22. Steam & Exhaust Pipes Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 989. n.p.: 1871. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

23. Details Standard Ten Wheel Engines 79 and 87. P.R.R. Altoona: 1868. colour. Linen.
Signature: "J.B. Collins, Mech, Eng."

(Vol. 218 cont'd)

24. Portland Co., Portland, Me., Balanced Throttle Valve. Portland, Me.: 1873. Colour. Tracing paper.
Scale: half size.

25. Dewrance, J. [?], "Loco" Regulator L. & M. n.p.: 1840. Tracing paper. Bears initials "G.B."

26. Railway Foundry, Leeds, Regulator. Tracing No. 1006. Leeds: 1857. Colour. Tracing paper.

27. Alteration of Regulator Valve for Intercolonial Railway Engs. n.p.: n.d. Colour. Tracing paper.
Scale: 3 inches = 1 foot.

28. Portland Co., Portland, Me., Double Poppet Throttle Valve for Locomotives. Portland, Me.: 1873. Colour. Tracing paper.
Scale: half size.

Location: D250 F3

29. Regulator and Steam-Pipes for Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 794. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

Location: D569 F5

30. Regulator Handle. Grand Trunk Railway Drawing No. 1213. n.p.: n.d. Colour. Linen.
Scale: half size.

31. [Steam Regulator]. n.p.: n.d. Colour. Linen.
Scale: full size.

VOLUME: 230 - (Location: D569 F6)

1. G.T.R., G.W. Division, Mech. Dept. Hamilton. [Plan]. Hamilton: 1887. Blueprint.

(Vol. 230 cont'd)

Location: D250 F3

2. Plan of Building and General Arrangement of Sand Dryer. Grand Trunk Railway G.W. Div. Mech. Dept. Hamilton. Sheet 2. Drawing No. 1466. Hamilton: 1887. Linen.
Scale: 1/2 inch = 1 foot.
1/16 inch = 1 foot.

Location: D569 F6

3. Drains for New Repair Shops at Port Huron. G.T.R. Mech. Dept. Drawing. Stratford: 1879. Colour. Linen.
Scale: 1 inch = 16 feet.

4. Friction Wheels for Riveting Pit. in Boiler Shop. G.T.R. No. 491. N.P.: n.d. Tracing paper.
Scale: half size.

5. [Drawings of unidentified shop]. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 8 feet.
Annotation: "Copy J.D.B. 13-10/73."
Drawings show: cross section showing also frame at end building.
part longitudinal section.
Measurements and estimated cost given.

6. Section of Proposed Machine Shop for Point St. Charles. n.p.: 1873. Colour. Tracing paper.
Scale: 1 inch = 8 feet.

7. [Cross Section of Unidentified Shop.] n.p.: n.d. colour. Tracing paper.
Scale: 1 inch = 4 feet.
Measurements and Estimated Costs Given.

8. Section of Shop Wall. n.p.: n.d. Colour. Tracing paper.

9. Engine Shed Proposed. 52 Engines & 2 Turn [tables]. Montreal: n.d. Colour. Writing paper.
Scale: 1 inch = 50 feet.

(Vol. 230 cont'd)

10. Stone Foundations &c. for New Pattern Tin & Copper-smiths, and Tube Shops at stratford. drawing No. 2652. n.p.: 1888. Blueprint.
Scale: 1/16 inch = 1 foot.
1/4 inch = 1 foot.
1/2 inch = 1 foot.
Signed by Herbt. Wallis, Mech. Supt.

11. Richmond Engine House. n.p.: n.d. Colour. Linen.
Scale: 1/4 inch.

12. Proposed Addition to Engine House Point St. Charles. n.p.: n.d. Linen.
Scale: 1 inch = 8 feet.
1/4 ich = 1 foot.

Location: D250 F3

13. Plan of Loco Workshops, Stratford. Grand Trunk Railway. n.p.: n.d. Colour. Linen.
Scale: 1/8 inch = 1 foot.
1 inch = 50 feet.
Annotation: "Exm. J.D.B. 17/8/77."

Location: D569 F6

14. C.I. Details for Water and Drain Service. New Loco Shops, Stratford. G.T.R. Mech. Dept. drawing No. 2551. n.p.: 1887. Blueprint.
Scale: 1 1/2 inches = 1 foot.
3 inches = 1 foot.
full size.
Signed by Herbt. Wallis, Mech. Supt.

Location: D250 F3

15. Engine House "Detroit." Grand Trunk Railway. n.p.: n.d. Linen.
Scale: 1 inch = 8 feet.
Annotation: "Port Huron Engine House is Built of Wood but Precisely Similar to this in all Other Respects."

(Vol. 230 cont'd)

Location: D569 F6

16. G.T.R. Proposed Machine Shop Point St. Charles. N.P.: n.d. Colour. Linen.
Scale: 1 inch = 8 feet.

17. New Smoke Jacks & Troughs. No. 1 Shed. Pt. St. Charles. G.T.R. Mech. Dept. Drawing No. 2292. n.p.: 1887. Blueprint. Signed by Herbt. Wallis, Mech. Supt.

Location: D250 F3

18. General Plan of Loco Engine Shed. Pt. St. Charles. G.T.R. Mech. Dept. Drawing No. 2177. Montreal: 1883. Blueprint.
Scale: 1/8 inch = 1 foot.
Signed by Herbt. Wallis, Mech. Supt.

19. Details of Foundation and Walls. Loco. Engine Shed, Point St. Charles. G.T.R. Mech. Dept. drawing No. 2178. Montreal: 1883. Blueprint.
Scale: 1/2 inch = 1 foot.
Signed by Herbt. Wallis, Mech. Supt.

Location: D569 F6

20. Details of Engine Pits.... and Details of Ash-Pit Loco Running Shed. Pt. st. Charles. G.T.R. Mech. Dept. Drawing No. 2179. Montreal: 1883. Blueprint.
Scale: 1/8 inch = 1 foot.
1/4 inch = 1 foot.
3/4 inch = 1 foot.
Signed by Herbt. Wallis, Mech. Supt.

Location: D250 F3

21. [Unidentified shop]. Grand Trunk Railway Mech. Dept. n.p.: n.d. Colour. Linen. Bears rubber stamp: "R. Eaton, Supt."

VOLUME: 234 - (Location: D569 F6)

1. Mr. Fell's Narrow Gauge Railway at Aldershopt. From Engineer, Nov. 1, 1872. pp. 296-7. Tracing paper.
See Barnett Manuscript Box Vol. 234 for related material.

2. [Railway profile. Union Station, Toronto to York and unidentified summit. Also profile from West Paris, Bag, Whitmans Bridge to Bryants Pond]. n.p.: n.d. Linen.

VOLUME: 242 - (Location: D569 F6)

1. Tunnel Profiles. G.W.R. England. Broad Gauge. n.p.: n.d. Tracing paper.

VOLUME: 247 - (Location: D569 F7)

1. Design for Stationary Engine. Swindon: n.d. Tracing paper.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Designed G.B. For W. Affleck, Swindon."

2. Direct Action Engines. n.p.: n.d. Tracing paper.
Scale: 2 inches = 1 foot.

3. Edwards, T., Builder, Compound High & Low Pressure Engines. at Messrs Vivians Rolling Mills Ladywood, Birmingham. Sheet 2. Details. Supplement to The Engineer, July 7, 1871. Portfolio of Working Drawings No. 45. Tracing paper.

4. Edwards, T., Builder, Combined High & Low Pressure Engines. at Messrs. Vivian's, Rolling Mills, Ladywood, Birmingham. Supplement to The Engineer, March 5, 1871. Portfolio of Working Drawings No. 44. Tracing paper.

5. Loam & Son, Engineers, Cornish Engine Series No. 7. General Elevation of West Chiverton 80 in. Pumping Engine. Supplement to The Engineer, Jan. 6, 1871. Portfolio of Working Drawings No. 40. Tracing paper.

VOLUME: 248 - (Location: D569 F7)

1. Baldwin Locomotive Works, Philadelphia, [Compound Locomotive]. Tracing 2288. Philadelphia: [1890]. Blueprint. See Barnett Manuscript Box Vol. 248, File 8 for related material.

2. Baldwin Locomotive Works, Valve & Bushing for the Baldwin Compound Locomotive. Tracing 2377. Philadelphia: [1890]. Blueprint. See Barnett Manuscript Box Vol. 248, File 8 for related material.

3. Baldwin Locomotive Works, Indicator Diagrams of Baldwin Compound Locomotive. Philadelphia: 1890. Blueprint. See Barnett Manuscript BoxVol. 248, File 8 for related material.

4. Baldwin Locomotive Works, Guides & Crosshead for the Baldwin Compound Locomotive. Tracing 2378. Philadelphia: [1890]. Blueprint. See Barnett Manuscript Box Vol. 248, File 8 for related material.

5. [Baldwin Locomotive Works], Cylinder No. 1656. [Philadelphia: 1890]. Blueprint. See Barnett Manuscript Box Vol. 248, File 8 for related material.

Location: D250 F3

6. [Chapman, Henry], "Webb's" 3 Cylinder Compound Passenger Engine. Crewe Works: 1882. Reynolds, Blogg & Leaver, plan Copyists, London. Medium weight paper.
Scale: 1 1/2 inches = 1 foot.
See Barnett Manuscript Box Vol. 248 for related material.

7. Chapman, Henry, "Webb's" 3 Cylinder Compound Passenger Engine. Crewe Works: 1882. Reynolds, Blogg & Leaver, Plan Copyists, London. Medium weight paper.
Scale: 1 1/2 inches = 1 foot.
See Barnett Manuscript Box Vol. 248 for related material.

VOLUME: 255 - (Location: D250 F3)

1. Standard Pilot. G.T.R. Mech. Dept. Drawing No. 1783. n.p.: 1881. Colour. Linen.
Scale: full size.
Signed by Herbt. Wallis, Mech. Supt.

VOLUME: 267 - (Location: D250 F3)

1. Wymer, C.R., Engineer, Underground Pumping Machinery and Endless Chain Haulage at the Russian Steam Navigation & Trading Co.'s Mine. Supplement to The Engineer, Sept. 8, 1882. Medium weight paper.

Location: D569 F7

2. Cornish Engine Series No. 4. Details of Pit Work. Denver[?] and Abraham Mine. Supplement to The Engineer, July 1, 1870. Portfolio of Working Drawings No. 35. Tracing paper.

VOLUME: 273 - (Location: D569 F7)

1. Cole's Mechanical and Chemical Oil Extracting and Waste Renovating Process. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

VOLUME: 288 - (Location: D569 F7)

1. General Plan Adapted for the Engine-House at Rivière du Loup Where the Turntable is Founded Directly Upon Rock....
n.p.: n.d. Colour. Linen.
Scale: 1/2 inch = 1 foot.

(Vol. 288 cont'd)

2. Dunn, Thomas, Engineer, Plan and Section of Dunn's Patent Wrot Iron Beam Turntable & Foundation for Loco Engine and Tender 550 feet Diam 5 ft. 6 in. Gauge. Manchester: 1867. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.

3. Isca Foundry Co., 42 Feet Turntable. 4 ft. 8 1/2 in. Gauge. Newport, Mon.[?]: n.d. Colour. Tracing paper.
Scale: 3/4 inch = 1 foot.

4. Dunn, Thomas, Engineer, [Dunn's Patent Wrot Iron Beam Turntable]. Manchester: 1867. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.

5. Plan for Seven Turntables at Brantford. [Montreal]: 1871. Colour. Linen.
Scale: 1/2 inch = 1 foot.
See Barnett Manuscript Box Vol. 288 for related correspondence addressed to R. Eaton.

6. Turn-Table for Lewiston. n.p.: n.d. Colour. Linen.
Annotation: "Exm. J.D.B. 20-7/74".

Location: D250 F3

7. Sellers Turntable & Details. Grand Trunk Railway Mech. Dept. Drawing No. 1265. n.p.: n.d. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Exm. J.D.B. 5/2/75."

Location: D570 F1

8. Turntable for Proposed Engine-Houses Toronto and Brockville. n.p.: n.d. Colour. Linen.
Scale: 1/4 inch = 1 foot.

9. Proposed Arrangement for Securing N.G. Rails to B.G. Turntables Point St. Charles. Grand Trunk Railway Mech. Dept. Drawing No. 1131. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

(Vol. 288 cont'd)

10. Turntable G.T. Shops. n.p.: n.d. Pencil on heavy drawing paper.
Scale: 1 1/2 inches = 1 foot.

11. Spiders, Centre Casting & Fort Erie Turntable. Grand Trunk Railway Mech. Dept. Drawing No. 996. n.p.: 1872. Colour. Linen.
Scale: 3 inches = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

12. For Turntable Fort Erie. n.p.: n.d. Colour. Linen.
Scale: 1/4 inch.

13. Traveller for Car Shops. n.p.: n.d. Colour. Linen.
Scale: 3/4 inch = 1 foot.

14. 40 Feet Turntable. Battersea Yard. LB & SCR. Supplement to The Engineer, April 12, 1872. Portfolio of working drawings No. 54. Tracing paper.

15. [Dunn, Thomas, Engineer, Manchester, Railway Turntable. Manchester]: n.d. Colour. Tracing paper.
Scale: 1/2 inch = 1 foot.
Drawing appears to have part missing.

16. [Side view of framing and truss structure for 50 ft. diameter turntable]. n.p.: n.d. Linen.
Scale: 1 inch = 2 feet.

17. [Detailed drawing of unidentified turntable]. n.p.: n.d. Colour. Linen.

VOLUME: 292 - (Location: D570 F1)

1. Ruston Proctor & Co., Engineers, Lincoln, 8 HP or 4', 6" Thrashing Machine. Sheet 1. Supplement to The Engineer, Dec. 10, 1880. Portfolio of Working Drawings No. 121. Tracing paper.

2. Ruston Proctor & Co., Engineers, Lincoln, 8 HP or 4', 6" Thrashing Machie. Sheet 2. Supplement to The Engineer, Dec. 17, 1880. Portfolio of Working Drawings No. 122. Tracing paper.

VOLUME: 303 - (Location: D250 F3)

1. Diagram of Standard Painting, Lettering, Striping &c. for Passenger Engines. G.T.R. Mech. Dept. Drawing No. 2753.
n.p.: 1889. Blueprint.
Scale: 3/4 inch = 1 foot.
Bears Signature Herbt. Wallis, Mech. Supt.

VOLUME: 306 - (Location: D570 F1)

1. Artificial Leg. n.p.: n.d. Colour. Tracing paper.
Scale: 4 inches =1 foot.
Diagrams show side and back view of an artificial leg and foot.

VOLUME: 309 - (Location: D250 F3)

1. Standard Narrow Gauge Box Car. Grand Trunk Railway Mech. Dept. Drawing No. 1027. n.p.: 1872. Colour. Linen.
Scale: 1 inch = 1 foot.
Signed by Richard Eaton.

Location: D570 F1

2. Plan for Freight Car. n.p.: n.d. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotated.

Location: D250 F3

3. New Flour Car. Grand Trunk Railway. Drawing No. 721.
m.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.

(Vol. 309 cont'd)

4. Standard Narrow Gauge Box Cars. (29'0" x 8'6"). Grand Trunk Railway Mech. Dept. Drawing No. 1252. n.p.: n.d. colour. Linen.
Scale: 1 inch = 1 foot.

5. Box Car. Grand Trunk Railway Mech. Dept. Drawing No. 876. n.p.: n.d. Colour. Linen.
Scale: 1 inch = 1 foot.
Bears rubber stamp: "R. Eaton, Supt."

Location: D570 F1

6. Standard Box Car. n.p.: n.d. Colour. Tracing paper.
Scale: 1 inch = 1 foot.
Signed by P. Clarke Jr. Aug. 22, 1863.

Location: D250 F3

7. [Box Car.] Drawing No. 475. n.p.: n.d. Tracing paper.

8. Under-Framing for New Grain Cars. Grand Trunk Railway. Drawing No. 543. n.p.: 1863. colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "EXd. P. Clarke."

Location: D250 F4

9. Combined View of Flour & Grain Car. Hamilton: 1862. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D570 F2

10. R. Eaton's Patent Flour Car. n.p.: n.d. Colour. Heavy drawing paper.

(Vol. 309 cont'd)

11. Walton, C.A., M.C.R.R. Stock Car. n.p.: 1874. colour. Linen.
Scale: 3/4 inch = 1 foot.
Bears rubber stamp: "Mechl. Supts. Office G.T.R. Montreal. Nov. 27, 1874."

12. Hopper Grain Car. n.p.: n.d. Linen.

Location: D250 F4

13. N.G. Cattle Car. Grand Trunk Railway Drawing No. 1099. n.p.: 1873. Colour. Linen.
Scale: 1 inch = 1 foot.

14. Mew 4 Wheel Drop Bottom Coal Car. P.R.R. Altoona: 1873. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.

15. New Gondola Drop Bottom Coal Car. Altoona; 1874. colour Linen.
Annotation: "Grand Trunk Railway Mech. Dept. Copied from the Tracings of the Pennsylvania Railroad of Oct. 19/74."

16. Standard Drop Bottom Gondola Car. P.R.R. n.p.: n.d. Colour. Linen.
Scale: 1 inch = 1 foot.
Signed by Herbt. Wallis, Mech. Supt.

18. New 8 Wheeled Drop-Bottomed Coal Car. P.R.R. Altoona: 1870. Colour. Linen.
Scale: 1 1/2 inches = 1 foot.
Annotation: "Copied from the P.R.R. Tracing of Oct. 19, 1874."

VOLUME: 318 - (Location: D570 F2)

1. Plan of Proposed New Grand Trunk Literary & Scientific Institute. n.p.: 1873. Colour. Linen.
Scale: 1/4 inch = 1 foot.

VOLUME: 320 - (Location: D570 F2)

1. Dunn, Thos., Windsor Bridge Iron Works, Manchester, Wharf Crane to Lift Ten Tons. Manchester: n.d. Colour. Tracing paper.
   Scale: 3/4 inch = 1 foot.
   Printed backwards.

2. Cornish Engine Series. Capstan & Shears with 5"0 Cornish Engine. Supplement to The Engineer, Jan. 7, 1870. Portfolio of Working drawings No. 29.

3. Cornish Engine Series No. 2. Details of Iron Work of Capstan & Shears. Supplement to The Engineer, March 4, 1870. Portfolio of Working drawings No. 31.

VOLUME: 330 - (Location: D570 F2)

1. Clay's Breech Loading Cannon Fired at 18 Rounds Per Minute. Traced from Artizan, July, 1861. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.

VOLUME: 347 - (Location: D570 F2)

1. Smith Beacock & Tannett, Victoria Foundry, Leeds, Fountation for 18 ins. Expanding Cap Lathe. Leeds: Smith Beacock & Tannett, n.d. Tracing paper.
   Scale: 1/2 inch = 1 foot.

2. Expanding Mandrell. n.p.: n.d. Tracing paper.

3. Fairbairn Kennedy & Naylor, Duplex Wheel Lathe with Foundation. Leeds: 1872. Tracing paper.
   Scale: 3/4 inch = 1 foot.
   Annotation: "Copy J.D.B. 26-12/72."

4. Canada Tool Works, Dundas, 7 ft. Craven Wheel Lathe Construction. Dundas, Ont.: 1890. Blueprint.
   Scale: eighth size.

VOLUME: 348 - (Location: D570 F2)

1. Machine Tool Works, Fred. B. Miles, Engineer, Machine for Slotting the Ports of Locomotive Cylinders. Philadelphia: 1880. Linen.
   See Barnett Manuscript Box Vol. 348 for related correspondence.

VOLUME: 349 - (Location: D570 F3)

1. Gilbert, Hydraulic Punch. G.T.R. No. 1103. Montreal: n.d. Tracing paper.
   Scale: full size.

2. Portable Punching Machine to Punch 7/8 Hole in 1/2" Plate. n.p.: n.d. Tracing paper.
   Scale: full size.
   Bears initials "G.B."

3. Sharp Brothers & Co., Revolving Shears. Manchester: 1840. Colour. Tracing paper.
   Scale: 3 inches = 1 foot.

4. Furrel, E.W., Designer, Portable Punching Machine for Punching Small Holes Thro. Wrot Iron Plates.... From Engineer, May 24, 1867. p. 468. Tracing paper.

5. Makay and MacGeorge, London, Punching & Rivetting Machine. London: n.d. Tracing paper.

6. John Brown & Co., Ltd., Atlas Steel & Iron Works, Punching, Shearing & Conical Rolling Machine. Sheffield: 1868. Colour. Tracing paper.
   Scale: 1 1/2 inches = 1 foot.
   Signed by R. Eaton.

[Ornate Inscription for Memorial Stone?]. "James Lacy Born 24th of February 1765 Departed this Life 27th March 1837. Mary his Wife Born 17th Nov. 1761 Departed This Life 21 December 1846." n.p.: n.d. Colour. Heavy drawing paper. Annotation: "No 5 corrected from Sketch No. 4."

VOLUME: 363 - (Location: D570 F3)

1. Details of Stone-Work for Sluice-Gates on Canal Quinino Sella. Sheet I. Supplement to The Engineer, Dec. 18, 1874. Portfolio of Working Drawings No. 82. Tracing paper.

2. Details of Sluice Gates & Mechanism for Working Them. Canal Quintino Sella. Sheet II. Supplement to The Engineer, Dec. 25, 1874. Portfolio of Working Drawings No. 83. Tracing paper.

3. Olander, E., Executive Engineer, Sreeramadavaru Dam and Head works. (Hassan District Mysore.) Supplement to The Engineer, June 12, 1874. Portfolio of Working Drawings No. 75. Tracing paper.

VOLUME: 380 - (Location: D570 F3)

1. Chair. n.p.: n.d. Colour. Heavy drawing paper.
Scale: Half Size.

VOLUME: 392 - (Location: D250 F4)

1. New Pumping Engine. Stafford Road. G.W.R. n.p.: 1863.
Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D570 F3

2. Barnett, John Davis, New Shop Engine. Swindon: 1866.
Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

3. Barnett, John Davis, Details of Frame &c. for Model Stationary Engine Bordsley. n.p.: 1865. Colour. Linen.

4. [Stationary Engine]. n.p.: n.d. Linen.

(Vol. 392 cont'd)

Location: D250 F4

5. Stationary Engine. Richmond Shed. Grand Trunk Railway Drawing No. 1314. n.p.: n.d. Colour. Linen.
Scale: 3 inches = 1 foot.

VOLUME: 399 - (Location: D570 F3)

1. Beers, William H., Architect, Details of Cottage at Babylon, N.Y. and Rae, Robert, Jr., Architect, Details of Farragut Club House, Chicago, Ill. From Architects and Builders Edition of Scientific American for Feb., 1887. Printed on both sides.

VOLUME: 392 - (Location: D250 F4)

1. New Pumping Engine. Stafford Road. G.W.R. n.p.: 1863. Colour. Linen.
Scale: 3 inches = 1 foot.

Location: D570 F3

2. Barnett, John Davis, New Shop Engine. Swindon: 1866. Colour. Tracing paper.
Scale: 1 1/2 inches = 1 foot.

3. Barnett, John Davis, Details of Frame &c. for Model Stationary Engine Bordsley. n.p.: 1865. Colour. Linen.

4. [Stationary Engine]. n.p.: n.d. Linen.

(Vol. 392 cont'd)

Location: D250 F4

5. Stationary Engine. Richmond Shed. Grand Trunk Railway Drawing No. 1314. n.p.: n.d. Colour. Linen. Scale: 3 inches = 1 foot.

VOLUME: 400 - (Location: D250 F3)

1. Palliser, Geo., Architect, Drawings for Counter in Banking Room of New Milford Savings Bank. The Detail Sheet of the American Builder. New York: 1878.

VOLUME: 403 - (Location: D570 F3)

1. Design for a Dwelling House for P. Phipps Esq. to be Erected on Duke St. London Ont. n.p.: 1875. Colour. Heavy drawing paper. Annotation: "Canadian Architects Contract Drawing."

2. Schweitzer, B.J., Architect, Dwelling at Rutherford, N.J. and Sargent, Edward A., Architect, St. James' Rectory, Fordham, N.Y. From Architects and Builders Edition of Scientific American, Jan., 1887. Printed on both sides.

3. Stark, Joseph A., Architect, Plans and Details of a House at Orange, N.J. and Plans, Elevations, and Detail Drawings of a House After Enlargement. From Architects and Builders Edition of Scientific American from May, 1887. Printed on both sides.

4. A Suburban Residence. and A Cottage of Moderate Cost. From Architects and Builders Edition of Scientific American for March, 1888. Printed on both sides.

5. Hebberd, Chas. E., Architect, City Frame Houses of Moderate Cost. and A Dwelling for $2,500. From Architects and Builders Edition of Scientific American for Nov., 1887. Printed on both sides.

(Vol. 403 cont'd)

Location: D570 F4

6. Residence of F.W. Coolbaugh, Esq., Burnett Street, East Orange, N.J. and A Cottage Adapted for Future Enlargement. From Architects and Builders Edition of Scientific American for April, 1887. Printed on both sides.

7. A Suburban Residence. and A Dwelling of Moderate Cost. From Architects and Builders Edition of Scientific American, for Dec., 1887. Printed on both sides.

8. Two Dwellings at Orange, New Jersey. From Architects and Builders Edition of Scientific American for Feb., 1888. Printed on both sides.

9. A Double House for $2,500. and A Cottage of Moderate Cost. From Architects and Builders Edition of Scientific American for May, 188. Printed on both sides.

10. H.G. Knapp & Co., Architects, Details of Country Dwelling. and Frederic, W. Claude, Architect, Design for a Brick Row of Moderate Cost. From Architects and Builders Edition of Scientific American for Dec., 1886. Printed on both sides.

11. Detail Sheet of the American Builder. New York: Chas. D. Lakey, Publisher, May, 1878. Shows parlor and sitting roomDetails dy Albert M. West, Architect, Bridgeport, Conn.

12. Helmle, Geo. H., Architect, Springfield, Ill., Elevations, Plans and Details of an Italian Villa. n.p.: n.d.

13. [Plan of unidentified house]. Possibly barnett's home in Stratford. n.p.: n.d. Pencil sketch on heavy paper.

VOLUME: 409 - (Location: D570 F4)

1. Central Cottage Improvement Society, London, Labourers Cottages. Prize Design. From Engineer, Oct. 14, 1870. p. 359. Tracing paper.

(Vol. 409 cont'd)

2. Plan of 3 Cottages with Wash House and Necessary Offices Attached. n.p.: 1865. Colour. Tracing paper.
Scale: 1/8 inch = 1 foot.
1/4 inch = 1 foot.

VOLUME: 421 - (Location: D570 F4)

1. [Ornate Inscription]. "Unto Death Be Thou Faithful and I Will Give Thee A Crown of Life." n.p.: n.d. Colour. Tracing paper mounted on medium weight white paper.

VOLUME: 424 - (Location: D570 F4)

1. Barnett, George, Whistles. n.p.: 1866. Colour. Tracing paper.
Scale: full size.

2. Shop Whistle - Stratford. n.p.: n.d. Colour. Tracing paper.
Annotation: "Copy 24-6/73."

3. [Whistle]. n.p.: n.d. Colour. Linen. Drawings show elevation and section. Measurements given.

4. Whistle for Convertable Engines. Grand Trunk Railway Mech. Dept. Drawing No. 577. n.p.: 1872. Colour. Linen.
Scale: half size.
Bears rubber stamp: "R. Eaton, Supt."

5. Large Size Steam Whistle. Grand Trunk Railway Mech. Dept. Drawing. n.p.: n.d. Colour. Linen.
Scale: half size.

6. Guage Glass for Engines W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 783. n.p.: n.d. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

7. Barnett, George, Section of Brass Safety Valve Cover (on Fire Box). n.p.: 1866. Tracing paper.

(Vol. 424 cont'd)

Location: D570 F5

8. Blow Off Cock. n.p.: n.d. Tracing paper.
Scale: full size.

Location: D250 F4

9. 6 ft. Wheel Coupled Engines Boiler Mountings Renewals "A". G.W.R. n.p.: n.d. Colour. Tracing paper, mounted on linen.
Scale: 1 1/2 inches = 1 foot.
full size.

Location: D750 F5

10. Fire Box Mountings for Engines No. W.X.Y.Z. Grand Trunk Railway Mech. Dept. Drawing No. 632. n.p.: 1872. Colour. Linen.
Scale: full size.
Bears rubber stamp: "R. Eaton, Supt."

Location: D250 F4

11. Cab - Fire Box & Boiler Mountings for Narrow Gauge Engines S.T.U.V. Grant Trunk Railway Mech. Dept. Drawing No. 962. n.p.: n.d. colour. Linen.
Scale: 1 1/2 inches = 1 foot.

Location: D570 F5

12. Gauge Cocks for Pass. Engine K. n.p.: n.d. Colour. Linen.

13. Chime Whistle for Passenger Engines. G.T.R. Motive Power Dept. Drawing No. 3336. n.p.: 1896. Blueprint.
Scale: half size.
See Barnett Manuscript Box Vol. 424, File 6 for related correspondence.

(Vol. 424 cont'd)

14. Corlies & White, Chicago, The New Hornish Mechanical Locomotive Boiler Cleaner. Chicago: n.d. Blueprint.
Scale: full size.

15. [Unidentified guage]. n.p.: n.d. Colour. Linen.
Meausrements given.

VOLUME: 425 - (Location: D570 F5)

1. No. 4 Fire Grate. Used for Wood & Peat Burning. n.p.: n.d. Colour. Tracing paper.
Scale: half size.

2. New Grate No. 96 Engine. G.T.R. n.p.: n.d. Colour. Tracing paper.
Scale: 1/4 size.

3. Bowman's Grate. n.p.: n.d. Colour. Linen. Signed by Bowman.

4. Welch's Fire-Grate. n.p.: n.d. Colour. Linen.

5. Barnett, George, New Arrangement for Fire Bar Carrier. G.W.R. n.p.: 1865. Colour. Tracing paper.
Scale: 3 inches = 1 foot.
full size.

6. [Unidentified fire grate]. n.p.: n.d. Linen. Drawings show elevation, cross section, top and bottom plans.

7. [Unidentified grate]. n.p.: n.d. Tracing paper.

8. [Unidentified grate. rocking bar]. n.p.: n.d. Tracing paper.

VOLUME: 435 - (Location: D250 F4)

1. Crosbie, J.W., Illustrating Paper on Hop-Scotch. Enlarged from Plate No. 16. Vol. 15. 1886. Journal of Anthropolotical Institute. Heavy drawing paper.

BARNETT, John Davis

MG 30 B 86

MAPS

VOLUME: 51 - (Location: D571 F1)

1. A Map of Ancient Aegypt from Celarius. n.d.

2. [Nile River]. n.p. Colour. Scale: 1/10,000,000.

3. Rennie, G.B., Plan Improving the Soulina Mouth of the River Canube. Plate 78. From The Aritzan Journal, 1856. Colour.

4. Rennie, G.B., Plan of the Delta of the River Danube Shewing the Proposed Improvements of the Sulina Branch, from Isaktcha to Soulina. Plate 77. From The Artizan Journal, 1856.

5. Scizze des Donaustromes von Nussdorf bis zu den Hauptbrucken. [River Regulation.] Allgem. Bauzeitung 1850.

6. Die Regulirung der Donau betreffend. Allgem. Bauzeitung 1850.

7. Die donaumundungen. Allgem. Bauzeitung 1857.

Location: D570 F6

8. [Illustrated Map of the Rhine River from Coln to Mainz.] n.d.
   Annotation: "Mrs F.A. Wattles. Cologne. 1867 & 1871."

VOLUME: 60 - (Location: D570 F6)

1. Ruley, Wm. W., Chief of Bureau of Anthracite Coal Statistics, Dept. of the Interior, U.S. Geological Survey, General Map of the Anthracite Coal Fields of Pennsylvania. Diagram and Tables Showing the Annual Production of Anthracite Coal in Pennsylvania Since 1820.... ca. 1900. Colour.

VOLUME: 76 - (Location: D571 F1)

1. Plat [sic.] of the Passes of the Mississippi River. From Engineering News, July 29, 1876. Lith.: Bird & Mikle, Jackson, Mich.

2. Kaart Van De Delta Van Den Mississippi. Plaat XVIII. Kon. Inst. V. Ing. Notulen 1883-1884. Typo-Autographie. Gedrukt bij den Hertog.

3. Map of the Lower St. Lawrence and Saguenay Rivers Engraved for Chisholm's Guide. n.d.

4. Elliott, H.C., Map of the Valley of the Amazon to Accompany Lt. Herndon's Report. n.d. Senate, Ex. Doc. No. 36, 2d Sess. 32d. Cong. Lith.: A. Hoen & Co., Balt. Colour.

Location: D 250 F5

5. Tyssowski, John, Map of the Rivers Huallaga, Ucayali & Amazon from the Obervations of Lieut. Wm. L. Herndon U.S.N. n.d. Senate, Ex. Doc. No. 36, 2d Sess. 32d. Cong. Lith.: A. Hoen & Co., Baltimore.

Location: D570 F6

6. Richardson, J. and Barlow, S., Geological Survey of Canada, Topographical Plan of the Magdalen River. 1857. Lith.: G. Matthews, Montreal.
Scale: 80 chains to an inch.
Upper left corner has been cut off.

(Vol. 76 cont'd)

Location: D571 F1

7. Mississippi. Verdeelpunt. Plaat XXI. 1879. Kon. Inst. V. Ing. Notulen 1883-1884. Typo-Autographie. Gedrukt bij den Hertog.

8. Plan del curso de los Rios Huallaga Y Ucayali y de la Pampa Del Sacramento. n.d. Senate, Ex. Doc. No. 36, 3d. Sess. 32d. Cong. Lith.: A. Hoen & Co., Baltimore.

VOLUME: 86 - (Location: D571 F1)

1. The World on Mercator's Projection, Shewing the 24 Hour Meridians for Regulating Standard Time. n.d. Stanford's Geogl. Estabt., London.

VOLUME: 93 - (Location: D570 F6)

1. McConnell, R.G. and Brock, R.W., Dept. of the Interior, Map of Frank and Vicinity Showing Landslide. n.d. Compiled and Drawn by W.H. Boyd. Colour.
Scale: 5 inches = 1 mile.

2. Dept. of the Interior, Map Showing Section of Mountain and Vicinity of Frank. n.d.
Scale: 5 inches = 1 mile or 1 inch = 1056 feet.

VOLUME: 103 - (Location: D570 F6)

1. Trenovie costrutte, in costruzione, e progettate nella Provincia di Milano e finitime a tutto Marzo. Tav. 2. 1881.
[Railways &c. in province of Milan.]

(Vol. 103 cont'd)

2. Eisenbahn-Uebersichtskarte von deutschland und den angrenzenden Landern. Zum Reichs-Kursbuch. Sommer 1892. Colour. Bearbeitet im Kursbureau des Reichs-Postamts. Geogr. lith. Anst. u. Steindr. v. C.L. Keller, Berlin S.
Scale: 1: 2200000.
Printed on the Reverse: Hauptverkehrslinien von Europa, & Maps of the Major German Cities, etc.

VOLUME: 134 - (Location: D570 F6)

1. U.S. Coast Survey, Ben. Peirce, Supt., Comparison of Changes... of New York Harbor Between the Surveys of 1855 Capt. J.A. Carven and 1871 H.L. Marindin Exhibiting the Shoaling Caused by Deposits of Dredgings and Ashes. 1872. Colour.
Scale: 1:10000.
To Accompany Paper on the Changes in New York Harbor: No. 1 by Henry Mitchell, Chief of Physical Hydrography, U.S. Coast Survey.

VOLUME: 140 - (Location: D570 F6)

1. Oliphant, F.H., Known Oil and Gas Fields of the United States with Possible Extensions of Both. Land Classification Map. c.a. 1899. Colour. Engraved by U.S. Geological Survey.

Location: D571 F1

2. Geological Map of Ohio, Showing the Positions of the Oil and Gas Wells. From Science, June 25, 1886. Printed by J.N. Bradford, Del.
For Related Clipping, see Barnett Manuscript Box Vol. 140, File 4.

(Vol. 140 cont'd)

Location: D570 F6

3. Oliphant, F.H., Known Oil and Gas Fields of the United States. Land Classification Map. 1903. Colour. Engraved by U.S. Geological Survey.

VOLUME: 147 - (Location: D571 F2)

1. Kent. [From Universal Magazine 11 - 1792.] Engraved by B. Baker, Islington.

2. Hampshire. [From Universal Magazine 7 - 1792.] Engraved by B. Baker, Islington.

3. Great Eastern Railway. England. n.d. Colour.

4. Hereford. Plate XIV from Encyclopeaedia Britannica, 9th ed. Vol. XI. Printed by J. Bartholomew, Edinburgh. Colour.

5. Kent. Plate I. From Encyclopaedia Britannica, 9th Ed. Vol. XIV. Printed by J. Bartholomew, Edinburgh. Colour.

6. Devon. Plate III. From Encyclopaedia Britannica, 9th ed. Vol. VII. Printed by J. Bartholomew, Edinburgh. Colour.

7. Middlesex. Plate III. From Encyclopaedia Britannica, 9th Ed. Vol. XVI. Printed by J. Bartholomew, Edinburgh. Colour.

8. Northampton & Bedford. Plate XVII. From Encyclopaedia Britannica, 9th Ed. Vol. XVII.
Printed by J. Bartholomew, Edinburgh. Colour.

9. Warwick. Plate VIII. From Encylopaedia Britannica, 9th ed. Vol. XXIV. Printed by J. Bartholomew. Colour.

10. Somerset. Plate III. From Encyclopaedia Britannica, 9th Ed. Vol. XXII. Printed by J. Bartholomew. Colour.

11. Surrey. Plate X. From Encyclopaedia Britannica, 9th ed. Vol. XXII. Printed by J. Bartholomew. Colour.

(Vol. 147 cont'd)

12. Suffolk. Plate VIII. From Encyclopaedia Britannica, 9th ed. Vol. XXII. Printed by J. Bartholomew. Colour.

13. Westmorland. Plate XII. From Encyclopaedia Britannica, 9th ed. Vol. XXIV. Printed by J. Bartholomew. Colour.

14. Sussex. Plate XI. From Encyclopaedia Britannica, 9th ed. Vol. XXII. Printed by J. Bartholomew. Colour.

15. Wilshire. Plate XIV. from Encyclopaedia Britannica, 9th ed. Vol. XXIV. Printed by J. Bartholomew. Colour.

Location: D571 D2

16. Shropshire, Stafford & Cheshire. Plate VIII. From Encyclopaedia Britannica, 9th ed. Vol. XXI. Printed by J. Bartholomew. Colour.

17. York. Plate XVIII. From Encyclopaedia Britannica, 9th ed. Vol. XXIV. Printed by J. Bartholomew. Colour.

Location: D571 F2

18. Russia. Plate III. From Encyclopaedia Britannica, 9th ed. Vol. XXI. Printed by W. & A.K. Johnston. Colour.

19. Russia. Plate II. From Encyclopaedia Britannica, 9th ed. Vol. XXI. Printed by W. & A.K. Johnston. Colour.

20. England and Wales. n.d. Colour. [Gives Population for 1831.]

21. Great Western Railway Map. Southern Section. n.d. Colour.
Lith.: Wyman & Sons, Ltd., Reading & London.
Scale: 1 inch = 18 miles.
Maps of Channel Islands, Guernsey and Jersey on Reverse.

22. Great Western Railway Map. Southern Section. n.d. Colour.
Lith.: Wyman & Sons, Ltd., Reading and London. Scale:
Scale: 1 inch = 18 miles.
Maps of Channel Islands, Guernsey and Jersey on Reverse.
Not Identical to Map 21.

(Vol. 147 cont'd)

Location: D 250 F 5

23. London & North Western Railway Time Table Maps. Northern Section. Southern Section. London & Environs. Railway Map of Scotland. Railway Map of England. n.d. Colour. McCorquodale & Co., Ltd., Engravers. Printed on both sides.

VOLUME 150 - (Location: D570 F6)

1. Lynch, F.C.C., Supt. of Railway Lands, Dept. of the Interior, Canada, British Columbia Railway Belt Port Moody and Yale Sheet West of Sixth and Seventh Meridians. 1913. Colour. Scale: 1:190,080 or 1 inch = 3 miles.

Location: D250 F5

2. Lynch, F.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Alberta Southern. Map Showing Disposition of Lands. 15th ed. 1917. colour. Scale: 1:792,000 or 1 inch = 12 1/2 miles.

3. Lynch, F.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Saskatchewan. Map showing Diuspositon of Lands. 15th ed. 1917. colour. Scale: 1:792,000 or 1 inch = 12 1/2 miles.

4. Lynch, F.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Manitoba. Map Showing Disposition of Lands. 15th ed. 1917. Colour. Scale: 1: 792,000 or 1 inch = 12 1/2 miles.

5. Lynch, F.C.C., Supt. Railway Lands Branch, Dept. of the Interior, Canada, Cereal Map of Saskatchewan Showing Acreage Under Crop in each Township in Wheat, Oats, Barley and Flax During 1915. 4th ed. 1916. Colour. Scale: 1:792,000 or 1 inch = 12 1/2 miles.

(Vol. 150 cont'd)

6. Lynch, F.C.C., Supt. Railway Lands Branch, Dept. of the Interior, Canada, Cereal Map of Alberta Southern Showing Acreage Under Crop in each Township in Wheat, Oats, Barley and Flax During 1915. 4th ed. 1916. Colour.
Scale: 1:792,000 or 1 inch = 12 1/2 miles.

Location: D570 F6

7. Lynch, F.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Map Showing Branches of Chartered Banks in Ontario and Quebec. 3rd ed. 1917. Colour.
Scale: 1 inch = 25 miles.
See Map 13 for Related Chart.

8. Lynch, R.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Map Showing Branches of Chartered Banks in Manitoba, Saskatchewan and Alberta. 3rd ed. 1917. Colour.
Scale: 1 inch = 25 miles.

Location: D250 F5

9. Dept. of Public Works, Saskatchewan, Map of the Southern Part of the Province of Saskatchewn Canada. 1913. Colour.
Scale: 1:633,600 or 1 inch = 10 miles.
In 2 parts. See Map 10 for other part of map.

10. [Dept. of Public Works, Saskatchewan, Map of the Southern Part of the Province of Saskatchewan Canada. 1913.]
In 2 parts. See Map 9 for other part of map.

Location: D570 F6

11. Lynch, F.C.C., Supt. of Railway Lands, Dept. of the Interior, Canada, Southern British Columbia. Map Showing Dispositon of Lands. 4th ed. 1914. Colour.
Scale: 1:500,000 or 1 inch = 7.89 miles.

(Vol. 150 cont'd)

Location: D250 F5

12. Lynch, F.C.C., Supt. of Railway Lands Branch, Dept. of the Interior, Canada, Cereal Map of Manitoba Showing Acreage Under Crop in each Township in Wheat, Oats, Barley and Flax, During 1915. 4th ed. 1916. Colour.
Scale: 1:792,000 or 1 inch = 12 1/2 miles.

Location: D570 F6

13. Lynch, F.C.C., Supt. Natural Resoruces Intelligence Branch, Chart Showing Branches of Chartered Banks and Post Office Savings Banks in Ontario and Quebec. 1917.
Prepared to accompany Bank Map of Ontario and Quebec.
See Vol. 150 Map 7.

14. Lynch, F.C.C., Supt. Natural Resources Intelligence Branch, Dept. of the Interior, Canada, Map Showing Elevations in Manitoba, Saskatchewan and Alberta. 7th ed. 1917. Colour.
Scale: 1 inch = 25 miles.

VOLUME: 171 - (Location: D570 F6)

1. Commission of Conservation, Canada, Coal Consumption of Railways in Canada. n.d. Colour.
Scale: 1 inch = 100 miles.
Base map from plate of Map of Dominion of Canada, Dept. of Interior.

VOLUME: 189 - (Location: D571 F3)

1. Our Ocean Highways. Map of Europe Shewing Principle Lines of Steam Communication. 1871-2. Colour.
Lith.: T. Pettitt & Co., Soho. Stanford's Geographical Establishment, London.

(Vol. 189 cont'd)

2. Our Ocean Highways. Map of the British Isles Shewing the Principal Local Communications by Steamer. 1871-2. Colour. Lith.: T. Pettitt & Co., Soho. Stanford's Geographical Establishment, London.

3. Our Ocean Highways. Chart of the World Shewing Principal Ocean Steam Lines. 1871-2. Colour. Lith.: T. Pettitt & Co., Soho. Stanford's Geographical Establishment, London.

4. Dominion of Canada. n.d. Includes distance between Europe and America and from West Coast of America.

VOLUME: 202 - (Location: D571 F3)

1. [Map of East Central England]. n.d. Colour. Annotation: "Drainage Bedford Level".

2. Uebersichtskarte der in der Gegend von Celle (Provinz-Hanover) ausgefuhrten Landes-Meliorationen. Uebersichtskarte der Muden-Nienhofer Meliorations-Anlage. 1883. Colour. Lith.: Anst. v. F. Wirtz, Darmstadt. Annotation: "Land Drainage & Improvements".

3. [Map of East Central England Rivers Draining into The Wash. Witham Valley, Welland Valley, Nene Valley and Ouse Valley]. n.d. Colour. Hand drawn on linen. Annotated.

VOLUME: 207 - (Location: D570 F6)

1. Map of Northern Parts of the Districts of Algoma and Nipissing Province of Ontario to Accompany Report of J.M. Bell 13th Report Bureau of Mines 1904. Scale: 1 inch = 8 miles.

(Vol. 207 cont'd)

Location: D571 F3

2. Coleman, A.P., Lake Iroquois. Parts in New York After H.L. Fairchild. 13th Report of the Bureau of Mines. 1904. Colour. Drawn by S.B. Wass.

Location: D570 F6

3. Coleman, A.P., Map of Northern Nickel Range to Accompany 13th Report of the Bureau of Mines. 1904. Colour. Scale: 1 inch = 2 miles.

Location: D571 F3

4. Ontario. n.d. Colour. Hunt & Eaton, New York. Printed by Fisk & Co., N.Y. Shows the Counties.

Location: D250 F5

5. Dept. of the Secretary of State of Canada, Dominion Lands Office, Map of the Province of Manitoba, Shewing the Surveys Effected in 1871. 1872. Colour. Scale: 1 inch = 4 miles.

VOLUME: 219 - (Location: D571 F3)

1. North Circumpolar Chart. South Circumpolar Chart. Plate II. From Encyclopaedia Britannica, 9th Ed. Vol. XIX. Colour. Printed by W. & A.K. Johnson.

VOLUME: 220 - (Location: D571 F3)

1. Arctic Regions. 1902. Colour.
Copyright: Dodd, Mead & Co.

2. North Polar Region (Arctic Ocean). n.d. Colour.
Fisk & Co. Engravers, N.Y.

3. The Arctic Regions. n.d. Colour.
Lith.: J. Bien Photo.

4. Chart of the Arctic Ocean, Illustrating the Route of Peary's North Greenland Expedition of 1891-'92 and Other Arctic Expeditions. from Goldthwaite's Geographical Magazine, May, 1891. The Norris Peters Co., Photo-Litho., Washington, D.C.

5. Boas, F., Arctic America. Eastern Sheet. From Science, July 1, 1887. Colour.
Scale: 1:10,000,000.

6. Map of the Upper Yukon River. From Science, April 20, 1888. No. 272.
Scale: 1:3,000,000.

7. [Western Arctic]. Annotation: "Journal Royal Geographical Soc. Vol. 8/36."
London & Westminster Review. Vol. XXXI. No. II.

VOLUME: 222 - (Location: D571 F3)

1. Map of Mexico, Central America, and the West Indies. Colour.
Constructed & Engraved by W. Williams, Philadelphia. Entered According to Act of Congress, in the year 1860 by S. Augustus Mitchell, Jr. in the Clerks Office of the District Court of the U.S. for the Eastern District of Pennsylvania.

2. Plan of the Nicaragua Ship Canal as Relocated by A.G. Menocal, in Charge of the U.S. Surveying Expediton of 1885. From Science, Oct. 14, 1887. No. 245. Colour.

(Vol. 222 cont'd)

Location: D570 F6

3. Map of Central America, Showing the Interoceanic Routes Recommended by the French Commission Under Commander L.N.B. Wyse. From Science, March 26, 1886.

VOLUME: 224 - (Location: D250 F5)

1. Map of the Dominion of Canada Showing the Position of the Canals Constructed by the Govt. of Canada for Connecting the Lakes with the Ocean by the Valley of the St. Lawrence, and Also the Enlargement and Extension of the Canal System Recommended by the Canal Commissioners and the Other Proposed Improvements.... 1871. Colour.
Samuel Keefer, M. Inst. E.C., Secretary to the Canal Commissioners.
P.B. Symes, Draughtsman.

VOLUME: 226 - (Location: D571 F4)

1. Proposed Canal from Bay Verte to Cumberland Basin. Re-engraved to Accompany W.J. Patterson's Annual Report for 1867.
Lith.: Burland Lafricain & Co., Montreal.

Location: D570 F6

2. Drientirungs-Carte Uber die bestehenden und vorgeschlagenen Canalverbindungen Russlands. Allgem. Bauzeitung 1851.
zu Seite 212.

Location: D571 F4

3. Canal de Beaucaire. (Desséchemens et Irrigations.) Pl. XX.
n.d. Annales des Ponts et Chaussées. Gravé par Adam.

(Vol. 226 cont'd)

4. Canal Latéral a La Garonne. Pl. XXIII. n.d. Annales des Ponts et Chaussées. Gravé par Adam.

5. Canal Latéral a la Loire. (Traversée de la Loire Près Briare.) Pl. XXIV. n.d. Annales des Ponts et Chaussées. Gravé par Adam.

6. Navigation Intérieure. -- Ports Maritimes. Pl. LXXVIII. n.d. Annales des Ponts et Chaussées. Gravé par Adam.

7. Navigation--Canaux. (Suède.) Pl. LXXXII. n.d. Annales des Ponts et Chaussées. Gravé par Adam.

8. Kanal durch die insel Voorne. Allgem. Bauzeitung 1858.

9. Wiederaufbau der ostlichen Ufermauer des Grossen Schifffahrtscanales zu Veredig. Allgem. Bauzeitung 1852.

Location: D570 F6

10. Entwurf zu einem Canal zwischen der Donau and der Theiss in Ungarn. Allgm. Bauzeitung 1849.

VOLUME: 228 - (Location: D571 F4)

1. Map Showing the Canadian Pacific Ry. in the Vicinity of Summit of Selkirk Range. n.d. Blueprint.
Scale: 1 inch = 4000 ft.

Location: D570 F6

2. Southwest Minnedosa. Plan of the Jermyn Survey Being a Subdivision of the South East Quarter of Section No. 2 Township 15 Range 18 West - Manitoba. n.d.
Scale: 1 inch = 110 feet.

VOLUME: 229 - (Location: D571 F4)

1. Plan of the Harbour of Louisburg, Island of Cape Breton. From Canadian Journal, Jan. 1853. S.J. Stratford.

2. Map of New Brunswick, Nova Scotia and Prince Edward Island. Copyright, 1891, by the Matthews-Northrup Co., Complete Engraving & Printing Works, Buffalo and New York. Scale: 1 inch = 37 miles.

VOLUME: 234 - (Location: D571 F4)

1. Uebersichtskarte der Eisenbahnen im Konigreich Hannover. Allgem. Bauzeitung 1851.

2. Das Sardinische Eisenbahnnetz. Allgem. Bauzeitung 1851. Annotation: "Sardinian R'Ways Plan & Sections-(Profile)."

VOLUME: 236 - (Location: D570 F7)

1. Map of Oregon Showing Southern Pacific and Connecting Lines, Stage Routes, etc. Revised and corrected up to July, 1903. Colour.

VOLUME: 238 - (Location: D570 F7)

1. Prospetto Delle Tramvie a Tutto Marzo 1881 Nel Comune di Milano.
Annotation: "Milan City Tram Ways".

VOLUME: 239 - (Location: D571 F4)

1. B.C. Electric Ry. Co. Ltd. Supplement to The Railway and Marine World, Toronto, Jan. 1911. Colour.
Annotation: "Electric Ry. Map Vancouver east."

VOLUME: 242 - (Location: D571 F4)

1. United States Railway Construction in 1891. Engineering News Series of Maps: No. 31. Supplement to Engineering News, Feb. 28, 1891.
Lith: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 150 miles.

Location: D571 F5

2. United States. Railway Construction in 1892. Engineering News Series of Maps: No. 41. Supplement to Engineering News, March 5, 1892.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 150 miles.
See Barnett Manuscript Box Vol. 242 for related clipping.

3. Southern States. Engineering News Series of Maps: No. 43. Supplement to Engineering News, June 23, 1892.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale; 1 inch = 50 miles.
See Barnett Manuscript Box Vol. 242 for related clipping.

4. States East of Chicago. Engineering News Series of Maps: No. 42. Supplement to Engineering News, April 9, 1892.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.
See Barnett Manuscript Box Vol. 242 for related clipping.

(Vol. 242 cont'd)

5. North Western States. Engineering News Series of Maps: No. 37. Supplement to Engineering News, Aug. 1, 1891.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.
See Barnett Manuscript Box Vol. 242 for related clipping.

6. United States. Engineering News Series of Maps: No. 40.
Supplement to Engineering News, Jan. 23, 1892.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 150 miles.
See Barnett Manuscript Box Vol. 242 for related clipping.

7. South-Western States. Engineering News Series of Maps: No. 38. Supplement to Engineering News, Oct. 3, 1891.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles

8. Far Western States. Engineering News Series of Maps: No. 39. Supplement to Engineering News, Nov. 28, 1891.
Lith.: Chas. Hart & Sons, N.Y. Colour.
See Barnett Manuscript Box Vol. 242 for related clipping.

9. Southern States. Engineering News Series of Maps: No. 36.
Supplement to Engineering News, June 13, 1891.
Lith: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

10. Southern States. Engineering News Series of Maps: No. 26.
Supplement to Engineering News, June 14, 1890.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

11. South-Western States. Engineering News Series of Maps: No. 6. Supplement to Engineering News, March 3, 1888.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

12. North Western States. Engineering News Series of Maps: No. 5. Supplement to Engineering News, Jan. 28, 1888.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

13. Far Western States. Engineering News Series of Maps: No. 8.
Supplement to Engineering News, March 31, 1888.
Lith.: Chas Hart & Sons, N.Y. Colour.

(Vol. 242 cont'd)

14. Southern States. The Railway Systems. Engineering News Series of Maps: No. 12. Supplement to Engineering News, Feb. 2, 1889.
Lith.: Chas Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

15. Southern States. Engineering News Series of Maps: No. 15. Supplement to Engineering News, June 15, 1889.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

16. States East of Chicago. Engineering News Series of Maps: No. 13. Supplement to Engineering News, March 30, 1889.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

17. North Western States. The Railway Systems. Engineering News series of Maps: No. 14. Supplement to Engineering News, May 11, 1889.
Lith.: Chas. Hart & Sons, N.Y. Colour.
Scale: 1 inch = 50 miles.

VOLUME: 252 - (Location: D571 F5)

1. Saxony. Plate V. From Encyclopaedia Britannica, 9th ed. Vol. XXI. Printed by J. Bartholomew. Colour.

2. Holland and Belgium. n.d.

3. Switzerland. n.d. Colour.
Lists statistics.

VOLUME: 253 - (Location: D571 F5)

1. Austria. n.d. Colour.
Lists statistics.

(Vol. 253 cont'd)

2. Vienna. n.d.
Railway and Tramway Lines Marked.

3. Plan of the Battle of Waterloo. n.d.
Engraved by W. & B. Lizars, Edinburgh.

VOLUME: 254 - (Location: D571 F6)

1. Eurpoe in 485, Showing the Territories of the Gothic Nations. n.d.
T. Fisher Unwin, London. Colour.

2. Germany. n.d.

3. Kingdom of Prussia 1786. Kingdom of Prussia 1866. Plate I. From Encyclopaedia Britannica, 9th Ed. Vol. XX. Printed by W. & A.K. Johnson. Colour.

4. German Empire. n.d. Printed by Hunt & Eaton, New York. Colour.
Railway lines marked.
On reverse: The Imperial German Census, 1890. Showing increase since 1880.
Kings and Emperors of Germany. From 800 to 1888.

Location: D570 F7

5. The Illustrated London News Map of the Seat of War.
Supplement to the Illustrated London News, Aug. 6, 1870.
Colour.
Annotation: "...Franco Prussian War."

(Vol. 254 cont'd)

Location: D571 F6

6. Kiessling's Touristen Karte von Potsdam und Umgegend mit besonderer Bezeichnung der Haupt-u.-Nebentouren. n.d. Enworfen von Th. Delius. Druck von Leip. Kraatz in Berlin. Colour.
Scale: 1:22,000.
Annotation: "Map Plan of Potsdam & Neighbourhood.

7. Karte des Deutschen Reiches.... 1872/73. Verlag von J.G. Busch, Leipzig. Colour.

VOLUME: 278 - (Location: D571 F6)

1. Starling, Thomas, The World Shewing the Primitive Settlements of the Descendants of Noah. p. 1. n.d.

2. Starling, Thomas, Mesopotamia Including "The East" Illustrative of the History of Abraham, Isaac & Jacob. p. 2. n.d.

3. Starling, Thomas, Land of Canaan Adapted to the Histories of Abraham, Isaac & Jacob. p. 3. n.d.

4. Starling, Thomas, Journeyings & Encampments of the Israelites from Egypt to Canaan. p. 4. n.d.

5. Starling, Thomas, Canaan or the Land of Promise Illustrating the Books of Joshua & Judges. p. 5. n.d.

6. Starling, Thomas, General Map of the Tribes. p. 6. n.d.

7. Starling, Thomas, Tribes of Asher and Naphtali. p. 7. n.d.

8. Starling, Thomas, Tribe of Zebulon. p. 8. n.d.

9. Starling, Thomas, Tribes of Issachar & Manasseh on this Side Jordan. p. 9. n.d.

10. Starling, Thomas, Tribe of Ephraim. p. 10. n.d.

(Vol. 278 cont'd)

11. Starling, Thomas, Tribes of Benjamin and Dan. p. 11. n.d.

12. Starling, Thomas, Tribes of Judah & Simeon. p. 12. n.d.

13. Starling, Thomas, The Half Tribe of Manasseh Beyond Jordan. p. 13. n.d.

14. Starling, Thomas, Tribes of Gad & Reuben. p. 14. n.d.

15. Starling, Thomas, Land of Moriah or Environs of Jerusalem. p. 15. n.d.

Location: D571 F7

16. Starling, Thomas, Kingdoms of Judah and Israel Illustrative of the Books of Kings & Chronicles. p. 18. n.d.

17. Starling, Thomas, Kingdom of David and Solomon. p. 19. n.d.

18. Starling, Thomas, Canaan Shewing the Captivities of Judah & Israel. p. 20. n.d.

19. Starling, Thomas, Judea According to Josephus. p. 21. n.d.

20. Starling, Thomas, Judea According to the Apocryphal Books. p. 22. n.d.

21. Starling, Thomas, Judea or Palestine Illustrating the History of the New Testament and Exhibiting the Travels of the Lord Jesus Christ. p. 23. n.d.

22. Starling, Thomas, Voyages and Travels of St. Paul. p. 24. n.d.

23. Map of the Passenger Service and Connections of the Peninsular & Oriental Steam Navigation Co. Nissen & Arnold, London, n.d. Colour.

24. Palestine, Showing Ancient Tribal Divisions. Hunt & Eaton, New York. Fisk & Co. Engravers, New York. n.d. Colour.

25. Apostolic Journeys. Fisk & Co. Engravers, N.Y. n.d. Colour.

(Vol. 278 cont'd)

26. Plan of Jerusalem, from the Most Approved Authorities. n.d.
Annotation: "Juvenile Maga. 1846 - W. Newbury London"

27. Map of the Countries Mentioned in the Bible. Copyright, 1902, by Dodd, Mead & Co. Colour.

28. Bartholomew, J., Palestine Ancient and Modern. Fords, Howard & Hulbert, New York. n.d. Colour.

29. The Peninsula of Mt. Sinai. A Map to Illustrate the Wanderings of the Israelites from Eygpt to Canaan. Colton Zahm & Roberts, New York. 1873. Colour.

30. Radial Key Map Showing Points Referred to in the Acts of the Apostles, with the Distances and Directions from Jerusalem. Copyrighted by Geo. May Powell, 1883. Colour.

31. A Map of the Situation of the Garden of Eden: as Also of Mount Ararat Whereon the Ark Rested. Engraved for the Universal Bible. [1758]. G. Rollos, Sculp.

32. The Antient City of Jerusalem and Places Adjacent. n.d.
H. Gavin Sculp., Edinburgh.
Plate Impression.

33. A Map of the Land of Canaan and Parts Adjacent: at the Time of Abraham's Coming to Sojourn Therein; Shewing the Several People & Places Mentioned in the History of the Patriarchs. Engraved for the Universal Bible. [1758].
G. Rollos Scupl.
Plate Impression.

34. Society for Promoting Christian Knowledge, Judah & Israel: Illustrating the Book of Kings.
1821. Engraved by Sid. Hall, Bloomsbury.

35. Society for Promoting Christian Knowledge, Dominions of David & Solomon, with Places Remote.
1821. Engraved by Sid. Hall, Bloomsbury.

36. Society for Promoting Christian Knowledge, Map of the Journeyings & Encampments of the Israelites from Egypt to Canaan, Through the Desert of Arabia Petraea, Shewing also the Principal Places in Egypt Mentioned in the Holy Scriptures. n.d. Sid. Hall, Sculpt.

(Vol. 278 cont'd)

37. Society for Promoting Christian Knowledge, Mesopotamia with Canaan & Other Parts of the East, Adapted to the Histories of Abraham, Isaac & Jacob.
1821. Engraved by Sid. Hall, Bloomsbury.

38. Society for Promoting Christian Knowledge, Canaan, Illustrating the Books of Joshua & Judges. n.d. Sid. Hall Sculpt.

39. Society for Promoting Christian Knowledge, Jerusalem, with the Neighbouring Country.
1821. Engraved by Sid. Hall, Bloomsbury.

VOLUME: 280 - (Location: D571 F8)

1. The British & Foreign Bible Society, Language Map of the Turkish Empire and Adjacent Countries. [1885]. Stanford's Geographical Estabt. colour.

2. Gatschet, Albert S., The Linguistic Families of the Gulf States. n.d. Ed. by Dr. F. Boas. Hart & Von Arx, N.Y.

3. The British and Foreign Bible Society, Linguistic Map of Africa. [1885]. Stanford's Geographical Estabt. Colour.

4. The British & Foreign Bible Society, Language Map of Central Asia. 1885. Stanford's Geogl. Estabt. Colour.

5. Boas, Dr. F., Map Showing the Distribution of Indian Languages on the Coast of British Columbia. From Science, March 25, 1887.
Scale: 1:2,500,000.

VOLUME: 281 - (Location: D571 F8)

1. Venice. n.d. Railway Lines Shown.

(Vol. 281 cont'd)

2. Venezia. Venedig. n.d. Geograph. Anstalt von Wagner & Debes, Leipzig. Colour.
Scale: 1:15,000.

VOLUME: 283 - (Location: D571 F8)

1. Constantinople. n.d.

2. Turkey in Europe. n.d. J. Bien, Photo-Lith. Colour.

3. Constantinopel Mit Seinen Wasserleitungen. Allgem. Bauzeitung 1853.

4. Siege de Scutari par Mohammed II. Du 8 juin au 18 sept..-1478. Atlas de L'Empire Ottoman, par J.J. Hellert. Planche XXXIII. n.d. Gravé par Ch. Schreiber. Imprimé chez Thierry Fréres.

5. Hungary with Turky [sic.] in Europe. n.d.
Plate Impression.

6. Roumania & Servia. Plate 1. From Encyclopaedia Britannica, 9th ed. Vol. XXI. Printed by J. Bartholomew. Colour.

7. Turkey in Europe. Pub. by Arch. Fullarton & Co., Glasgow, [1839]. Engr. on Steel by Gray & Son.

8. Turkey in Europe & Greece. n.d. Colour. Statistics given.

9. Lycaonia, Lycia, Lydia, &c. Plate II. From Encyclopaedia Britannica, 9th ed. Vol. XV. Printed by W. & A.K. Johnston, Edinburgh. Colour.
Scale: 1 inch = 80 miles.

10. Turkey. n.d.

11. Syria South Part. Pub. by Arch. Fullarton & Co., Glasgow, [1839].
Plate Impression.

12. Syria North Part. Pub. by Arch. Fullarton & Co., Glasgow, [1839].
Plate Impression.

(Vol. 283 cont'd)

13. Society for the Diffusion of Useful Knowledge, Constantinople. Stambool. 1840. Hellert.
Engraved by B.R. Davies.

14. Map of the Ottoman Empire, Kingdom of Greece, and the Russian Provinces on the Black Sea. Supplement to The Illustrated London News, April 21, 1877.
Engraved by John Dower, London.

Location: D572 F1

15. Sketch Map from the Dardanelles to the Bosphorus. Showing the Positions of the British Fleet. Supplement to The Illustrated London News, March 9, 1878. Colour.

16. Derniere Révolution de La Mer Caspienne. n.d.
Plate Impression.

17. Premiere Révolution de la Mer Caspienne au Carte qui Indique Son Etendue vers le Tems de la Population Primitive de L'Asie. n.d.
Plate Impression.

18. Seconde Révolution de la Mer Caspienne ou Carte de Ptolemée. n.d.
Plate Impression.

19. Troisieme Révolution de la Mer Caspienne ou Carte D'Abulfeda. n.d.
Plate Impression.

20. Quatrieme Révolution de la Mer Caspienne ou Carte du Czar Pierre le Grand. Rectifiée par Mr. d'Anville. n.d.
Plate Impression.

VOLUME: 289 - (Location: D572 F1)

1. China. Pub. by James Meuros, Kilmarnock. n.d.
Plate Impression.

VOLUME: 293 - (Location: D572 F1)

1. Manchester and its Environs. ca. 1851. Illustrations drawn & Engraved by W. Watkins. Plan Drawn & Engraved by J. Rapkin.
   Scale: Half a mile.

2. Newcastle on Tyne. The London Printing and Publishing Co., ca. 1851. Illustrations drawn & Engraved by H. Winkles. Plan Drawn & Engraved by J. Rapkin.
   Scale: Quarter of a Mile.

3. Bringhton. The London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Bibby. Plan Drawn & Engraved by J. Rapkin.
   Scale: Half a Mile.

4. Bradford, Yorkshire. The London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Winkles. Plan Drawn & Engraved by J. Rapkin.
   Scale: Quarter of a Mile.

5. Exeter. the London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Winkles. Plan Drawn & Engraved by J. Rapkin.
   Scale: Quarter of a Mile.

VOLUME: 295 - (Location: D572 F1)

1. Scotland. Pub. by Arch. Fullarton & Co., Glasgow, [1839].

2. Ireland. Pub. by Arch. Fullarton & Co., Glasgow, [1839].

3. Dublin. John Tallis & Co., London & New York, ca. 1851. Illustrations by H. Winkles & Engraved by J.C. Varrall. Plan Drawn & Engraved by J. Rapkin.
   Scale: 1/2 mile.

4. Belfast. The London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Bibby. Plan Drawn & Engraved by J. Rapkin.
   Scale: 1/4 of a Mile.

(Vol. 295 cont'd)

5. Cork. The London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Bibby. Plan Drawn & Engraved by J. Rapkin.
Scale: 1/2 Mile.

Location: D572 F2

6. Aberdeen. The London Printing and Publishing Co., ca. 1851. Illustrations Drawn & Engraved by H. Winkles. Plan Drawn & Engraved by J. Rapkin.

7. Edinburgh. John Tallis & Co., London & New York, ca. 1851. Illustratons Drawn & Engraved by H. Winkles. Plan Drawn & Engraved by J. Rapkin.
Scale: 1/2 Mile.

8. Scotland. n.d.

9. Ireland. n.d.

10. Scotland with a List of the Royal Burroughs and Other Principal Towns. n.d. H. Gavin Sculpt.
Scale: 1 Degree = 60 Miles.
Plate Impression.

11. Ireland. n.d.
Scale: 1 Degree = 60 Miles.
Plate Impression.

VOLUME: 297 - (Location: D572 F2)

1. Palestine in the Time of Christ. William Collins, Sons & Co., Ltd., Glasgow & London, n.d. Colour.

2. Map Showing the Jouneyings of the Children of Israel. William Collins, Sons & Co., Ltd., Glasgow & London, n.d. Colour.

3. Map Illustrating the Journeys of St. Paul. William Collins, Sons & Co., Ltd., Glasgow & London, n.d. Colour.

(Vol.297 cont'd)

4. Babylonia, Assyria, Media & Susiana. Countries of the Jewish Captivities. William Collins, Sons & Co., Ltd., Glasgow & London. n.d. Colour.

5. Ancient Jerusalem and Its Environs. William Collins, Sons & Co., Ltd., Glasgow & London, n.d. Colour.

6. Canaan as Divided Among the Twelve Tribes. William Collins, Sons & Co., Ltd., Glasgow & London, n.d. Colour.

7. Starling, Thomas, Plan of the City of Jerusalem. Plan of the Temple, with its Courts. Plan of the Temple on an Enlarged Scale. n.d.

8. Map of the Journeyings of the Israelites from Egypt to Canaan. Pub. Arch. Fullarton & Co., Glasgow, n.d. Eng. by R. Scott. Plate Impression.

9. Ancient Jerusalem. Modern Jerusalem. n.d. Eng. on Steel by W. Williams, Philadelphia.

10. Palestine. n.d. W. & A.K. Johnston Ltd., Edinburgh & London. Railway Lines and Steamer Routes Shown.

11. Palestine. Plate IV. From Enclyclopaedia Britannica, 9th ed. Vol. XVIII. Printed by W. & A.K. Johnston, Edinburgh & London. Colour.

12. Jerusalem and Its Ruins. [Washington: 1872]. Colour. Lower Left Corner has been torn off.

13. Hughes, W., Palestine in the time of Our Saviour. Pub. under the superintendence of the Society for the Diffusion of Useful Knowledge, by J. Redfield, [1856]. W.S. Barnard, Sc. Robinson, Burckhardt, Jacotin &c.

14. Johnson, J. Hugh, Turkey in Asia (Biblical Regions) The Holy Land and its Borders. Including Ancient Phoenicia, the Hauran, and Adjacent Districts;Showing Jewish, Roman & Modern Divisions and Topography. A. Fullarton & Co., Edinburgh, London & Dublin, n.d. Colour. Drawn and Engraved at Standord's Geographical Establishment, London.

VOLUME: 299 - (Location: D572 F3)

1. French Line of Battle. Published by Bunney & Gold, 1799. Map Shows Bay of Aboukir.

VOLUME: 301 - (Location: D572 F3)

1. Kiepert, H., Ethnological Map of Southeastern Europe. From Science, Jan., 27, 1888. Colour. Scale: 1: 7,500,000.

VOLUME: 311 - (Location: D572 F3)

1. Relief Expedition to Emin Pasha. Sketch Map of Central Africa Showing the Various Routes. Supplement to The Graphic, Jan. 29, 1887. By Permission of the Scottish Geographical Society. Printed by J. Bartholomew, Edinburgh. Colour.

2. Map of Africa, Showing the Spread of Mohammedanism and the Extent of Slave-Trade. From Science, Dec. 28, 1888. Colour.

3. Tripoli and Tunis. Plate V. From Encyclopaedia Britannica, 9th ed. Vol. XXIII. Colour. Printed by W. & A.K. Johnston.

4. Morocco. Plate X. From Encyclopaedia Britannica, 9th ed. Vol. XVI. Colour. Printed by J. Bartholomew, Edinburgh.

5. Cape Colony. Plate I. From Encyclopaedia Britannica, 9th ed. Vol. V. Colour. Printed by J. Bartholomew, Edinburgh.

6. Africa. Plate II. [From Encyclopaedia Britannica, 9th ed.] Vol. I. Colour. Pub. by A. & C. Black, Edinburgh. Printed by J. Bartholomew, Edinburgh.

7. Africa. n.d. Colour. Statistics Given.

VOLUME: 330 - (Location: D570 F7)

1. The Regents Park Explosion, Map and Sections of District. From The Engineer, Nov. 27, 1874.
Scale: 12 inches = 1 mile.
1 inch = 40 feet.
1 inch = 880 feet.

Location: D 572 F3

2. Uebersichtsplan des preisgekronten Concurs Projectes zu der von Seiner k.k. apostolischen Majestat Franz Joseph I allerhochst bescholofsenen Stadterweiterung der k.k. Residenz und Reichs Hauptstadt Wien.... 1858.
Annotation: "Proposed Scheme for Defence of Vienna 1858"

3. Die Neuen Anlagen von Genf. Bl. 228. Allgem. Bauzeitung 1858.

Location: D570 F7

4. Birds Eye View of a Proposed Entrenched Camp on Cannock Chase from Designs by Major Knollys, Garrison Instructor, Home District, Carried Out by "One Who Has Served." Published with Part 17, for March 1871, of The Gentleman's Journal and Youth's Miscellany. Colour. Printed by A. Goater, Nottingham.

5. The Gentleman's Journal Map of England and its Defences. Pictorial map of England, showing the defences, forts, camps, rocks, shoals, lighthouses, life boat stations, &c., published with Part 16, for Feb. 1871, of The Gentleman's Journal and Youth's Miscellany. Colour. Printed by A. Goater, Nottingham.

VOLUME: 331 - (Location: D572 F3)

1. Geological Map of The Silurian Rocks and Overlying Formations as Developed in Wales and the Adjacent Parts of England (Prepared from the Index Map of the Geological Survey of Great Britain.) Published by John Murray, London, 1853. Colour. Printed by J.W. Lowry.

(Vol. 331 cont'd)

2. Maury, Matthew F., Map Showing the Economic Minerals Along the Route of the Chesapeake & Ohio Railway to Accompany the Geological Report of Thomas S. Ridgway. 1872. Colour.
Scale: 8 ms. 1 in.
The N.Y. Lith. Eng. & Print. Co.

VOLUME: 334 - (Location: D572 F3)

1. Contour and Glacial Map of the British Isles. n.d. Colour.
Struthers & Co., N.Y.
Annotation: "Pop. Sci. Mon. Dec/92"

VOLUME: 335 - (Location: D572 F3)

1. Ayres, W.S., Min. Engr., Map of Nakimu Caves. 1905.
Scale: 1 inch = 120 Feet.

Location: D570 F7

2. Wheeler, Arthur O., Popographer, Dept. of the Interior, Topographical Map Showing the Position of the Nakimu Caves in Cougar Creek Valley, Selkirk Mts. British Columbia. 1905.
Colour.

VOLUME: 347 - (Location: D570 F2)

1. Smith Beacock & Tannett, Victoria Foundry, Foundation for 18 ins Expanding Cap Lathe.
Leeds: n.d. Tracing Paper.
Scale: 1/2 inch = 1 foot.

VOLUME: 362 - (Location: D250 F5)

1. Map Shewing the Occurrences of Iron Ores and Other Minerals in Portions of the Counties of Frontenac, Lanark, Renfrew and Leeds Ontario. To accompany report by Elfric Drew Ingall. n.d. Colour.
Scale: 1 inch = 2 statute miles.

Location: D570 F7

2. Martin, G.B., Chief Commissioner of Lands and Works, Victoria, B.C., Mining Recording Divisions Map of the West Division of Kootenay District and a Portion of Lillooet, Yale & East Kootenay, B.C. 1897. Colour. Lith.: The Colonist, Victoria, B.C.

3. Map of the Sturgeon Lake Gold Field District of Thunder Bay-Ontario. To Accompany Report of E.S. Moore, in the 20th Report of the Bureau of Mines, 1911. Colour.
Scale: 1:31680.

4. Martin, G.B., Chief Commissioner of Lands & Works, Victoria, B.C., Map of Portion of Osoyoos District British Columbia. 1897. Colour. Lith.: Colonist, Victoria.

5. Map of the Silver Mountain Area District of Thunder Bay. To Accompany Report of N.L. Bowen in the 20th Report of the Bureau of Mines, Ontario, 1911. Colour.
Scale: 1:63360
Lith: The Copp Clark Co., Toronto.

Location: D250 F5

6. Route Map of Parts of the Moose River Tributaries Districts of Algoma, Sudbury, & Nipissing. To Accompany Report by M.B. Baker on "The Iron and Lignite of the Matagami Basin," in the 20th Report of the Bureau of Mines, Ontario, 1911.
Scale: 1:253,440.
Lith: E.H. Harcourt Co. Ltd., Toronto.

(Vol. 362 cont'd)

Location: D572 F3

7. Geological Survey of Canada, Province of Ontario Parts of Counties of Renfrew, Lanark, Lennox and Addington, Frontenac and Carleton. (Perth sheet, No. 119). To Accompany Report by R.W. Ells, 1901. To Illustrate Part J. Annual Report, Vol., XIV. No. 789. Colour.
Scale: 1 inch = 4 miles.

8. Map of the Vermilion Lake Pyrite Deposits in the Vicinity of the Vermilion Pyrite Mine District of Rainy River. To Accompany report of E.S. Moore in the 20th Report of the Bureau of Mines, Ontario, 1911. Colour.
Scale: 1:31660.

9. Larder Lake Stakings up to September, 1906. this Map Shows Early Gold Discoveries. [1906]. Colour.

10. Map Showing Location of Strathcona Property in Bucke & Adjacent Lots. n.d. Colour.

Location: D572 F4

11. Map of Parts of the Counties of Hastings and Renfrew, to Accompany Report of W.G. Miller, on Corundum Deposits. 1897. Colour.
Scale: 1 inch = 2 1/2 Miles.
Lith: The Copp Clark Co. Ltd., Toronto.

12. Geological Survey of Canada, Quebec and Ontario Parts of Counties of Ottawa and Pontiac, Que., Carleton and Renfrew, Ont. (Pembroke Sheet No. 122). To Accompany Report by R.W. Ells. No. 660. Colour.
Scale: 1 inch = 4 miles.

Location: D250 F5

13. Montreal Flood Commission, Progress Diagram of the Breaking Up of the Ice in the River St. Lawrence, Spring of 1886-87. Colour.

(Vol. 362 cont'd)

Location: D570 F7

14. Geological and Natural History Survey of Canada, Plan of the Asbestus Areas in the Townships of Thetford, Coleraine, Wolfestown & Ireland. 1890. Compiled and Drawn by R.W. Ells and N.J. Giroux to Illustrate Part J. Report 1886 & Part K. Report 1887-1888.
Scale: 40 Chains = 1 inch.
Lith: Mortimer & Co., Ottawa.

15. Dept. of Crown Lands, Map of the North Shore of Lake Huron. 1900. Colour.
Scale: 1 inch = 6 Miles.
The Copp, Clark Co., Ltd., Toronto.
"Indian Lands Colored Red."
2 parts.

Location: D572 F4

16. Outline Map of the Eastern Ontario Gold Belt. to Accompany Report of W.G. Miller, 11th Report of the Bureau of Mines, 1902. Colour.
Scale: 1 inch = 4 miles.

Location: D570 F7

17. Dept. of Lands, Victoria, Map of East and West Kootenay. 1911.
Lith.: Colonist, Victoria.

18. Dept. of the Interior, Map of the Dominion of Canada Shewing Astronomical Stations Established up to 31st. March 1908. Appendix 4. Chief Astronomer's Report, 1908. Colour.
Scale: 1 inch = 100 Miles.

19. Dept. of the Interior, Progress Map of the Geodetic Survey of Canada. Accompanying Report of C.A. Bigger. Appendix 7. Chief Astronomer's Report, 1908. Colour.
Scale: 1 inch = 35 miles.

(Vol. 362 cont'd)

Location: D250 F5

20. The Canadian West. Compiled from the Government Maps and Revised to March 1910. Presented with the Compliments of The Canadian Bank of Commerce. Colour.
Lith: Stone Ltd., Toronto.
Scale: 1 inch = 35 miles.
Bank of Commerce Branches are Indicated.

Location: D570 F7

21. Geological Survey of Canada, Ontario and Quebec Counties of Glengarry, Stormont, Dundas, Parts of Counties of Prescott, Russell, Carleton, Grenville, Lanark and Leeds Ontaro. Parts of Counties of Huntinton, Soulanges, Vaudreuil and Ottawa, Quebec. (Ottawa and Cornwall Sheet No. 120). 1906. To Illustrate Report by R.W. Ells. Colour.
Scale: 1 inch = 4 statute miles.

Location: D572 F4

22. Vancouver Island. Plate III. From Encyclopaedia Britannica, 9th ed. Vol. XXIV. Colour. Printed by J. Bartholomew.

VOLUME: 416 - (Location: D572 F4)

1. Plan of Lyons. n.d.
Railways & stations are marked.

2. Plan of Marseilles. n.d.
Railways & stations are marked.

3. Plan of Marseilles. n.d.
Appears to be an Earlier Map than Map 2.

(Vol. 416 cont'd)

4. Logerot, éditeur, Nouveau Plan et Environs de Marseille, ou Guide de l'Etranger dans la Ville. n.d. Colour. Imp. Goyer, Paris.

5. Marseille. Ancient Massilia. Pub. by the Society for the Diffusion of Useful Knowledge, 1840.
Engraved by B.R. Davies.

6. France in Departments. n.d. Colour.
Statistics given.

7. Toulon. Ancient Telo Martius. Pub. by the Society for the Diffusion of Useful Knowledge, 1840. Drawn by W.B. Clarke.
Engraved by B.R. Davies.

8. France. n.d.

9. Lyon. n.d. Geograph. Anstalt von Wagner & Debes, Leipzig.

10. Vincennes, Charenton & Nogent S.M. n.d. Colour. Geograph. Anstalt von Wagner & Debes, Leipzig.

11. Forèt de Compiége. n.d. Colour.
Scale: 1:100,000.
Geograph. Anstalt von Wagner & Debes, Leipzig.

12. Nancy. n.d.
Geograph. Anstalt von Wagner & Debes, Leipzig.

13. Avignon. n.d.
Geograph. Anstalt von Wagner & Debes, Leipzig.

14. Rouen. n.d.
Scale: 1:21,430.

Location: D572 F5

15. Le Havre. n.d.
Geograph. Anstalt von Wagner & Debes, Leipzig.

16. La Ville et le Parc de Versailles. n.d. Colour.
Scale: 1:25,000.
Geograph. Anstalt von Wagner & Debes, Leipzig.

(Vol. 416 cont'd)

17. Boulogne. n.d.
Geograph. Anstalt von Wagner & Debes, Leipzig.

18. Dieppe. n.d.
Geograph. Anst. von Wagner & Debes, Leipzig.

19. Nimes. n.d.
Geograph. Anstalt von Wagner & Debes, Leipzig.

20. Marseille. n.d.
Geograph. Anst. von Wagner & Debes, Leipzig.

21. Survey Map of Northern France. n.d. Colour.
Scale: 1:2,500,000.
Geograph. Anst. v. Wagner & Debes, Leipzig.

VOLUME: 417 - (Location: D572 F5)

1. St. Germain en Laye. n.d.
Geograph. Anst. von Wagner & Debes, Leipzig.

2. St. Cloud & Sèvres. n.d. Colour.
Scale: 1:25,000.
Geograph. Anstalt von Wagner & Debes, Leipzig.

3. Les Environs de Paris jusqu'à Beauvais, Compiègne, Soissons, Nogent-s.-s. Fontainbleau, Chartres et Dreux. n.d. Colour.
Scale: 1:800,000.
Geograph. Anstalt von Wagner & Debes, Leipzig.

4. Les Environs de St. Germain. n.d. Colour.
Geograph. Anstalt von Wagner & Debes, Leipzig.

5. Forèt de Fontaineblueau. n.d. Colour.
Scale: 1:100,000.
Geograph. Anstalt von Wagner & Debes, Leipzig.

6. Paris. [1889].

VOLUME: 418 - (Location: D572 F5)

1. Map of Hampton Roads, Va. Showing Coal and Merchandise Piers of The Chesapeake and Ohio Ry. From Industrial Sites Along the C.&O. Railway. Colour.

Location: D570 F7

2. U.S. Geological Survey, Sketch Map Showing the Distribution of the Strata and Eruptive Rocks in the Western Part of the Plateau Province. From Annual Report, 1881. Colour.
Scale: 1 inch = 16 Miles.
J.H. Renshawe, Del.
Lith.: T. Sinclair & Son, Phila.
Geology by C.E. Dutton, Geologist in Charge.

Location: D572 F5

3. S. America. Plate XIII. n.d. Plate Impression.

4. North America. Plate XXII. From Encyclopaedia Britannica, 7th Ed. Engraved by Sidney Hall.

5. South America. Plate XXIII. From Encyclopaedia Britannica, 7th ed. Engraved by Sidney Hall.

VOLUME: 441 - (Location: D572 F5)

1. Sweden, Norway &c. n.d.

2. Sweden Denmark Norway and Finland. Iceland. [1795].

VOLUME: 442 - (Location: D572 F5)

1. Spain and Portugal. From Advertisment for Encyclopaedia Britannica, 11th ed. Colour.
Scale: 1:3,500,000.
Emery Walker sc.

VOLUME: 458 - (Location: D572 F6)

1. Map of the Roman Empire to Illustrate Ancient History. 1845. Engraved for Olney's School Atlas, by Sherman & Smith, N.Y. Colour.

2. Roma Antiqua. p. 29. [1703]. Plate Impression.

VOLUME: 460 - (Location; D572 F6)

1. Pompeii. n.d. Colour. W.&A.K. Johnston, Edinburgh & London.

VOLUME: 467 - (Location: D572 F6)

1. General Map of the Countries Mentioned in the Bible. [1867]. Colour. Drawn by J. Wills. Eng. by Geo. E. Sherman.

2. Jerusalem in the Time of Christ. [1867]. Colour. Drawn by J. Wells, N.Y. Eng. by Geo E. Sherman.
Also Shows: Plan of the Temple in the Time of Christ.

3. Map of the Holy Land in the Time of David. n.d. Colour. Eng. by Rae Smith, N.Y.

4. Map of the Holy Land in the Time of Christ. [1867]. Colour. Drawn by J. Wells, N.Y. Eng. by Geo. E. Sherman.

VOLUME: 471 - (Location: D572 F6)

1. China. n.d. Colour. E.F. Fisk, Engr. N.Y.

2. China. [1898]. Colour.

VOLUME: 472 - (Location: D572 F6)

1. West Indies. Pub. by Arch. Fullarton & Co., Glasgow, [1839]. Eng. on steel by Gray & Son.

2. East India Islands. Pub. by Arch. Fullarton & Co., Glasgow, [1839]. R. Scott Sc.

3. Kolonien (Schutzgebiete) des Deutschen Reichs II. 1887. Colour.
   Scale: 1:6,000,000.
   Brockhaus' Conversations-Lexibon, 13. Aufl. Suppl.
   Zu Artikel: Deutschland und Deutsches Reich.
   Annotation: "E. Indian Islands"

4. Corsica. n.d. Colour.
   Scale: 1:1,350,000.
   Geograph. Anstalt von Wagner & Debes, Leipzig.

5. Sardecna. n.d. Colour.
   Scale: 1:1,350,000.
   Geograph. Anstalt von Wagner & Debes, Leipzig.

6. Sicilai. n.d. Colour.
   Scale: 1:800,000.
   Geograph. Anstalt von Wagner & Debes, Leipzig.
   Also Shown: Isole Maltese.
   Tunisi & Cartago.

7. East India Islands. 1903. Colour.
   Copyright by Dodd, Mead & Co. The Matthews-Northrup Works, Buffalo, N.Y.

8. West Indies. 1899. Colour. Copyright by the Matthews-Northrup Co., Buffalo, N.Y.
   Scale: 1 inch = 175 Miles.

(Vol. 472 cont'd)

9. Cuba, Jamaica and the Bahama Islands. 1898. Colour. Copyright by Dodd, Mead & Co. The Matthews-Northrup Co., Buffalo, N.Y.

VOLUME: 473 - (Location: D572 F7)

1. Africa. Engraved for Mr. Salmon's Geography, pub. by James Meuros, Kilmarnock. n.d. H. Gavin, Sculp. Plate Impression.

2. Africa. 1899. Colour. Copyright by the Matthews-Northrup Co., Buffalo, N.Y.

3. Map of Africa. n.d. Colour. Hunt & Eaton, N.Y. Engr., E.F. Fisk, N.Y.

4. Africa Political Divisions 1896. Supplement to The Graphic. Colour.
Scale: 1 inch = 475 English Miles.
Drawn & Engraved at Stanford's Geog. Establisment.

5. Kolonien (Schutzgebiete) des Deutschen Reichs I. 1887. Colour.
Scale: 1:6,000,000.
1:9,000,000.
Brockhaus' Conversations-Lexikon. 13. Aufl. Suppl. Zu Artikel: Deutschland und Deutsches Reich.
Shows maps of: Guinea, Sudwestafrika and Ostafrika.

6. Boas, F., Central Africa. From Science, May 27, 1887. Colour. Hart & Von Arx, N.Y.

7. Africa, Southern Part. No. 113. Specimen map for The Century Atlas, 1897. Colour. Copyright The Century Co., N.Y.

8. Africa. 1899. Colour.
Scale: 1 inch = 350 English Statute Miles. Copyright J. Martin Miller, Chicago. The Matthews-Northrup Co., Buffalo, N.Y.

9. Egyptian Sudan. Illustrating Kitchener's Campaign and Marchand's Route. 1899. Colour.
Scale: 1 inch = 225 statute Miles.
Copyright Dodd, Mead & Co., New York. The M.-N. Co., Buffalo.

(Vol. 473 cont'd)

10. Egypt Showing the Egyptian Soudan Arabia, Etc. n.d. Colour. Hunt & Eaton, N.Y. Fisk & Co. Engr's N.Y.

11. Map of the Independent State of the Congo. Compiled by A.J. Wauters, editor-in-Chief of Du Mouvement Geographique for the National Institute of Geography, Brussels. Colour. Fish & Co. Engr's N.Y.

12. Central Africa. n.d. Colour. E.F. Fisk, Map Engr, N.Y.

13. Ohman's Map of the Boer Republics South Africa. Pub. by the North American Review Pub. Co., New York, 1899. Colour. Copyright by Colton, Ohman & Co.

14. South Africa. 1899. Colour.
Scale: 1 inch = 48 statute miles.
Rand, McNally & Co., Map Pub. and Engravers, Chicago.
On Reverse: Map of the World.

15. Africa, Central Part. No. 56. n.d. Colour.
Scale: 1 inch = 188 English Statute Miles. M.N. Works.

VOLUME: 474 - (Location: D572 F7)

1. Sketch Map of Abyssinia. n.d. Colour. Lith.: M.&N. Hanhart.
Bears Rubber Stamp: "G.T.R.L.S.L. Montreal Pt. St. Charles."
Upper Left Corner is Missing.

BARNETT, John Davis

MG 30 B 86

BROADSIDES

VOLUME: 1

1. Continental Bridge Company, ... Henszey's Patent Wrought Iron Arch Lattice Bridges, ... 110 South Fourth St., Philadelphia: Continental Bridge Company, 1872. 22 cm. x 28 cm. Describes advantages of their bridges. Plus accompanying letter and photograph of bridge over the canal basin at Schuykill Haven, Pa. (37 cm. x 24 cm.)

2. The American Bridge Co., Chicago, Details of Double Track Iron Bridge for C.R.I. & P.R.R. Chicago: The American Bridge Co., n.d. 28.8 cm. x 38 cm., illus. Scale: 1/2 inch to 1 foot.

3. The American Bridge Co., Chicago, Iron Bridge Across the Mississippi River at Clinton, Iowa. Chicago: The American Bridge Co., n.d. 25.9 cm. x 37.8 cm., illus.

4. Baltimore Bridge Co., Patent Wrought Iron Triangular Truss with Pin Bearings & Central Connections Throughout. Baltimore Bridge Co., n.d. 59.4 cm. x 93.2 cm., illus. Drawings of portal, elevation, half plans of top and bottom chords, chord joint castings, etc.

5. Baltimore Bridge Co., Wrought Iron Viaduct Over Lyon Brook New York & Oswego Midland R. Rd. Pat. 1869, 1870. Baltimore: Baltimore Bridge Co., n.d. Lith. by D. Bitter, Baltimore. 48.8 cm. x 65.6 cm., illus.

6. Cumberland River Bridge L. & N. R.R. Nashville Tenn. n.p.: n.d. German & Bro. Lith., Louisville, Ky. 41.9 cm. x 54.4 cm., illus. Consists of detailed drawings of bridge.

(Vol. 1 cont'd)

7. Engine Works Co., Ltd., Worcester, [Bridges, Worcester Iron Works]. Worcester: Engine Works Co., 1870. J. Creese & Co., Lith., Birmingham. 33.1 cm. x 51.6 cm., illus., colour. Coloured scale drawings of two bridges.

8. Kellogg Bridge Co., Buffalo, N.Y., Double Track Deck Bridge 150' Span. Buffalo: Kellogg Bridge Co., n.d. Am. Phtoto-Lithographic Co., N.Y., Osborn's Process. 39.4 cm. x 61.3 cm., illus. Incomplete: Lower left quarter is missing. Related correspondence: Barnett Box Vol. 1, File No. 7.

9. Kellogg Bridge Co., Buffalo, N.Y., Wrought Iron Railroad Viaduct. Buffalo: Kellogg Bridge Co., n.d. 36.8 cm. x 64.7 cm., illus.

10. The Keystone Bridge Co. of Pittsburgh, Linville and Piper Patent Wrought Iron Bridges. Especially Adapted to Rail Road Traffic for Spans of 100 to 400 Feet. Pat. 1862, 1865. Pittsburgh: The Keystone Bridge Co., n.d. Lith. Krebs & Bro., Pittsburgh. 66.5 cm. x 100.7 cm., illus.

11. The Keystone Bridge Co., Pittsburgh, Wrought Iron Roadway Bridge, Linville & Piper Patent. Pat. 1862, 1865. Pittsburgh: The Keystone Bridge Co., n.d. Lith. Ben Linfoot, Philadelphia. 48.3 cm. x 61.2 cm., illus.

12. Louisville Bridge & Iron Co., General Plan of Blue River Bridge. J.M. & I. R.R. Louisville: Louisville Bridge & Iron Co., 1871. A.M. Photo-Lithographic Co., N.Y. Osborne's Process. 28.2 cm. x 40 cm., illus.

VOLUME: 2

1. The American Bridge Co., Chicago, 300 Ft. Iron Draw Bridge Across the Mississippi River at Hastings Minnesota. Chicago: The American Bridge Co., n.d. 43 cm. x 73.2 cm., illus. Scale: 3/32 = 1 foot.

VOLUME: 6

1. Wendell Bollman, Patapsco Bridge & Iron Works, The Bollman Patent Iron Suspension Truss Bridge Built by ... at Canton. No. 8 South Gay St., Baltimore: Wendell Bollman, Patapsco Bridge & Iron Works, n.d. 33.9 cm. x 48.8 cm., illus., annotated. elevation; details of post; details of buttress; plan of floor; top view; sections of chord, post and tower.

VOLUME: 8

1. Peterson, P. Alan, Government Engineer, Comparative Plans, of Bridges on Grades, Showing that the Grade Recommended by Mr. Peterson for the Bout de L'Ile Bridge is Nearly Level in Comparison with Bridges Now in Use. n.p.: n.d. 51.3 cm. x 67.7 cm., illus.
   Horizontal scale: 400 feet = 1 inch.
   Vertical scale: 50 feet = 1 inch.
   Drawings of: Victoria Bridge, Montreal.
   St. Louis Bridge, U.S., as built and as proposed in 1867.
   Bout de L'Ile Bridge, 2 proposals.

VOLUME: 10

1. Ibbotson Brothers & Co., Globe Iron & Steel Works, illustrations of Various Sections of Wrought Iron Girders. (Sheet No. 36a). Sheffield: Ibbotson Brothers & Co., n.d. 31 cm. x 50 cm., Illus. Sixteen illustrations.

VOLUME: 11

1. The Michigan Bridge and Construction Co., Detroit, Plan & Elevation of Combination and Wooden R.R. Bridge. Detroit: The Michigan Bridge and Construction Co., n.d. The Calvert Lith. Co., Detroit. 35 cm. x 62.4 cm., illus. Scale: 1/8 inch per foot.

(Vol. 11 cont'd)

2. Richmond, Van R., State Engineer & Surveyor, General Plan Iron Road Bridges for Spans Over 100 ft. Whipple's Trapezoidal Truss Roadway 19 ft. From Centre to Centre of Truss. Enlargement of the Erie Canal. n.p.: [1859]. Lith. C. Van Benthuysen, Albany, N.Y. 33.1 cm. x 61 cm., illus.
Accomp. State Engineers Report, 1859.
Scale: 5 ft. to 1 inch.

3. Richmond, Van R., State Engineer & Surveyor, General Plan of Whipple's Patent Arch Truss Bridge 100 ft. Span 19 ft. Roadway from Center to Center of Truss with & Without Side Walks. Enlargement of Erie Canal. n.p.: [1859]. Lith. C. Van Benthuysen, Albany, N.Y. 43 cm. x 60 cm., illus.
Accomp. State Engineers Report, 1859.
Scale: 1/5 inch to 1 foot.

4. Richmond, Van R., State Engineer & Surveyor, General Plan of Whipple's Patent Arch Truss Bridge with Sidewalks 72 ft. Span. 19 ft. from Centre to Centre of Truss. Enlargement of the Erie Canal. n.p.: [1859]. Lith Co. Van Benthuysen, Albany, N.Y. 42.3 cm. x 48.8 cm., illus.
Accomp. State Engineers Report, 1859.
Scale: 1/5 inch to 1 Foot.

5. Richmond, Van R., State Engineer & Surveyor, Sweet, S.H., C.E., General Plan of Road & Farm Bridge Superstructures with Iron Chords & Shoes 72 Feet Span. Enlargement Erie Canal. Details of Iron Combination. n.p.: 1859. Lith. C. Van Benthuysen, Albany, N.Y. 55.9 cm. x 66 cm., illus.

VOLUME: 12

1. Chelsea Embankment River Wall. Contract Drawing No. 3 [London]: n.d. Lith. Standidge & Co., Jewry, E.C.
63.7 cm. x 96 cm., illus.

VOLUME: 13

1. Lascelles, W.H., Patent Concrete Slab Cottages. London: 1875. 38 x 50 cm.

(Vol. 13 cont'd)

2. Sandusky Portland Cement Co., Medusa Brand Sandusky Portland Cement. Sandusky, Ohio: Sandusky Portland Cement Co., n.d. 8.2 cm. x 14.1 cm., illus. Trade Card for Cement Company. Works at Bay Bride Ohio and Syracuse Ind.

VOLUME: 14

1. Brazil Brick and Pipe Co., Are You Going to Build? Brazil, Ind.: Brazil Brick and Pipe Co., Jan. 1, 1893. 22 cm. x 31 cm., illus. Advertisement for "Hollow Brick." lists locations of buildings built with hollow brick in 1892.

2. The Crucible Manufacturing Company, The Price-List of Graphite-Crucible & Apparatus of Fire-Clay. No. 25 Shimmeicho Shibakv, Tokio, Japan: The Crucible Manufacturing Company, n.d. 26 cm. x 34 cm. Tranliterated Japanese name is Itsubo Seiko Sha.

3. G. Fièvé & Cie., Carreaux en ciment Comprimé. Gand, [Belgium]: G. Fièvé & Cie, [1893]. 10 cm. x 15 cm., illus., colour. Three illustrated advertising cards showing tiles. back bears rubber stamp: "F. H. Vanderperre, Engineer, Belgium Section, Palace of Manufacturers World's Exposition, Chicago."

4. Hall & Sons, Manufacturers of Fire Brick and Dealers in Pressed and Common Building Brick, Architectural Terra Cotta, Fire Clay, Kaalin, Etc. 69 Tonawands St., Black Rock, Buffalo, New York: Hall & Sons, n.d. 29 cm. x 28 cm., illus., Annotated. Diagrams of nine inch brick and sixteen inch blast furnace blocks. Reverse bears circular rubber stamp: "Asst. Mech. Supt's Office Stratford, April 9, 1891."

5. The Nelsonville Sewer Pipe Co., "Progress". Nelsonville, Ohio: The Nelsonville Sewer Pipe Co., n.d. 15 cm. x 23 cm. Advertisement for "Progress Brick" manufactured by The Nelsonville Sewer Pipe Co.

VOLUME: 15

1. Grueby Faience Company, Makers of Enameled Terra Cotta, Tiles. K and First St.'s, Boston, Mass.: Grueby Pottery, n.d. 22 cm. x 28 cm., illus. Three illustrations of areas using tiles.

2. The Rathburn Company, [advertising insert taken from] Canadian Architect and Builder. Vol. X. No. 1. [Jan. 1897]. Deseronto, Ontario: The Rathburn Company. n.d. 35 cm. x 44 cm., illus. Shows users of terra cotta in mantels, dormers, and fireproofing. Also lists locations of agencies.

VOLUME: 17

1. J. Freeth's Painted Glass Establishment, Advertising Flyer Promoting Glass Sales. 4, Colmore-Row, Birmingham, [England]: J. Freeth's Painted Glass Establishment, n.c. 14 cm., x 23 cm., illus., Colour.

2. McCully & Miles, Chicago, San Francisco, and Portland, Interior Decorations. Stained Glass, Glass & Marble Mosaics. 14 Monroe St., Chicago, Ill.: McCully & Miles, n.d. 6.8 cm. x 12.6 cm., illus. Trade card for interior decorator.

3. Suess' Ornamental Glass Co., Stained Glass, Beveled Plate, Sand blast. 11-23 S. Jefferson St., Chicago: Suess' Ornamental Glass Co., n.d. 7.5 cm. x 13.5 cm., illus. Trade card for Ornamental Glass Manufacturer.

4. The Wells Glass Co., Chicago Ill. and Harvey Ill., Art Stained Ornamental Glass. 452 Wabash Ave., Chicago, Ill. : The Wells Glass Co., n.d. 9.5 cm. x 14.0 cm., illus. Trade card for Ornamental Glass Manufacturer. Factory in Harvey Ill., show-room in Chicago.

VOLUME: 18

1. Columbus Ornamental Iron Manufacturing Co., Ornamental Ironwork for Buildings.... 913 N. Halsted Street, Chicago: Columbus Ornamental Iron Manufacturing Co., n.d. 12.0 cm. x 7.0 cm., illus. Trade card advertising Ornamental Iron Work Manufacturer.

2. Herm. Krause, Manufacturer of Embossed or Hammered Art Work. 68 N.W. Thurm Str., Berlin: Herm. Krause, n.d. Printed by W. Neumann & Comp., Berlin. 16 cm. x 10 cm., illus. Colour. Trade card advertising Ornamental Iron Work Manufacturer. Text in German and English.

3. Ed. Puls, Kunstschmiede-Arbeiten aus der Werkstall von Ed. Puls in Berlin. Berlin S.W.: Ed. Puls Eisencostructions Werkstatt, n.d. Printed by Gebruder Kroner, Stuttgart. 27 cm. x 44 cm., illus. Illustrations of ornamental ironwork.

4. Ant. Schwarz, Owner of an i.r. privilege. Vienna: Ant. Schwarz, n.d. 15 cm. x 26 cm., illus., Colour. A tri-lingual, German, French and English, advertisement for ornamental iron work.

5. a. The Novelty Iron Works, An Illustration of a Cast-Iron Building Front. New York: The Novelty Iron Works, n.d. Printed by Am. Photo-Lithographic Co., N.Y. 28 cm. x 35 cm., illus. Agents listed. Annotated price $5,000.00 Transferred from Vol. 29.

   b. The Novelty Iron Works, An Illustration of a Cast-Iron Building Front. New York: The Novelty Iron Works, n.d. 28 cm. x 35 cm., illus. Agents listed. Annotated price $7,500.00. Transferred from vol. 29.

6. Heuvelman Haven & Co., An Illustration of a Cast-Iron Building Front. 77 & 83 Liberty St., New York: Heuvelman Haven & Co., n.d. 30 cm x 40 cm., illus. Four different sheets with annotated prices. Company formerly called Novelty Iron Works. Transferred From vol. 29.

7. Heuvelman, Haven & Co., Architectural and Ornamental Iron Work of Every Description. 77 & 83 Liberty St., New York: Heuvelman, Haven & Co., n.d. Printed by Am. Photo-Lithographic Co., N.Y. 32 cm. x 48 cm., illus. Twenty-Four illustrations of iron railings, with prices.

(Vol. 18 cont'd)

8. Heuvelman Haven & Co., Architectural and Ornamental Iron Work fo Every Description. 77 & 83 Liberty St., New York: Heuvelman Haven & Co., n.d. Printed by Am. Photo-Lithographic Co., N.Y., 40 cm. x 29 cm., illus. Drawing of iron staircase. Company formerly called Novelty Iron Works. Transferred from vol. 35.

9. The United Metile Co., Metile. 151-157 High St., Waltham, Mass.: The United Metile Co., n.d. 32 cm. x 24 cm., illus., Colour. Advertisement for coloured metal tile. Transferred from vol. 36.

VOLUME: 19

1. Wright & Jones, Rotary Lock Manufactory, Wright's Patent Window & Car Sash Rotary Lock. 108 Canon St., Bridgeport, Conn.: Wright & Jones, [1894]. 22 cm. x 28 cm., Illus., annotated.

2. Van Wagoner & Williams Hardware Co., New York and Cleveland, Printed on two sides. Side 1 - "American Trackless" Sliding Door Hanger. Side 2 - Van Wagoner & Williams Hardware Company's Specialties. Cleveland, Ohio: Van Wagoner & Williams Hardware Co., n.d. 71 cm. x 93 cm., illus. Transferred from Vol. 26. Side 1 - Detailed drawings of mechanism and mounting and parts. Side 2 - Primarily drawings of spring hinges, blacksmith's equipment and stove equipment including sad iron heaters.

VOLUME: 22

1. Bohler Bros. & Co., Styrian Steel Works, Styrian Tool Steel. Sheffield, [Eng.]: Bohler Bros. & Co., n.d. 23 cm. x 34 cm., Colour. Text lists various hardnesses of steel produced by the company and their uses.

(Vol. 22 cont'd)

2. Lukens Iron and Steel Co., Steel & Iron Plates. Coatesville, Pa.: Lukens Iron and Steel Co., n.d. Printed by American Bank Note Co., Philadelphia. 12 cm. x 8 cm., illus. Trade card advertising boiler plates. Agent printed on card: Coolbaugh & Pomeroy, 29, Broadway, New York.

3. Hugh Russel, Directions for Treating the R. Mushet's Special Steel. Temple Building 185 St. James St., Montreal: Hugh Russel, n.d. 26.5 cm. x 20.5 cm.

4. Waverley Works, "Z" Steel. Sheffield, [Eng.]: George Addy, [1902]. 28 cm. x 44 cm., Colour, Annotated.

VOLUME: 23

1. W.H. Palfreyman & Co., Palfreyman's Rust Preventive. 87 Piccadilly, Manchester, [Eng.]: W.H. Palfreyman & Co., 1894. 23 cm. x 28 cm., Illus., Colour. Prices given.

2. The Sargent Company, Open-Hearth Crucible Steel Castings. Chicago, Ill.: The Sargent Co., [1896]. 22 cm. x 27 cm., Illus., Annotated. Office locations listed. Physical properties of open-hearth castings listed.

3. The Spang Steel and Iron Co., [Advertising circular composed of the] Report of Tests on Steel Boiler Plates Manufactured by The Spang Steel and Iron Co. Pittsburgh, Pa. for Rhode Island Locomotive Works, Providence, R.I.... 66, 68 & 70 Sandusky St., Allegheny [Pa]: The Spand Steel & Iron Co., 1892. 19 cm. x 30 cm. Accompanying letter

4. Testing Works of the Ironworks Owners Assoc., Liljeholmen, [Sweden], Table of Results Tests Upon Tensile Strength's No. 72C. Liljeholmen, [Sweden]: Antarsrum Company Limited, Dec. 31, 1892. 24 cm. x 35 cm., Colour. Testing of Lancashire Wrought Iron and Siemens Martin Metal.

VOLUME: 24

1. Dorman, Long & Co., Limited, List of British Standard Beams. Middlesbrough, Eng.: Dorman, Long & Co., Ltd., n.d. Printed by Hood & Co. Ltd., Middlesbro. 42 cm. x 53 cm., Illus., Colour. Lists office locations, and stockyards of the company.

2. Jones & Laughlins, Ltd., Sizes and Shapes Rolled by American Iron and Steel Works. Pittsburgh and Chicago: Jones & Laughlins, Ltd. 1884-86, illus.,
   Sheet No. 5, Oct. 1884. 64 x 48 cm.
   Sheet No. 6, April 1885. 64 x 48 cm.
   Sheet No. 7, July 1885. 70 x 50 cm.
   Sheet No. 8, Jan. 1886. 70 x 50 cm.
   Detailed drawings primarily of: angles, channels, rails, tees and I beams.

3. Pease, Hutchinson, and Company, Skerne Ironworks, Mallet's Patent Buckled Plates. Darlington, [Eng.]: Pease, Hutchinson, and Co., n.d. Printed by G. Falkner, Manchester. 43 cm. x 56 cm., illus.
   Illustrations showing form, properties, modes of jointing and uniting into structures, and various applications.

4. Pease, Hutchinson, & Co., Skerne Iron Works, Mallet's Patent Buckled Plates. Darlington, [England]: Pease, Hutchinson, & Co., 1869. 44 cm. x 51 cm., illus., Colour.
   Circular with detailed text describing various aspects of the plates as well as a "Table of Strength, Weight, and Cost."

5. Phoenix [Company], Action-Gesellschaft fur Bergbau and Huttenbetridb. Laar, Rhenish Prussia, Germany: Phoenix, n.d. Printed by Dr. M. Huttler, Konrad Fischer, Munich. 32 cm. x 52 cm., illus. Colour. Rubber stamp on front: "Sole Selling Agents, Dick, Kerr & Co., Ltd. 101 Leadenhall St. Longon, England...." Specialities: grooved girder rails for tramways and recarburised steel.

6. Dean, Charles W., Palentee of the Following Inventions, All Made From Sheet Metal, Hoop or Band Iron, or Steel, Without Waste of Material: .... Evansville, Wis.: Chas. W. Dean, n.d. 26.4 cm. x 20.2 cm., illus. Illustrates and describes nails, staples and other fastening devices for which he holds the patents or manufactures. Also holds an interest in "Smythe's Patent Wire Fence Nail," Patented Dec. 14, 1875.

VOLUME: 25

1. C.H. Haeseler & Co., Portable Pneumatic Sand Sifting Machine. 1001 Hamilton St., Philadelphia, Pa.: C.H. Haeseler & Co., n.d. 20 cm. x 27 cm., illus.

VOLUME: 26

1. C.B. Brodie & Co., The Campbell Portable Automatic Forge. 102 John St., Toronto: C.B. Brodie & Co., n.d. 21 cm. x 27 cm., illus. Advertisement to sell U.S. Patent.

2. Darling Brothers, The "Q & C" Shop Saw With Automatic Feed. Montreal, Que.: Darling Bros., n.d. 15 cm. x 30 cm., illus. Text gives advantages of their saw over other saws including a chart showing "Acutal Comparative Cutting Speed."

3. Place, Geo., General Agent, The Hurricane Forge. Patterson's Patent Forge. 121 Chambers and 103 Reade Sts., New York: George Place, [1874]. Printed by Sears & Cole, N.Y. 37 cm. x 50 cm., illus. See Also Cat. 17. Lists other companies & products for which he is agent.

4. Sherburne & Co., Bryant Portable Rail Saw. 53 Oliver St., Boston, Mass.: Sherburne & Co., [1897]. 22 cm. x 28 cm., illus. Illustrates No. 5 straight cut but describes No. 5a. gives prices of No. 5's and No. 6's.

5. Wm. Hoskins & Co., Hoskins' Combination Furnace. 81 St. Clark St., Chicago: Wm. Hoskins & Co., n.d. 14 cm. x 8.6 cm., illus. Furnaces for analytical chemists, assayers, dentists and propectors. Size and price included.

6. Wm. Hoskins, Hoskins' Cupels. 81 So. Clark St., Chicago: Wm. Hoskins, n.d. 14 cm. x 8.6 cm. Price list.

VOLUME: 27

1. Bradley & Company, New York, Boston, Syracuse, Bradley Upright Strap Hammer. 500 Lb. Head. Syracuse, N.Y.: Bradley & Company, n.d. 30 cm. x 36 cm., illus., Colour. Illustration and general specifications.

2. Briggs & Dougherty, Patentees, Eye-Bolt Forming Machine. Whistler, Ala.: Briggs & Dougherty, [1883]. 22 cm. x 28 cm., illus. Annotated. Text gives brief description of machine's operation.

3. Brown, M.H., Patent Pin & Coupling Bending Machine. 21 Contland St., New York: M.H. Brown, n.d. 7 cm. x 22 cm., illus. Gives price and use of machine.

4. Cochrane, John, ... Steam Hammers and Stamps .... Barrhead, Scotland: John Cochrane, n.d. 22 cm. x 28 cm., illus. Illustrates and gives specifications for five steam hammers.

5. Ferracute Machine Company, Foot and Power Presses, Spinning Lathes, Trimmers, Beaders, Threaders, Dies, and Other Sheet-Metal Tools. (Sheet 32). Bridgetown, N.J.: Ferracute Machine Co., Dec. 20, 1898. Printed by Hayes Bros., Philadelphia. 48 cm. x 61 cm., illus., Colour. Photographs of "Sundry Presses with Special Attachments...."

6. Ibbotson Brothers & Co., Globe Iron & Steel Works, Steam Hammers. (Sheet No. 46). Sheffield, Eng.: Ibbotson Brothers & Co., n.d. 49 cm. x 30 cm., illus. Illustrates and gives price lists for: single standard hammer, double standard hammer, and Davy's patent.

7. Stevens, Hamilton & Co., Description of the Principal Features of the Hackney Pneumatic Power Hammer. Galt, Ont.: Stevens, Hamilton & Co., n.d. 23 cm. x 30 cm., illus.

8. Nasmyth, Wilson & Co., Ltd., Bridgewater Foundry, Specification. Patricroft, Nr. Manchester, [Eng.]: Nasmyth, Wilson & Co., March 5, 1883. 21 cm. x 31 cm., illus. Written additions provide information on 7 cwt. and 10 cwt. steam hammers. Accompanied by letter of same date with photograph. Both Addressed to Messrs. Midland Railway of Canada, Port Hope, Ontario.

(Vol. 27 cont'd)

9. Morrison Bros., Soho Machine Works, Power Spring Hammer 80 Lb. Ram. Esplanade St., Toronto: Morrison Bros., n.d. 22 cm. x 28 cm., Annotated. Text gives price, description, and directions.

10. Morrison, Bros., Soho Machine Works, Manufacturers of Iron Tools Railroad Supplies Wood Working Machinery. Explande [St.], Toronto: Morrison Bros., n.d. 7.9 cm. x 14.5 cm., Colour. Trade card for machine works company.

11. Hulse & Co., Ordsal Tool Works, Steam Hammer. No. 2. Salford, Manchester, [Eng.]: Hulse & Co., n.d. 32 cm. x 20.4 cm., illus. Short description of hammer. 5 cwt. and 8 cwt. hammers available.

VOLUME: 28

1. McCuaig, John F., Patent Plastic Slate for Roofing and Other Purposes. 31 St. Francois Xavier St., Montreal: John McCuaig, [1868?]. 18 cm. x 29 cm. Sample of the roofing material inserted in envelope on back. Text lists composition, advantages, and uses, and includes Canadian and American testimonials. Also Agent for various products produced by Hurlford Works, Nr. Glasgow, [Scotland].

2. Wm. B. Scaife & Sons, Manufacturers of Corrugated Iron. 221 First Ave., Pittsburgh, Pa.: Wm. B. Scaife & Sons, 1876. Printed by Myers & Shinkle Co., Pittsburgh. 77 cm. x 52 cm., illus., Scale indicated. Works located at Oakmount, Pa. Advertisement primarily for corrugated iron; iron roof frames, trusses, girders and other building material; kitchen range boilers; and corrugated iron.

3. Morton (Francis) & Co., Ltd., ... Galvanized Iron and Galvanized Tinned Sheets ... Galvanized Iron Roofing Tiles. Price List. Liverpool: 187-. 21.2 cm. x 27.5 cm.

VOLUME: 29

1. Gustavino Fireproof Construction Co., ... Gustavino Tile Arch System. 57th St., New York: Gustavino Fireproof Construction, 1892. 33 cm. x 45 cm., illus. Appears to be flyer distributed with "American Architect and Building News," Jan. 9, 1892. Lists contracts where system has been used.

2. Heuvelman, Haven & Co., Improved Construction for Fire-Proof Buildings. 77 & 83 Liberty St., New York: Heuvelman Haven & Co., n.d. Printed by Am. Photo-Lithographic Co. N.Y. 36 cm. x 48 cm., illus. Advertisement for "Patent Fire-Proof Hollow Tiles" manufactured by the company. Company formerly Novelty Iron Works.

3. Heuvelman, Haven & Co., Patent Fire-Proof Hollow Tile Floors and Partitions. 77 & 83 Liberty St., New York: Heuvelman Haven & Co., n.d. 24 cm. x 36 cm., illus. Two illustrations showing how tiles can be used in construction.

VOLUME: 32

1. Adjustable Saw Table Co., Farwell's Adjustable Saw Tables. 109 Water St., Fitchburg, Mass.: Adjustable Saw Table Co. [1894]. 22 cm. x 26 cm., illus. Illustration of four-saw iron bench and drop leaf iron or skeleton top. Text describes construction, advantages, and prices.

2. American Wood Woodking Machinery Co., Chicago, New Orleans, New York, Glen Cove Six Roll Boss Timber Sizer. 136 Liberty St., N.Y.: American Wood Working Machinery Co., n.d. 30 cm. x 56 cm., illus. Text describes construction, belting required, and shipping schedule. Also scale drawing of "Floor Plan of Six Roll Sizer." Printed on both sides.

3. Henry L. Beach, Beach's Patent Spiral Spring Scroll Sawing Machines. Montrose, Susq. Co. Pa.: Henry L. Beach, n.d. Printed by: Livesey Bros., 62 Centre St., N.Y. 43 cm. x 56 cm., illus. Four saws are illustrated. Construction, uses and operation described. Printed on both sides.

(Vol. 32 cont'd)

4. Cant, Gourlay & Co., Galt Machine Works, Combined Planing and Matching Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 39 cm. x 27 cm., illus. See also Vol. 32, Cat. 9 (47 Broadsides). Patented Aug., 1874. Text desceibes construction.

5. J.A. Fay & Co., Wood Working Machinery. Front and John Sts., Cincinnati, Ohio: J.A. Fay & Co., n.d. 63 cm. x 96 cm., illus., Colour. Numerous illustrations of wood working machinery with brief specifications. Medals awarded from 1851 to 1885.

6. A.S. & J. Gear & Co., New Haven, Conn. and Concord, N.H., Baxter's Patent Non-Shaking Balanced Jig Saw. New Haven, Conn.: A.S. & J. Gear & Co., n.d. 22 cm. x 26 cm., illus. Text describes peration and advantages of saw. Testimonials given.

7. J.A. Fay & Co., High Grade Wood Working Machinary. 512 West Front St., Cincinnati, Ohio: J.A. Fay & Co. n.d. 63 cm. x 96 cm., illus., Colour. Numerous illustrations of wood working machinery with brief specifications. Medals awarded from 1851-1893.

8. Ibbotson Brothers & Co., Saw Manufacturers, Warranted Cast Steel Circular Saws, for Wood and Iron, Showing Various Kinds of Teeth. Sheet No. 4. Sheffield, England: Ibbotson Brothers & Co., n.d. 31 cm. x 50 cm., illus. Numerous illustrations of hand and machine saws.

9. MacGregor, Gourlay & Co., Traversing Hand Gaining Machine. Galt, Ont.: MacGregor, Gourlay & Co., n.d. 15 cm. x 23 cm., illus. Text briefly describes construction and operation.

10. McKechnie & Bertram, Canada Tool Works, Price List of ... Machinists' Tools and Wood Working Machinery. Dundas, Ont.: McKechnie & Bertram, 1869. 20 cm. x 28 cm.

11. C. Mattison Machine Works, No. 3 Column Turning Machine. Beloit, Wis.: C. Mattison Machine Works, n.d. 30 cm. x 42 cm., illus. Machine Patented Sept. 21, 1897. Text gives fairly detailed description of machine.

12. H.B. Smith, Patent Wood-Working Machinery. Moulding Machine B., or No. 1. [Smithville, N.J.]: H.B. Smith, n.d. 32 cm. x 38 cm., illus. Text describes machine and lists prices.

(Vol. 32 cont'd)

13. Western & Co., Chaddesden-Works, Makers of all Kinds of Wood Working & Stone Working Machinery. Derby, [Ensland]: Western & Co., n.d. 10 cm. x 14 cm., illus., Colour. Trade card for engineering and machinist firm. Printed on both sides. Medal awards from 1862-1878. Formerly Powis, James, Western & Co., Lambeth.

14. The Coe Manufacturing Co., Rotary Cutting Veneer Machines. Painseville, Ohio: The Coe Manufacturing Co., n.d. 14 cm. x 8 cm. Printed on wood veneer.

15. American Wood Working Machinery Co., New York and Chicago, Glen Cove No. 62, Planer and Matcher. 136 Liberty St., New York: American Wood Working Machinery Co., n.d. 30 cm. x 56 cm., illus. Text describes construction, belting required and shipping schedule. Also scale drawing of floor plan. Printed on both sides.

16. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Sand Papering Machine. The Shimer Cutter Heads, for Tongueing and Grooving. Solid Steel Cutters, by the Battle Creek Machinery Co. Galt, Ont.: Cant, Gourlay & Co., n.d. 21.1 cm. x 26.6 cm., illus.

17. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., The Boss Sand-Papering Machine, Single Cylinder, Perry's Patent. Galt, Ont.: Cant, Courlay & Co., n.d. 26.6 cm. x 20.6 cm., illus.

18. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Double Cylinder Machine. The "Boss" Sand-Papering Machine, Perry's Patent. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.2 cm. x 20.7 cm., illus.

19. Cant, Gourlay & Co., Galt, Ont., Wood-Turning Lathe. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.5 cm. x 20.8 cm., illus.

20. Cant, Gourlay & Co., Galt, Ont., Improved Gauge Lathe. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 20.5 cm., illus.

21. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Upright Shaping Machine, No. 1. Upright Shaping Machine, No. 2. Panel Head and Arbor. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 21 cm., illus.

(Vol. 32 cont'd)

22. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Edge Moulding Machine or Frizzer, (Single Spindle.) Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 20.7 cm., illus.

23. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Combined Edge and Surface Moulding, Carving & Panelling Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.3 cm. x 20.8 cm., illus.

24. Cant, Gourlay & Co., Galt, Ont., Moulding Machine No. 2. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.8 cm. x 21.2 cm., illus.

25. Cant, Gourlay & Co., Galt, Ont., No. 1 Moulding Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.7 cm. x 20.7 cm., illus.

26. Cant, Gourlay & Co., Galt, Ont., No. 1 Moulding Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.7 cm. x 20.6 cm., illus.

27. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Grinding Machine for Planer Knives. Planing and Moulding Knives. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.1 cm. x 20.7 cm., illus.

28. Cant, Gourlay & Co., Galt, Ont., Improved Daniels' Planing Machine and Dimension Planer. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.7 cm.x 26.3 cm., illus.

29. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Dimension Planer. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.8 cm. x 26.3 cm., illus.

30. Cant, Gourlay & Co., Galt, Ont., Jointer, or Buzz Planer. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.2 cm. x 20.6 cm., illus.

31. Cant, Gourlay & Co., Wood-Working Machinery, Galt Ont., Jointer or Buzz Planer. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.7 cm. x 21.1 cm., illus.

32. Cant, Gourlay & Co., Galt, Ont., Surface Planers. For Thicknessing and Planing one Side--Roller Feed. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.2 cm. x 20.7 cm., illus.

(Vol. 32 cont'd)

33. Cant, Gourlay & Co., Galt, Ont., Endless Bed Single Surfacer. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.4 cm. x 21 cm., illus.

34. Cant, Gourlay & Co., Galt, Ont., No. 1 Single Surface Endless Bed Planer. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.5 cm. x 26.3 cm., illus.

35. Cant, Gourlay & Co., Galt, Ont., No. 1 Double Surface Endless Bed Planer, with Delivery Rolls. Galt, Ont.: Cant, Gourlay & Co., n.d. 21.3 cm. x 26.8 cm., illus.

36. Cant, Gourlay & Co., Galt, Ont., No. 4 Planing and Matching Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 27 cm. x 21.3 cm., illus.

37. Cant, Gourlay & Co., Galt, Ont., No. 3 Planing and Matching Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.5 cm. x 20.8 cm., illus.

38. Cant, Gourlay & Co., Galt, Ont., No. 2 Planing & Matching Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.6 cm. x 25.5 cm., illus.

39. Cant, Gourlay & Co., Galt, Ont., No. 1 Planing and Matching Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.7 cm. x 25.7 cm., illus.

40. Cant, Gourlay & Co., Galt, Ont., Blind Slat Wiring Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.8 cm. x 20.5 cm., illus.

41. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., The Ellis Blind Slat Tenoning Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.7 cm. x 21 cm., illus.

42. Cant, Gourlay & Co., Galt, Ont., Improved Blind Slat Tenoning Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.9 cm. x 20.6 cm., illus.

43. Cant, Gourlay & Co., Galt, Ont., Blind Stile Boring & Morticing Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.5 cm. x 20.7 cm., illus.

(Vol. 32 cont'd)

44. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Post Boring Machine No. 1. Post Boring Machine No. 2. Double Emery Gringder. Foot Mitreing Machine. Galt, Ont.: Cant Gourlay & Co., n.d. 20.9 cm. x 26.3 cm., illus.

45. Cant, Gourlay & Co., Galt, Ont., Power Morticing Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.2 cm. x 20.5 cm., illus.

46. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Foot Morticers. Galt, Ont.: Cant, Gourlay & Co., n.d. 21.1 cm. x 26.7 cm., illus.

47. Cant, Gourlay & Co., Galt, Ont., Tenoning Machine. Galt, Ont.: Cant, Gourley & Co., n.d. 25.8 cm. x 20.6 cm., illus.

48. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Three-Spindle Vertical Boring Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 20.7 cm., illus.

49. Cant, Gourlay & Co., Galt, Ont., Saw Sharpener and Moulding Knife Grinder. Galt, Ont.: Cant, Gourley & Co., n.d. 25.8 cm. x 20.6 cm., illus.

50. Cant, Gourlay, & Co., Galt, Ont., Saw Arbors. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.5 cm. x 20.6 cm., illus.

51. Cant, Gourlay & Co., Galt, Ont., Machines for Blind Manufacture. Blind Slat Re-Sawing Machine. Crosby Blind Slat Wiring Machine. Blind Slat Re-Sawing Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 20.7 cm. x 26.3 cm., illus.

52. Cant, Gourlay & Co., Galt, Ont., Improved Band Sawing Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 20.7 cm., illus.

53. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Band Saw Set. Requisites for Band Saws. Directions for Joining Saws. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.2 cm. x 20.6 cm., illus.

54. Cant, Gourlay & Co., Galt, Ont., Circular Re-Sawing Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 27 cm. x 21.2 cm., illus.

(Vol. 32 cont'd)

55. Cant, Gourlay & Co., Galt, Ont., Eureka Scroll Saw Machine. Galt, Ont.: Cant, Gourlay & Co., n.d. 27 cm. x 21.3 cm., illus.

56. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Iron Frame Swing Saw. Scroll Saw. Galt, Ont.: Cant, Gourlay & Co., n.d. 21.1 cm. x 26.6 cm., illus.

57. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Re-Sawing Machine--Vertical and Circular Combined. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.5 cm. x 38.7 cm., illus.

58. Cant, Gourlay & Co., Galt, Ont., Improved Carriage Cut-Off Saw. Galt, Ont.: Cant, Gourlay & Co., n.d. 25.5 cm. x 20.8 cm., illus.

59. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Railway Cutting-Off Saw Table. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.3 cm. x 20.7 cm., illus.

60. Cant, Gourlay & Co., Galt, Ont., Rip Saw Table. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.3 cm. x 20.7 cm., illus.

61. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Iron Frame Gang Rip-Saw Table. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.3 cm. x 20.7 cm., illus.

62. Cant, Gourlay & Co., Wood-Working Machinery, Galt, Ont., Combined Rip and Cross-Cut Saw Table. Galt, Ont.: Cant, Gourlay & Co., n.d. 26.3 cm. x 20.7 cm., illus.

63. Richards, Kelley & Co., Philadelphia, Improved No. 2 Band Sawing Machine. Pat. 1870. Philadelphia: Richards, Kelley & Co., n.d. 28.5 cm. x 21.7 cm., illus.

64. [Richards, London & Kelley], Atlantic Works, Philadelphia, No. 1, Band Saw Machine (B-). Pat. 1870, 1871. Montreal: James R. Annett, Agent, n.d. 27.9 cm. x 21.6 cm., illus.

65. [Richards, London & Kelley], Atlantic Works, Philadelphia, No. 2 Band Sawing Machine. Pat. 1870, 1871. No. 27 Dalhousie St., Montreal: James R. Annett, Agent, [1872]. 27.9 cm. x 21.6 cm., illus. Includes testimonial, from the Oshawa Cabinet Co.

(Vol. 32 cont'd)

66. Richards, London & Kelley, Atlantic Works, Philadelphia, Carriage Cut-Off Saw Machine. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 18.5 cm., illus.

67. Richards, London & Kelley, Atlantic Works, Philadelphia, Compound Timber Planing Machine, with Carriage, to Plane 2 or 3 Sides. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 36.4 cm., illus. Illustration only, no description.

68. Richards, London & Kelley, Atlantic Works, Philadelphia, Iron Frame Transverse Planing Machine. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 34.5 cm., illus. Illustration only, no description.

69. Richards, London & Kelley, Atlantic Works, Philadelphia, Vertical Boring Machine. Horizontal Boring Machine. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 35.3 cm., illus. Illustrations and specifications.

70. Richards, London & Kelley, Atlantic Works, Philadelphia, Cross-Gaining and Rebating Machine. For Bolsters, End Sills, Studding, Bridge Timbers and Other Framing. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 35 cm., illus.

71. Richards, London & Kelley, Atlantic Works, Philadelphia, Reciprocating Mortising Machine. Tenoning Machine with Carriage. Philadelphia: Richards, London & Kelley, n.d. 19.8 cm. x 35 cm., illus. Illustrations and specifications.

72. Richards, London & Kelley, Atlantic Works, Philadelphia, Rotary Mortising Machine for Railway Carriage Framing. Philadelphia: Richards, London & Kelley, n.d. 19.6 cm. x 35.4 cm., illus. Illustration only, no description.

73. Richards, London & Kelley, Atlantic Works, Philadelphia, Reciprocating Mortising, and Boring Machine.... Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 18.2 cm., illus. Illustration only, no description.

74. Richards, London & Kelley, Atlantic Works, Philadelphia, Slitting Saw Benches. Philadelphia: Richards, London & Kelley, n.d. 19.7 cm. x 36.3 cm., illus. Illustrations and specifications.

VOLUME: 37

1. J.H. Burrell Jr., Sole Agent, The Watchman's Safety Lantern. 4948 Germantown Ave., Philadelphia, Pa.: J.H. Burrell, n.d. Printed by Allen, Lane & Scott. 20 cm. x 26 cm., illus. Text includes testimonial from President of Boston Manufacturers' Mutual Fire Insurance Co.

2. The Dangler Stove & Manufacturing Co., Chicago, Ill. and Cleveland, Ohio, Dangler Oil and Gasoline "Electric" Torches. Chicago, Ill.: The Dangler Stove & Manufacturing Co., n.d., 15 cm. x 33 cm., illus. Text describes advantages of oil and gasoline torches.

3. R.F. Fairlie & Co., Designs of Lamps for Street and Railway Stations. n.p.: R.F. Fairlie & Co., n.d. 49 cm. x 59 cm., illus. Illustrates several lamp designs. Lists depots where lamps are installed.

4. Grant's Lamp. n.p.: n.d. 18 cm. x 23 cm., illus. Advertisement for "Improved Patent Lamp, for Burning the Magnesium Metal Wire & Ribbon" - Used in photography.

5. Prince & Symmons, Agents, Patent Triplex Star Burner. 128 & 130 Commercial St., London: Prince & Symmons, n.d. 30 cm. x 50 cm., illus. Patented 1866. Large illustration of lamp.

6. Riband Telegraph Post Co., Ltd., Lee & Rogers Patent. New Islington, Manchester, [Eng.]: Riband Telegraph Post Co., Ltd., n.d. 54 cm. x 40 cm., illus., Colour. Illustrations of 4 lamp posts made of intertwined riveted metal strips.

7. John Russell & Co. Ltd., Price List of Chandeliers, Brackets, Lobby Lamps, Pillars and Pendants. 145 Queen Victoria St., London: John Russell & Co., Ltd., August, 1879. 28.5 cm. x 43 cm. Accompanies Vol. 37, broadside 8.

8. [John Russell & Co., Ltd.], New Designs of Chandeliers, Brackets, Lobby Lamps, Pillars & Pendants. [145 Queen Victoria St., London: John Russell & Co., Ltd., August, 1879]. 50 cm. x 63 cm., illus., Colour. Accompanied by price list, Vol. 37, Broadside 7.

VOLUME: 50

1. [First Communion Certificate] Eglise De St. Joseph, Rue Richmond, Montreal, P.Q. Montreal: 1884. 37 cm. x 48 cm., illus., Colour. Annotation: "Gideon Tanguay A Fait Sa Première Communion et a été Confirmé le 17 mai 1884...."

VOLUME: 56

1. American Railway Master Mechanics' Association, Hubliners. 256 Broadway, New York: American Railway Master Mechanics' Association, 23 March, 1896. 22.9 cm. x 15.2 cm., Annotated. questionnaire for members concerning hubliners. Hubliner committee composed of: R.H. Soule, Mord Roberts, W.T. Reed, A.J. Cromwell, T.B. Miles.

2. A.W. Cadmen Mfg. Co., Cadman's Aluminum Babbitt Metal. 63 Water St., Pittsburgh, Pa.: A.W. Cadman Mfg. Co., n.d. 8.6 cm. x 15.4 cm. Advertisement printed on a blotter. Patent dated Dec. 1, 1891.

3. American Railway Master Mechanics' Association. Relative Value of Iron and Steel for Locomotive and Car Axles. 140 Nassau St., New York: American Railway Master Mechanics' Association, 11 February, 1891. 21.6 cm. x 13.9 cm. A questionnaire concerning axles. Committee composed of: John MacKenzie, J.S. Graham, John S. Cook.

4. American Railway Master Mechanics' Association, The Best Form and Size of Axles for Heavy Tenders. 140 Nassau St., New York: American Railway Master Mechanics' Association, 12 December, 1889. 23.9 cm. x 14.9 cm., illus. A questionnaire concerning axles. Committee composed of: W. Swanston, W. Garstang, Jos. Maglenn, L.R. Pomeroy.

5. H.W. Smith & Co., 171 Broadway, New York: H.W. Smith & Co., n.d. 29.1 cm. x 20.5 cm., illus. Text describes advantages of product.

6. J.B. Brown & Co., Agents, London, Craig's Improved Patent Axle Boxes and Sliding Shoes. London: n.d. 57 cm. x 82.2 cm., illus. Drawings and description. Broadside has been cut and piece is missing.

VOLUME: 61

1. Board of Steamboat Inspection, RULES for the Guidance of Engineers and Firemen in the Management of Steamboat Boilers. Toronto: Chairman's Office, Board of Steamboat Inspection, 28 June, 1882. 24.3 cm. x 19.1 cm. Attached to Broadside 2. Chairman: S. Risley.

2. Privy Council Clerk, Duties and Liabilities of Engineers Under the Provisions of the Act 31 Vic., Cap. 65, of the Dominion of Canada, Intituled "An Act Respecting the Inspection of Steamboats, and for the Greater Safety of Passengers by them." Ottawa: Privy Council Chambers, 14 May 1875. 24.5 cm. x 38.7 cm. Attached to Broadside 1. Clerk Privy Council: W.A. Himsworth.

VOLUME: 64

1. National Tube Works Co., "Mach's Patent" Injector. Boston: National Tube Works, Co., n.d. 19 cm x 27 cm., illus.

2. Worthington, Henry R., General Arrangement of 24" - 2 Stage Vertical Turbine Pump. New York: Henry R. Worthington, 18 November 1904. 76 cm. x 40.5 cm., illus. Scale indicated.

VOLUME: 66

1. S.S. Wheeler, Chart of Wire Gauges. New York: The Electrical World, 1887. 60.9 cm. x 84.8 cm. Gauges sizes in thousandths of an inch.

VOLUME: 68

1. The Klein Engineering Company Limited, Klein's Patent Engineering Specialties. 8 & 9 South Parade, Manchester: The Klein Engineering Company Limited, n.d. 56.7 cm. x 88.2 cm., illus. Printed by James Collins & Co. Ltd., Manchester . Advertisement for condensing plants, pumps, various types of coolers including chimney coolers.

VOLUME: 69

1. The Westinghouse Machine Co., Details of 12 x 11 (75 Horse-Power) Westinghouse Automatic Engine. n.p.: The Westinghouse Machine Co., n.d., 87.6 cm. x 103.9 cm., illus. Numerous illustrations of parts giving piece number, name, cipher word, material, shipping weight, and price for each part. Gives list with addresses of general agencies for company.

VOLUME: 77

1. George Spence & Co., Sole Licences, G. A. Hock's Patent Carriage Body Spring. 6 Cannon St. W., London: George Spencer & Co., n.d. 72.4 cm. x 47.7 cm., illus., Colour. Scale indicated.

2. New York Metallic Car Spring Company, Reference to Accompanying Manner of Applying the Conical Volute Car Springs. New York: New York Metallic Car Spring Company, n.d. 77.2 cm. x 119.2 cm., illus. Scale indicated. Detailed drawings.

3. Charles Cammell & Company, Cyclops Steel Works, New York and Sheffield, Prepared Cast Steel Railroad Car Spring, Plate No. 1. Sheffield, [England]: Charles Cammell & Company, [1857]. Printed by Martin & Hood Lith, London. 58.9 cm. x 84.6 cm., illus., Colour. Scale 1 1/2 inch to 1 foot. Date Annotated. Illustrations Show: "Truck for Freight or Platform Cars." - Primarily longitudinal elevation, transverse section, and plan.

(Vol. 77 cont'd)

4. Charles Cammell & Company, Cyclops Steel Works, New York and Sheffield, Prepared Cast Steel Railroad Car Springs, Plate No.2. Sheffield, England: Charles Cammell and Company, [1857]. Printed by Martin and Hood, Lith., London. 66.1 cm. x 81.9 cm., illus., Colour. Scale 1 1/2 inch to 1 foot. Date annotated. Illustrations show: "Truck for Freight or Platform Cars. Six Wrought Iron Wheels." Primarily longitudinal elevation, transverse section, and plan.

5. Charles Cammell & Co., Cyclopes Steel Works, New York & Sheffield, Prepared Cast Steel Railroad Car Springs, Plate No. 3. Sheffield, [Eng.]: Charles Cammell & Co., [1857]. Printed by Martin & Hood, Lith., London. 58.9 cm. x 84.6 cm., illus., Colour. Scale 1 1/2 inch to 1 foot. Date annotated. Illustrations show: "Truck for Passenger Cars." -Primarily longitudinal, elevation, transverse section, & plan.

6. Charles Cammell & Company, Cyclops Steel Works, New York and Sheffield, Prepared Cast Steel Railroad Car Springs, Plate No. 4. Sheffield, [England]: Charles Cammell & Company, [1857]. Printed by Martin & Hood, Lith., London. 58.9 cm. x 84.6 cm., illus., Colour. Scale: 1 1/2 inch to 1 Foot. Date annotated. Illustrations show "Truck for Passenger Cars, With Patent Wood Wheels." - Primarily longitudinal elevation, transverse section, and plan.

7. Charles Cammell & Company, Cyclops Steel Works, Plate No. 6. Sheffield, England: Charles Cammell & Company, n.d. Printed by Martin & Hood, Lith., London. 62.3 cm. x 98 cm., illus., Colour. Scale: 1 1/2 inch to 1 Foot. Illustrated sheet of locomotive engine wheels and axles.

8. Charles Cammell & Company, Cyclops Steel Works, Prepared Cast Steel Engine and Tender Springs, Plate No. 5. Sheffield [England]: Charles Cammell & Comapny, n.d. Printed by Martin & Hood, Lith., London. 88.8 cm. x 62.1 cm., illus. Colour. Scale half full size. Illustrations of springs.

9. Charles Cammell & Co. Limited, Cyclops Steel & Iron Works, Plan of Stationary Buffer Arrangement. Sheffield, England: Charles Cammell & Co. Limited, n.d. 44 cm. x 64.5 cm., illus. Scale 1 inch to 1 Foot.

(Vol. 77 cont'd)

10. Charles Cammell & Co. Limited, Cyclops Steel & Iron Works, Wharton's Patent Bearing and Buffing Springs, Plate 41. Sheffield, England: Charles Cammell & Co. Limited, n.d. 71.6 cm. x 48.2 cm., illus., 1/4 full size. Illustrations and specifications of engine, wagon and buffer springs.

11. Charles Cammell & Comapny, Limited, Cyclops Steel & Iron Works, Allan's Patent Compound Wagon Buffer, No. 20A. Sheffield, England: Charles Cammell & Co., Limited, n.d. 43.1 xm. x 64 cm., illus., colour. Scale: full size. Illustration shows cross-section.

12. Charles Cammell & Co., Limited, Cyclops Steel & Iron Works, Draw Spring, No. 52D. Sheffield, England: Charles Cammell & Co., Limited, n.d. 44.3 cm. x 65 cm., illus, colour. Scale: full size. Illustration shows cross-section.

13. Charles Cammell & Co., Limited, Cyclops Steel & Iron Works, Allan's Patent Compound Engine & Tender Buffer, No. 1A. Sheffield, England: Charles Cammell & Co., Limited, n.d. 43.8 cm. x 63.9 cm., illus., colour. Scale: full size. Illustration shows cross-section.

14. Charles Cammel & Co., Limited, Cyclops Steel & Iron Works, Allan's Patent Compound Engine & Tender Buffer, No. 2A. Sheffield, England: Charles Cammell & Co., Limited, n.d. 42.7 cm. x 64.9 cm., illus., colour. Scale: full size. Illustration shows cross-section.

15. Charles Cammell & Co., Limited, Cyclops Steel & Iron Works, Wagon Buffer, No. 24W. Sheffield, England: Charles Cammell & Co., Limited, n.d. 44.4 cm. x 55.1 cm., illus., colour. Scale: full size. Illustration shows cross-section.

16. Charles Cammell & Co., Limited, Cyclops Steel & Iron Works, Wagon Buffer, No. 34W. Sheffield, England: Charles Cammel & Co., Limited, n.d. 44.6 cm. x 65.3 cm., illus., colour. Scale: full size. Illustration shows cross-section.

17. Charles Cammell & Co., Limited, Cyclops Steel & Iron Works, Wagon Buffer, No. 35W. Sheffield, England: Charles Cammell & Co., Limited, n.d. 44.3 cm. x 63.9 cm., illus., colour. Scale: full size. Illustration shows cross-section.

(Vol. 77 cont'd)

18. National Car Builder, Details of Graham's Equalizer for R.R. Passenger Car Trucks. Supplement to the "National Car Builder," n.d. 54.8 cm. x 73.5 cm., illus. Scale: half size. Patent date 31 January 1871. Text gives explanation of operation.

19. Charles Cammell & Co., Limited, Cyclops Steel, & Iron Works, Patent Spring Bolt Fastener. Sheffield, England: Charles Cammell & Co., Limited, n.d. 44.7 cm. x 65.9 cm., illus. Scale: 1/4 full size.

20. Kingston India Rubber Mills, S. Moulton's Patent, India Rubber Spring with Spiral Coil of Steel Wire. Bradford on Avon, Wilts: Kingston India Rubber Mills, n.d. 32.1 cm x 47.7 cm., illus., Annotated. Scale: half full size. Annotation: sample of each kind of spring left with R. Eaton Esq. to be tested." "Waddell & Pearce Sole Agents for Canada."

21. The New York Car Spring Co., P.G. Gardiner's Patent, 1869. 320 7th. Ave., New York: The New York Car Spring Co., n.d. 48.8 cm. x 43 cm., illus. Scale: full size. Advertising sheet for composite equalizing bar spring of steel, rubber & cotton. Annotated price.

VOLUME: 78

1. McBride Hydraulic Brake [Co.], The McBride Hydraulic Brake. 243 S.6th St., Philadelphia, Pa.: McBride Hydraulic Brake, n.d. 24.5 cm. x 65.7 cm., illus.

2. Great Western Railway, Narrow Guage Covered Goods Wagon. England: Great Western Railway, n.d. Lithographed by H. Coley, London. 56.4 cm. x 76 cm., illus. Scale: 1 inch to a foot. Drawings of wagon hand brake.

VOLUME: 79

1. Walter Dawson, Improvements in Valve Rods and Stems, for Steam Engines. Scranton, Pa.: Walter Dawson, [1882]. 27.5 cm. x 21.3 cm., illus. Patent date: 9th May 1882.

VOLUME: 80

1. Gold Car-Heating Company, Sewall Coupler with Gold Trap and Hose Nozzle. Cor. Frankfort & Cliff St., New York: Gold Car-Heating Company, 1888. 27.8 cm. x 20.3 cm., illus. Text: Extract from Railroad Gazette, May 4, 1888.

2. Gold Car Heating Company, Gold's Interchangeable Steam Coupling, with Automatic Taps. Cor. Frankfort & Cliff Sts., New York: Gold Car Heating Company, n.d. 30.2 cm. x 23.7 cm., illus.

3. Pedrick & Ayer Co., Air Hose Coupling. 1001 Hamilton St., Philadelphia Pa.: Pedrick & Ayer Co., n.d. 22 cm. x 17.8 cm., illus. An advertising sheet identified as "Form 2-10-95- Novelty-500."

4. James R. Davies, Syphon Car Ventilator. No. 13 Park Row, New York: James R. Davies, 1887. 28.1. cm. x 21.6 cm., illus. An advertising sheet.

5. James Spear, Anti-Clinker Coal-Burning Railway Car-Heaters and Ventilators. 1014 & 1016 Market St., Philadelphia, Pa.: James Spear, n.d. 56.4 cm. x 35.7 cm., illus.

VOLUME: 85

1. The E. Howard Watch and Clock Co., New York Life Insurance Co.'s Building, New York. 41 Maiden Lane, N.Y.: The E. Howard Watch and Clock Co., Dec. 12, 1898. 38 cm. x 22.9 cm., illus. A testimonial from the New York Life Insurance Company regarding the clock in the tower of their office building which was installed by the E. Howard Company.

VOLUME: 86

1. American Railway Master Mechanics' Association, Magnetic Influence of Iron and Steel in Locomotives on the Watches of Engine Runners. 175 Dearborn St., Chicago: American Railway Master Mechanics' Association, 25 February, 1888. 21.4 cm. x 13.6 cm., Annotated. A Questionnaire. Committee Composed of: James Meehan, Harvey Middleton, T.W.Gentry.

VOLUME: 87

1. Hannan & Buchanan, Buchanan's Improved Engine Counter. The Only Reliable Counter for Pumping or Marine Engines, Patent No. 7011. 75 Robertson St., Glasgow: Hannan & Buchanan, n.d. 26 cm. x 20.6 cm., illus. An advertising sheet with reference to advantages over Harding's Patent engine counter. Annotated regarding price.

2. James Ainsworth, Table of Geometrical Figures for Purposes of General Reference, to Illistrate the Treatise on Practical Ceometry. 87 & 93 Piccadilly, Manchester: James Ainsworth, n.d. 42.2 cm. x 51.4 cm., illus.

3. J. Wright Clarke, Clarke's Tables. 92 & 93 Fleet St., London; R.J. Bush & Co., 1893. 21.8 cm. x 28.1. cm. A Publisher's Advertising Sheet for "Clarke's Pocket Book for Plumbers, Architects, Sanitary Engineers, etc.

VOLUME: 89

1. Fort Wayne Electric Works, Fort Wayne Series Alternating System. Fort Wayne, Indiana: Fort Wayne Electric Works, n.d. 27.9 cm. x 20.3 cm., illus. An Advertising Sheet for Type SA Series Alternating Current Regulator for Interior Installations. "Advance Information Sheet - Type SA Regulator."

VOLUME: 95

1. The Illustrated Naval and Military Magazine, Distribution List of Her Majesty's Sea Forces, For July 1884. The Royal Navy. [England]: The Illustrated Naval and Military Magazine, 1884. 62.2 cm. x 48.5 cm.

VOLUME: 97

1. Wm. R. Morrison et. al Interstate Commerce Commission, Washington, D.C. The Interstate Commerce Commission Contradicts Itself, Full Text of the Commission's Letter to the House Committee on Commerce, May 9th, 1890. n.p.: The Northwestern Railroader, October 3, 1890. 34.5 cm. x 17.8 cm. A Supplement to the "Northwestern Railroader" Containing a letter or advisory document regarding violation of the interstate act in the transportation of petroleum.

VOLUME: 98

1. American Railway Master Mechanics' Association, New York, Special Shop Tools. 5 Beekman St., New York: American Railway Master Mechanics' Association, December 22, 1893. 21.5 cm. x 13.8 cm. A request to members for information on use of appliances for locomotive manufacture and repair. Committee composed of: T.W. Gentry, Geo. L. Potter, H.D. Gordon, G.R. Joughins, Wm. Swanston, F.B. Miles.

VOLUME: 100

1. T.H. Kent, The Ideal Brown Bread, Manufactured from "Carr's Malt," Carr & Co.'s Celebrated Malt Meal. 18 Brace St., Bedford: T.H. Kent, n.d. 21.9 cm. x 14.1 cm., illus. An Advertising Sheet for Bread Made by T.H. Kent from Malt Meal Prepared by Carr & Co., Ltd., Millers and Biscuit Manufacturers, Carlisle.

(Vol. 100 cont'd)

2. James Johnston & Co., Thorp St. Mill, Macclesfield, and Manchester, The "Woolwich" Steam Oven. 4, Corporation St., Manchester: James Johnston & Co., [1892]. 40.3 cm. x 25.1. cm., annotated. Advertising sheet with testimonials & tables regarding efficiency & economy of bakery oven patent 1889.

VOLUME: 101

1. Water Department, Wilmington, Water Department. To the Citizens of Wilmington. Wilmington: Water Department, n.d. 21.4 cm. x 13.8 cm. Notice telling the citizens of the high quality and cheapness of the water provided by the department.

2. A.H. Kennedy, The Kennedy Duplex Vertical Spud Water Meter Steeing. Rockport, Indiana: A.H. Kennedy, n.d. 27.9 cm. x 21.6 cm., illus. Advertising sheet giving advantages of meter. Rubber stamp: "Patent February 10/ 09".

VOLUME: 103

1. E.F. Bennett, Application for Position. St. Louis, Missouri: E.F. Bennett, n.d. 8.2 cm. x 14.3 cm. Resumé card for a station agent and train master seeking a position in office, or on the road.

VOLUME: 105

1. The Western Gas Construction Co., "Western Gas." Double Superheater, Water Gas Apparatus. Fort Wayne, Indiana: The Western Gas Construction Co., n.d. 22.9 cm. x 15.4 cm., illus. Advertising sheet-form 182.

VOLUME: 106

1. A. Falkenau, Manufacturer of Machinery and Tools, Loss Patent Rotary Hydraulic Valve. Cor. 11th St. & Ridge Ave., Philadelphia, Pa.: A. Falkenau, n.d. 23.1. cm. x 14.7 cm., illus. Advertising sheet.

2. Crosby Steam Gage & Valve Co., Boston, Chicago, New York and London, The Johnstone Blow - Off Valve. 93& 95 Oliver St., Boston: Crosby Steam Gage & Valve Co., [1892]. 23.3 cm. x 14.8 cm.,illus. Advertising blow-off valves for locomotives; with Price. Pat. Feb. 16, 1892.

3. H.D. Medrick, Improved Water Cock. Port Jervis, N.Y.: H.D. Medrick, n.d. 24.4 cm. x 37.2 cm., illus. Advertising sheet for a water cock with foot cock, strainer cleaner and frost cock combined. Annotated Patent "January 10 1888". Manufactured by McNab & Harlin M'f'g. Co., 56 John St. N.Y.

4. Hathorn, Davis, Campbell & Davey, Engineers, Leeds & London, Sun Foundry, Leeds, [Eng.]: Hathorn, Davis, Campbell & Davy, June 1874. 34 cm. x 42.5 cm. "List of engines at work or in the course of construction." Attached: 1 p. Correspondence.

5. Hartley & Sugden, Beckett's Patent Portable Self-Adjusting Valve. Atlas Works, Halifax, [U.K.]: Hartley & Sugen, n.d. 30.5 cm. x 24.5 cm., illus. Price list included. Attached to Vol. 106, Broadside 6.

6. Hartley & Sugden, Atlas and Premier Works, Halifax, Improved Screw Slide Valve. Improved Throttle Valves. Halifax, [U.K.]: Hartley & Sugden, n.d. 30 cm. x 23.5 cm., illus. Prices given.

VOLUME: 107

1. Hathorn, Davey & Co., The Davey Motor, or Safety Engine. Patented. Engine and Three-Throw Pumps. Leeds, [England]: Hathorn, Davey & Co., n.d. Printed by: McCorquodale & Co., Ltd., Leeds. 21.8 cm. x 28.2 cm., illus., colour. Attached to Broadside 2.

(Vol. 107 cont'd)

2. Hathorn, Davey & Co., The Davey Motor, or Safety Engine. Patened. Engine and Deep Well Pumps. Leeds, [England]: Hathorn, Davey & Co., n.d. Printed by McCorquodale & Co., Ltd., Leeds. 43.5 cm. x 28 cm., illus., annotated, colour. attached to Broadside 1.

VOLUME: 108

1. Hathorn, Davis, Campbell & Davey, Engineers, Sun Foundary, Leeds, The Differential Expansive Pumping Engine. Davey's Patent. Leeds, England: Hathorn, Davis, Campbell & Davey, n.d. Printed by McCorquodale Co., Leeds. n.d. 62.6 cm. x 41 cm., illus. Scale Indicated. Instrates: "The Compound Differential Expansive Pumping Engine." "Single Cylinder Differential Expansive Pumping Engine and Pumps in Duplicate." "Single Cylinder Condensing Differential Expansive Pumping Engine."

2. Ommanney & Tatham, Engineers, Direct-Acting Tappet and Cataract Pumping Engine. Salford, Manchester: Ommanney & Tatham, n.d. Printed by G. Falkner & Son, Manchester. 35.5 cm. x 24.8 cm., illus. Short description of pump's action.

VOLUME: 109

1. American Railway Master Mechanics' Association, Purfication or Softening of Feed Water. St. Paul, Minn.: American Railway Master Mechanics' Association, 5 April, 1890. 21. 5 cm. x 14 cm. Questionnarie concerning above topic sent to members of the American Railway Master Mechanics' Association. Committee composed of W.T. Small, Harvey Middleton, A.W. Quackenbush, J.W. Hill.

VOLUME: 113

1. Quinn Flanger Co., "Quinn's Patent" Ice, Snow, and Sand Flanger, with Lateral Motion End Stop. Mankato, Minn.: Quinn Flanger Co., [1887]. 21.8 cm. x 13.8 cm. Advertisement announcing the planned appearance of a flanger at the Master Mechanics' Convention at St. Paul, Minn., June 21st 1887.

VOLUME: 115

1. The Tyler and Ellis Hydraulic Forging Co., Ltd., The Tyler and Ellis Improved Patent Railway Crossings. 20 New Bridge St., London: The Tyler and Ellis Hydraulic Forging Co., Ltd., n.d. 43.3 cm. x 27.9 cm., illus. Text lists advantages of system.

VOLUME: 116

1. American Railway Master Mechanics' Association, Driver-Brakers, Etc. New York: American Railway Master Mechanics Association, [1889]. 27.9 cm. x 21.6 cm., Annotated. questionnaire concerning brakes on trains. Committee composed of: Charles blackwell, H.D. Gordon, W.H. Thomas.

2. The National Hollow Brake Beam Company, Chicago, Ill., and St. Louis, Cheapest, Lightest and Most Durable Brake Beam Made. Chicago, Ill.: The National Hollow Brake Beam Company. n.d. 27.9 cm. x 21.6 cm., illus. Text describes general construction information.

3. Ladd, Warren, Assignee, Collins's Patent Brake Shoe. New Bedford, Mass.: Warren Ladd, March 20, 1866. 23.6 cm. x 18.5 cm., illus. Advertisement explaining advantages and offer to sell patent rights.

(Vol. 116 cont'd)

4. American Brake Company, St. Louis, Outside Equalized Driver Brake for Consolidation or Mogul Engines. St. Louis: American Brake Co., n.d. 26.7 cm. x 40.7 cm., illus. Scale indicated. Text explaining operation accompanied by drawings of parts.

VOLUME: 117

1. The American Brake Co., St. Louis, Mo., Advertising circular composed primarily of report of S.B. Opdyke Jr., Engineer M. W., New Haven & Northampton Company, on the effectiveness of the Automatic Freight Car Brake manufactured by The American Brake Co., St. Louis: 1883. 27.2 cm. x 21.3 cm.

2. The Vacuum Brake Co., Limited, [Advertising circular composed of] Extracts from the Board of Trade Returns on Continuous Brakes... 30th June 1902. 32, Queen Victoria St., London: The Vacuum Brake Co. Ltd., 1902. Detailed list comparing Westinghouse Automatic Brakes and Vacuum Automatic Brakes on the basis of faults per mile. Shows superiority of the latter system.

VOLUME: 118

1. E. Miller, Patentee, Shop Plans of Miller's Couplers, Buffers and Improved Platforms for Railway Coaches, Designed for a Six Foot Gauge of Road. P.O. Box 2996, New York City: E. Miller, 1871, Illus.
   a. Various views of platform, coupler & buffer. 51 cm. x 65.5 cm.
   b. First Tracing Miller Platform. 62 cm. x 88.3 cm. Scale 3 inches = 1 Foot.
   c. Second Tracing Miller Platform. Miller's Coupler Buffer & Platform. 80 cm. x 112 cm. Scale 3 inches = 1 Foot.

(Vol. 118 cont'd)

d. Third Tracing, Miller Platform, Coupler & Buffer. 65.3 cm. x 94 cm. Scale 1 1/2 inches = 1 Foot.

e. Fourth Tracing Miller Platform. 89.8 cm x 64.8 cm. Scale 3 in. = 1 ft.

f. Fifth Tracing Miller Platform Coupled to an Engine Tender. 66 cm x 112.2 cm. Scale 1 1/2 in. = 1 ft.

Tracings are used with instructions in Vol. 118, Cat. 39, to construct the Miller Platform.

2. Western Railway Equipment Company, The Acme Locomotive Tender Draw-Bar Pocket. Masonic Building, St. Louis, Mo.: Western Railway Equipment Co., n.d. 27.2 cm. x 20.3 cm., illus.

3. American Railway Master Mechanics' Association, The Present Status of the Car Coupler Question. 140 Nassau St., New York: American Railway Master Mechanics' Association, February 17, 1891. 21.6 cm. x 14 cm. Questionnaire sent to members. Committee composed of: John Hickey, G.W. Rhodes, Sanford Keeler, P.H. Blackall, M.N. Forney.

4. J.H. Nutting, Inventor, To Superintendents and Master Mechanics of Railroads. Brightwood, Springfield, Mass.: J.H. Nutting, March 10, 1884. 27.8 cm. x 21.5 cm., illus. Advertisement in form of a letter giving advantages of new car couplings.

5. E. & R.E. Briesenick, Briesenick's Nonpareil Automatic Car Coupler. Brunswick, Ga.: E. & R.E. Briesenick. n.d. 36 cm. x 20.5 cm., illus.

6. Aikin & Drummond, Sole Agents, McGuire's Patent Pin & Link Carrying Device for Railway Cars. Louisville, Ky.: Aikin & Drummond, n.d. 24.5 cm. x 20.3 cm., illus. Advertisement for device for carrying extra coupling pins and links.

7. J.H. Burrel, The Burrell Coupling. 4948 Germantown Avenue, Philadelphia, Pa.: J.H. Burrell, n.d. 20 cm. x 13.2 cm., illus. Text gives description of operation.

8. Smillie Automatic Car Coupler Co., Smillie Automatic Car Coupler. 52 Broadway, New Yor City: Smillie Automatic Car Coupler Co., n.d. 30.5 cm. x 24 cm., illus. Detailed drawing plus description of operation. Rubber stamp annotation.

(Vol. 118 cont'd)

9. Reuben Woods, The R.E. Woods Car-Coupling. Montgomery, Minn.: Reuben Woods, n.d. 27.5 cm. x 21.3 cm., illus. Test lists advantages and gives extract from specifications in patent of February 22, 1887. Lists names and addresses of other agents.

10. Huselton Automatic Car Coupler Co., Huselton Automatic Car Coupler Co. Rm. No. 11, Bissell Block, Pittsburgh, Pa.: Husleton Automatic Car Coupler Co., n.d. 33 cm. x 20.2 cm., illus. Text lists advantages of their coupler. Testimonials written in 1887 are given.

11. Boston Automatic Car Coupler Company, The Boston Automatic Car Coupler. 48 Congress St., Boston: Boston Automatic Car Coupler Co., n.d. 27.6 cm. x 21.3 cm., illus.

12. Self-Adjusting Car-Coupler Company, Vedder's Self-Adapting and Self-Extracting Car Coupling. Gloversville, N.Y.: L.P. Johnson, n.d. 31.6 cm. x 21.2 cm., illus. Text describes operation. Testimonials, 1871.

13. American Railway Master Mechanics' Association, Automatic Car Coupling. 140 Nassau St., N.Y.: American Railway Master Mechanics' Assoc., May 5, 1890. 22.9 cm. x 15.2 cm. Questionnaire sent to members. Committee member listed: John Hickey.

14. Automatic Interchangeable Car Coupling Co., San Francisco, Cal., The California Coupler. 116 So. Clinton St., Chicago: F.L. Wells, General Agent, April 1897. 21.4 cm. x 13.7 cm., illus., Colour. Prices of parts given.

15. Chas. F. Long, General Agent, The "Hoit Double Spring Draw-Bar." No. 429 Walnut St., Philadelphia, Pa.: Chas F. Long, n.d. 27.6 cm. x 21 cm., illus. Colour. For Use in railroad car construction.

16. Harry Rogers, General Agent, A. Porter's Rail-Road Car-Coupling. n.p.: Harry Rogers, n.d. Printed by A.M. Photo-Lithographic Co., N.Y. 71 cm. x 55.9 cm., illus. Scale: full size. Horizontal and sections show. Patented 30 May 1871.

(Vol. 118 cont'd)

17. J.S. McMurray, Views of Cars, Showing J.S. McMurray's Patent Selfacting Car Copler. Toronto: J.S. Murray, [1868]. Printed by W.C. Chewett & Co., Lith., Toronto. 51.9 cm. x 80.3 cm., illus. Scale: 1 inch to 1 foot. Detailed drawings and textual description of operation.

18. Charles Cammell & Co., Ltd., Cyclops Steel & Iron Works, Allan's Patent Compound Draw Springs & Boxes. No. 50A. Sheffield, England: Charles Cammell & Co., Ltd., n.d. 43 cm. x 64 cm., illus. Colour.

VOLUME: 119

1. Perkins, Livingston & Post, Manufacturer of Passenger Car Lamps, Car Centre Lamp. Car Side Lamp. 119, 121, & 123 W. Front St., Cincinnati, Ohio: Perkins, Livingston & Post, n.d. Printed by Strobridge & Co., Lith., Cin. 80.5 cm. x 60.4 cm., illus. Colour. Illustration and description of railway candle lamps made of brass with white crystal glass.

2. Williams & Page, Kerosene or Coal-Oil Car Lamps. Boston, Mass.: Williams & Page, n.d. Printed by J.H. Bufford's, Lith. Boston. 29.7 cm. x 45.6 cm., illus. Colour. Scale indicated. Illustrates both center and side lamps.

VOLUME: 120

1. The Railroad Gazette, Code of Rules Governing the Condition of, and Repairs to, Freight Cars for the Interchange of Traffic, Adopted by the Master Car-Builders' Association at Minneapolis, Minn., June 1887. 73 Broadway, New York: The Railroad Gazette, Sept. 1887. 28 cm. x 21.5 cm. Advertisement for the sale of a four-page table computed by W.W. Barrow for the calculation of depreciated values of railroad cars per above code of rules.

(Vol. 120 cont'd)

2. Railroad Velocipede & Car Co., Kalamazoo-Railroad Velccipede & Car Co., Kalamazoo, Mich.: Railroad Velocipede & Car Co., n.d. Printed by Ihbing Bros. & Everard, Kalamazoo. 76.7 cm. x 111.5 cm., Illus. Colour. Numerous illustrations of products including: steel velocipedes, inspection cars, sugar wagons, hand cars, steam inspection cars, and gasoline motor inspection cars. Some vehicles made with 1895 Patented Malleable Centre Car, Wheels.

3. Pacific Lock and Seal Company, L.A. Brown V & TH 46. 913 Pine St., St. Louis, Mo.: Pacific Lock and Seal Company, n.d. 30.5 cm. x 24 cm., illus. Advertisement for a railroad car seal with link and extension hook, invented by Mr. L.A. Brown.

VOLUME: 121

1. St. Louis Car Roofing Co., Advertising circular describing the composition and advantages of the "Anchor Iron Car Roof." 216 Pine St., St. Louis, Mo.: St. Louis Car Roofing Co., n.d. 27.7 cm. x 21.2 cm. Attached to Vol. 121, Broadside 2.

2. St. Louis Car Roofing Co., Improved Anchor Iron Car Roof. Pine and Third, St. Louis, Mo.: St. Louis Car Roofing Co., n.d. 25.2 cm. x 35.3 cm., illus., Colour. Illustration shows detailed construction of roof works at Carondelet, South St. Louis and Sulphur, Texas. Attached to Vol. 121, Broadside 1.

3. Winslow Car Roofing Co., Proprietors of A.P. Winslow's Patent Iron Car Roof. No. 211. Superior St., Cleveland, Ohio: Winslow Car Roofing Co., n.d. 26.5 cm. x 20 cm., illus. Illustration shows detailed construction of roof. List of railroad companies and car builders given for reference.

4. Harrison Loring, Manufacturer, City Point Works, Susemihl & Jewett's Freight Car Truck-Loring Bolster. Boston, Mass.: Harrison Loring, [1888]. 51.5 cm. x 21.3 cm., illus., annotated. Various views of construction. Text gives details of construction of truck and bolster.

(Vol. 121 cont'd)

5. E.J. Brooks & Co., General Railway Supplies, Brooks' Patent standard Car Door Fastener for Freight Cars. 10 Cortland St., New York: E.J. Brooks & Co. n.d. 26.7 cm. x 20.4 cm., illus. Scale: half size. Illustrates and describes Brooks' Standard No. 1 and No. 2 car door fasteners. Patent date April 18, 1882.

6. Lane Brothers, Lane's Patent Car Door Hanger. Anti-Friction. Made of Steel. Poughkeepsie, N.Y.: Lane Brothers, [1887]. 21.8 cm. x 14 cm., illus. Annotated price. Text describes advantages, operation and composition.

7. W.G. Creamer & Son, Creamer's Patent Car Seat. 19 Platt St., New York: W.G. Creamer & Son, n.d. 39.8 cm. x 34.1 cm., illus. Illustration of cast iron seat backs. Related to Vol. 121, Broadside 8.

8. [W.G. Creamer & Son], Diagram of iron casting seat parts including back sections, seat locks, hooks, and key. [19 Platt St., New York: W.G. Creamer & Son], n.d. 49.2 cm. x 41.9 cm., illus., annotated. Printed on both sides. Patent dates shown 1867 & 1868. Related to Vol. 121, Broadside 7.

VOLUME: 122

1. Gold Car Heating Company, New York and Chicago, "The Gold Universal Straight Port Steam Coupler." Frankfort & Cliff Sts., New York: Gold Car Heating Company, 1896. 52.5 cm. x 94.5 cm., illus. Also illustrates and describes "Gold's Improved Gravity Relief Trap." Supplement to the "Railroad Gazette," Nov. 13, 1896.

VOLUME: 124

1. Edmund Redmond, A Dust Abator for Railroads. Rochester, N.Y.: Edmund Redmond, n.d. 28 cm. x 21.5 cm., illus. Advertisement to sell licenses to manufacture the above device which is attached to wheels to reduce the amount of dust sucked up from the road bed. Patented, September 1888.

VOLUME: 125

1. [Eaton], Eaton's - Patent 12 Wheeled Freight Car. n.p.: [Eaton], n.d. 47.6 cm. x 96.4 cm., illus. Scale 1" = 1'. Detailed drawing of a freight car designed to carry flour barrels or grain.

2. Great Western Railway, Special Trucks for Carrying Engines, Boilers, etc. Swindon, [England]: Great Western Railway, April, 1878. 47.9 cm. x 31.6 cm., illus. Diagrams of railway trucks with dimensions and load carrying capacities.

3. [Eassie], Eassie's Improved Action Railway Truck. Details. n.p.: [Eassie], n.d. Printed by W. Butterton, del. et lith. 68 cm. x 96.5 cm., illus. Scale 3" = 1'. Annotated: "of draw gear." Illustrated draw bar and bolster in various views.

VOLUME: 126

1. Great Western Railway, Continuous Automatic Vacuum Brake. n.p.: Great Western Railway, Nov., 1881, Rev. February 1883. 32.7 cm. x 31.8 cm., illus. Text gives detailed information under "Description" and "Instructions for Working."

2. J.Y. Smith, Patentee, Details of Vacuum Brake. n.p.: J.Y Smith, n.d. Printed by William Mann, Lith., Philadelphia. 54.6 cm. x 61.3 cm., illus. Parts listed.

3. J.Y. Smith, Patentee, Vacuum Brake Apparatus as Applied to the Driving & Tender Wheels of Locomotives. n.p.: J.Y. Smith, n.d. Printed by Wm. Mann, Lith., Philadelphia. 50 cm. x 97.1 cm., illus. No text. Article from ["National Car Builder" Sept. 15-76] describing the system attached.

4. J.Y. Smith, Patentee, Vacuum Brake Apparatus Showing the Attachments to Passenger Cars. n.p.: J.Y. Smith, n.d. Printed by William Mann, Lith., Philadelphia. 48.2 cm. x 96.3 cm., illus. No text.

VOLUME: 128

1. Van R. Richmond, State Engineer & Surveyor, General Plan of Culverts. n.p.: Van R. Richmond, C.E., n.d. 50.8 cm. x 65.2 cm., illus. Part of sheet missing. Detailed designs of various constructions including: "Plan and Details of Discharge Pipe and Well to Erieville Reservoir" and "Enlargement of the Erie Canal... 1859".

2. Industrial Works, 1882 - Improved Iron Steam Shovel and Derrck. Bay City, Mich.: Industrial Works, [1882]. 28.7 cm. x 50.1 cm., illus. Scale Indicated. No text. Two copies.

3. Sherburne & Co., Agents, Hydraulic "T" Rail Bender. Sheet 55. 53 Oliver St., Boston: Sherburne & Co., n.d. 12.6 cm. x 20.4 cm., illus. Text describes operation of machine. Prices given.

4. Merrill-Stevens Manufacturing Co., Manufacturers of Merrill's Patent Steel Stock Guard for Railroads. Biles, Mich.: Merrill-Stevens Manufacturing Co., n.d. 27.7 cm. x 19.6 cm., illus. Patents: Oct. 22 & 15, 1889; July 1, 1890. Text describes construction, advantages and "Directions for Placing in Track."

5. Priestman Brothers, Ltd., London and Hull, Contractors for The Patent Dredger, Excavator & Elevator. 73A Queen Victoria St., London: Priestman Brothers, Ltd., n.d. Printed by Riddle & Couchman, London. 50.7 cm. x 62.2 cm., illus., colour. Text in English, French and German. Lists areas where machines are working, where orders received from, uses, and advantages, medals won from 1878 to 1884.

VOLUME: 129

1. The Goheen Mfg. Co., The Destruction Work of Electrolysis on Iron Pipes Practically Demonstrated. Canton, Ohio: The Goheen Mfg. Co., n.d. 8.9 cm. x 13.3 cm. Advertising card referring to a paper on electrolysis tests presented at a conference to sell "Carbonizing Coating", a paint made by the company.

(Vol. 129 cont'd)

2. [Ball], Ball's Improved Method of Tapping Wrought Iron, Cement-Lined or Other Water Pipes. n.p.: [Ball], n.d. 22.3 cm. x 14.4 cm., illus. Diagram of cross section and front view. Price list given.

3. Reed Mfg. Co., Reed Pipe Wrenches Are Guaranteed. Erie, Pa.: Reed Mfg. Co., [1898]. 13.2 cm. x 23.4 cm., illus. Advertisement, no text.

4. J. Tylor & Sons, J. Tylor & Sons' Patent Elastic Clip for Making Joints to Cast Iron Mains. 2, Newgate St., London: J. Tylor & Sons, n.d. 27.1 cm. x 20.4 cm., illus. Uses of clip and prices of various sizes given.

5. Metallic Flexible Tubing Company, Interwoven Metallic Flexible Tubing. 254 S. Second St., Philadelphia: Metallic Flexible Tubing Co., n.d. 27.8 cm. x 21.7 cm., illus. Advertisement in the form of a letter telling purchasers the advantages of the tubing.

VOLUME: 130

1. J.B Hoyt & Co., Tan Burning Furnace. n.p.: J.B. Hoyt & Co., n.d. Printed by: Endicott & Co., New York. 60.9 cm. x 96.4 cm., illus., Colour. Scale indicated. Illustrates various views of installed furnace. Attached sheet gives textual explanation of drawings.

2. F. Jordan, Railway Supplies, Sole Agent, The Big Sandy Sand Dryer. 200 Broadway, New York: F. Jordan, [1887]. 28 cm. x 21.8 cm., illus. Text gives improvements and testimonial.

3. [Charles Carr, Patentee and Manufacturer], The Following Firms Among Others Have Been Supplied With Carr's Patent Furnaces. [Grove Lane, Smethwick, Birmingham: Charles Carr], n.d. 1918 cm. x 35.2 cm. Lists name, address, and description of number and type of furnace. Attached to Vol. 130, Broadside 4.

(Vol. 130 cont'd)

4. Charles Carr, Patentee and Sole Manufacturer, Woodlands Bell Foundry, Carr's Perfect. Combustion Crucible Melting Furnace. Grove Lane, Smethwick, Birmingham: CHarles Carr, n.d. 48.2 cm. x 35.3 cm., illus. Lists advantages of furnace, testimonials from 1882 & 1883, plus firms that have Carr's patent furnaces. Attached to Vol. 130, Broadside 3.

5. C. Carr, Bell Foundry, Smethwick, Carr's Patent Crucible Casting Furnace. 66 Broad St., Birmingham: C. Carr, 1885. Printed by Fred K. Grew, Lith., Birmingham. 50.7 cm. x 37.8 cm., illus. From International Inventions Exhibition, London, 1885. Representative: E. Gray & Son, Clerkenwell Green. Gives Testimonials and price list. Attached to Vol. 130, Broadside 6.

6. C. Carr, Bell Foundry, Smethwick, Carr's Patent Crucible Casting Furnace. 66 Broad St., Birmingham: C. Carr, 1885. Printed by Fred K. Grew, Birmingham. 31.8 cm. x 24.5 cm., illus. Leaflet from International Inventions Exhibition, London, 1885. Representative: E. Gruy & Son, Clerkenwell Green. Gives illustrations of different sizes with prices. Testimonials on reverse side. Attached to Vol. 130, Broad 5.

7. Bolling & Lowe, Engineers and Merchants, Iron and Steel. Machine Tools. Railway & Tramway Material. Sheet c. 2. 2, Laurence Poutney Hill, London: Bolling & Lowe., n.d. 50.7 cm. x 76.2 cm., illus. Colour. Text in English and French. Before 1879, Wm. Bird & Co. Illustrations primarily of rails, tip wagons, light locomotive & dock & railway sheds.

8. Bolling & Lowe, Engineers and Contractors, Iron & Steel Sleepers, Locomotives & Rolling Stock. 2, Laurence Pountey Hill, London: Bolling & Lowe, n.d. 50.8 cm. x 80.5 cm., illus. Cross-sections of various rails giving weights per yard. Formerly Wm. Bird & Co.

   b. Sheet M - in English and French, same illustrations.

9. Bolling & Lowe, Sections of New and Defective Iron & Steel Rails in Stock. 2, Laurence Pountney Hill, London: Bolling & Lowe, April, 1885. Printed by Samuel T. Temple Lith., London. 52.8 cm. x 74.8 cm., illus. Cross-sections of steel, iron, & iron & steel rails giving weights.

(Vol. 130 cont'd)

10. C.P. Sandberg, C.P. Sandberg's Standard Sections for Steel and Superior Iron Rails. 19, Great George St., Westminister [English]: C.P. Sandberg, 28 January 1870. 56.5 cm. x 80.8 cm., illus. Scale: full size. Cross-sections of rails with detailed dimensions and weights shown. Also illustration of "Suspendend fishjoint for rails 65 lbs. per yard."

VOLUME: 133

1. Ibbotson Brothers & Co., Globe Iron & Steel Works, Semaphore, Distant Railway Signal, and Carriage Lamps. Sheet No. 17. Sheffield: Ibbotson Bros. & Co., n.d. 30.8 cm. x 49.2 cm., illus. Numerous illustrations of lamps.

2. [Railroad Car Lamps] with "Acme", "Raymond," or "Belgian" Burners. n.p.: n.d. 12 cm. x 32.5 cm., illus., colour. Three car lamp illustrations.

3. Brady's Malleable Iron Railroad Signal Lanterns. n.p.: n.d. 7.7 cm. x 14 cm., illus., cColour. Three different colured lanterns shown with prices.

4. Kelly Lamp Company, Sole Manufacturer, Kelly's Patent Colored Signal for Head-Lights. Rochester, N.Y.: Kelly Lamp Co., n.d. 28.6 cm. x 21.4 cm., illus., Colour. Patented August 14, 1883.

5. [Wm. Porter's & Sons], Numerous illustrations of primarily railroad tail lamps, switch lamps, car lamps, station lamps, hand lanterns, locomotive gauge lamps, chimneys and burners. [271 Pearl St., New York: Wm. Porter's Sons], n.d. 81.9 cm. x 64.8 cm., illus., colour, annotated.

6. The Adams & Westlake Company, New York and Chicago, ... "Adams" Steel Guard Lantern.... 115 Broadway, N.Y.: The Adams & Westlake Co., n.d. 24 cm. x 15.8 cm., illus. Illustrates new style lanterns made with one piece.

7. [Vantine], Vantine's Assorted Lanterns. n.p.: [Vantine], n.d. 34.5 cm. x 49 cm., illus., Colour. Painted drawings of numerous paper Chinese lanterns.

VOLUME: 136

1. Theodore Thomas, The Thomas Patent Steel Tired Car Wheel. P.O. Box 129, Jersey City, N.J.: Theodore Thomas, n.d. 26.5 cm. x 20.1 cm., illus. Text describes advantages and method of producing this car wheel. Manufactured by the Jersey City Wheel Foundry and Machine Works.

2. [W. Bridges Adam], W. Bridges Adams' Patent Radial Axle Boxes, Spring Tires and Sliding Tires n.p.: [W. Bridges Adam], n.d. 43.6 cm. x 27.8 cm., illus., annotated. Captioned drawings.

3. Taite & Carlton, Sole Licencees, Carlton & Stroudley's Patent Tyre Fastening, for Engines, Carriages & Wagons. 63 Queen Victoria St., London: Messrs. Taite & Carlton, n.d. 35.3 cm. x 23.4 cm., illus. Sketch and description of new method of attaching the tyre to the wheel.

VOLUME: 137

1. W.J. Turkington, Turkington's Patent Portable Fountain, Bath Brush & Shower Bath. Box 206, Aurora, Ontario: W.J. Turkington, n.d. 28 cm. x 21.6 cm., illus. Lists advantages and directions for use.

VOLUME: 139

1. Leeds Wheel & Axle Co., William H. Kitson's Patent, Leeds. Leeds, [Eng.]: Leeds Wheel & Axle Co., n.d. 38.6 cm. x 45 cm., illus. Illustrations showing a wheel, section and elevation.

2. Taite & Carlton, Agents, James Cleminson's Patent Composite Wheel. 63, Queen Victoria St., [London]: Taite & Carlton, n.d. 36.9 cm. x 24.5 cm., illus. Lists merits of new type of wheel.

(Vol. 139 cont'd)

3. William Halpin, Manufacturer, Tire-Expanding with The Wells Light and Patented Tire-Covers. 44 & 46 Washington St., N.Y.: William Halpin, n.d. 27.3 cm. x 17.5 cm., illus. Photo shows the wells light arrangement for tire-expanding removing) in operation, as published in various periodicals. manufacturer formerly Keegan & Halpin.

VOLUME: 140

1. California State Mining Bureau, Chemical Analyses of California Petroleum. Bulletin No. 31. Ferry Bldg., San Francisco: California State Mining Bureau, n.d. 70.8 cm. x 92.8 cm. Detailed chart of chemical analysis of the product of sixty oil wells in California including specific gravity, viscocity, flash point, calorific value and distillation.

VOLUME: 141

1. Vacuum Oil Co., Vacuum Oil Co.'s Locomotive Lubricator, Patent No. 1,156. The Albany, Liverpool: Vacuum Oil Co., n.d. 24.6 cm. x 16.7 cm., illus., Colour. Diagram showing the operation of the lubricator. Text gives detailed instructions.

2. Norfolk and Western Railroad Company, Motive Power Dept., Specification 20A. Passenger Engine Oil. Roanoke, Va.: Office of Supt. Motive Power, Norfolk and Western Railroad Company, April 18,1893. 28 cm. x 215 cm. Lists causes for rejection of oil as well as method of determining flashing and burning points.

3. T. McAvity & Sons, "The McAvity" Sight Feed Lubricator. St. John, N.B.: T. McAvity & Sons, [May/97]. 27.7 cm. x 21.4 cm., illus., annotated. Directions for operation given. Price $5.00.

(Vol. 141 cont'd)

4. Pedrick & Ayer, Patent Oil Cup. 1025 Hamilton St., Philadelphia, Pa.: Pedrick & Ayer, n.d. 27.7 cm. x 21.4 cm., illus. Illustrates and describes the "Rod Oiler" and the "Guide Oiler" which are used in railway engines.

5. John Smith & Co., Brass Founders and Finishers, Derby and Burton-on-Trent, The "Ottewell" Sight-Feed Lubricator. Traffic St., Derby, England: John Smith & Co., n.d. Printed by Bemrose & Sons Ltd., Derby. 28.3 cm. x 21.7 cm., illus., annotated. Lists advantages of device.

6. H.F. Rohbock, Patent Lubricating Sack for Railroad Car Boxes. 33d and Small Sts., Pittsburgh Pa.: H.F. Rohbock, n.d. 26.7 cm. x 20.3 cm., illus. Describes the operation of the sack. Gives price.

7. Michigan Lubricator Co., Michigan Lubricator Co.'s Improved No. 3 (Triple) Locomotive Lubricator. 661-671 Beaubien St., Detorit, Mich.: Michigan Lubricator Co., n.d. 27.7 cm. x 32.5 cm., illus. Detailed drawings of lubricator.

VOLUME: 143

1. J.W. Chowen, Proprietor, Stratford Steam Laundry. Wellington St., [Stratford]: Stratford Steam Laundry, Dec. 28, 1903. 22.4 cm. x 10.3 cm., Annotated. Bill of lading listing all the prices for various kinds of laundry done; billed to H.T. Burgess.

2. Joseph Cliff & Son, London List-Prices of Glazed Stoneware Pipes, & C. Nos. 2 & 4, Wharves, King's Cross, London: Joseph Cliff & Son, n.d. 12.5 cm. x 21.2 cm., illus.

3. John Wiley & Sons, Works on Sewage and Sewerage Published and for Sale by .... 43 & 45 E. Nineteenth St., N.Y.: John Wiley & Sons, 1910. 13.9 cm. x 8.1 cm. List of books with prices.

(Vol. 143 cont'd)

4. John Dodd, Patentee, Dodd's Patent Ventilated Water Closet. Liverpool, [Eng.]: John Dodd, [1876]. 23.9 cm., illus., Annotated. Extract from Diseases of Modern Life by Dr. Richardson describing dangers of sewer emanations to health. Dodd's water closet purports to be the only one that provides escape from the gases.

VOLUME: 148

1. The Church Monthly, The Church Almanack. 30 & 31 New Bridge St., Ludgate Circus, E.C., [Eng.]: "The Church Monthly," 1890. Printed by Hazell, Watson & Viney, 5 & 6, Kirby St., Hatton Garden, E.C. 79.9 cm. x 57.5 cm., illus., Colour. Drawings of English cathedrals and bishops. A scripture reference is listed for each day.

VOLUME: 152

1. American Piano Harp Co., The Reflectoscope. 400 Queen W., Toronto, Ont.: America Piano Harp Co., n.d. 27.8 cm. x 21.8 cm., illus. An Advertisement for a lantern-slide run by gas or electricity that can project any sort of picture, photo, postcard or clipping on to a 6 x 10 ft. area.

2. Ives Process Co., The Parallax Stereogram. New York: Ives Process Co., n.d., 27.1 cm. x 18.7 cm., illus. Describes how the system works.

VOLUME: 159

1. The Railway and Engineering Review, Locomotive Memorandum ... for ... The Railway and Engineering Review. 1305 Manhatten Gldg., Chicago: The Railway and Engineering Review, [1900]. 38.4 cm. x 20.8 cm., Annotated. Blank form for detailed listing of mechanical specifications for locomotives and tenders.

VOLUME: 161

1. S.A. Alexander, Alexander's Ready Reference for Locomotive Engineers and Firemen. York, Pa.: S.A. Alexander, n.d. 33.5 cm. x 13.3 cm., illus. Advertisement for above book.

VOLUME: 162

1. Messrs. Aveling and Porter, Cost of Conveyance of Goods by Traction Engines. n.p.: "The Engineer," [1866]. Printed by Sweet & Sons, Strood. 33.6 cm. x 21 cm. Article reprinted from "The Engineer," March 9, [1866]. Describes an experiment made by Mr. Aveling to determine actual cost of conveyance on a 26 mile stretch of road in England.

2. American Railway Master Mechanics' Assoc., Cylinder Capacity and Adhesive Weight of Various Modern Locomotives. U.S.A.: American Railway Master Mechanics' Association, n.d. 36 cm. x 18 c.m. Lists capacity and weight of passenger engines, freight engines, and switching engines.

3. [Description of a] Dynagraph. [A instrument designed to measure and record upon paper the resistances due to the movement of trains]. Accompanied by a sheet of diagrams which are examples of "Force Lines" and "Chronograph" Lines" as measured by the Dynagraph.

    a. Titled: Railway Resistances 37 cm. x 28.5 cm.

    b. 44.5 cm. x 59.2 cm. Sheets attached.

VOLUME: 163

1. Railroad Gazette, Record of the Coal Consumption of Locomotives Run by George H. Baker, on the Chicago and St. Louis Divisions of the Wabash Railroad, Compared with Same of all Other Engines of Same Dimensions, in Same Service, on Same Division. n.p.: Railroad Gazette, Aug. 2, 1889. 27.5 cm. x 21.4 cm.

(Vol. 163 cont'd)

2. [M.N. Forney], Statement. Relative to Mileage, Speed and Fuel Consumption of New York Central Railroad Engines Number 999, Empire State 888 and the London and North Western Compound Engines "Greater Britain." n.p.: [June/94]. 18.8 cm. x 19.5 cm., annotated. [2 copies].

3. J. Davis Barnett & F.L. Wanklyn, Traction Increasers in Connection With Overcylindered Engines. n.p.: ["The Master Mechanic"], [June 1888]. 53 cm. x 16.4 cm., annotated. Offprint from "The Master Mechaanic", June, [1888].

4. James Sedgley, General Master Mechnic, Form 1924. Performance of Locomotive Engines for the Month of June, 1882. Cleveland, O.: The Lake Shore & Mich. South. R'Y Co., Locomotive Dept., July 1882. 47.4 cm. x 34.8 cm., illus. Chart comparing locomotives in several divisions as to cost and number of miles run.

VOLUME: 164

1. Automatic Track Sanding Co., The Sherburne Pneumatic Track Sanders. 53 Oliver St., Boston, Mass.: Automatic Track Sanding Co., 1896. 8.9 cm. x 13.9 cm., illus. Advertising post-card.

VOLUME: 165

1. Strong Locomotive Engineering Co., New York & Philadelphia, Strong Express Locomotive. 88 Liberty St., New York: Strong Locomotive Engineering Co., n.d. 35.5 cm. x 52.5 cm., illus.

    a. Artist's sketch of locomotive.

    b. Diagram of express locomotive. Class 19, A^2, 20".

    c. Diagram of locomotive class 12-B^2-20".

    d. Diagrams of sections of locomotive.

    Identical specifications for locomotive given at the bottom of each sheet.

VOLUME: 166

1. W. Bridges Adams, W. Bridges Adams' Patent Radial System of Locomotive Engines Carriages and Wagons for Straight Lines and Curves. n.p.: n.d. illus.

   a. 43.2 cm. x 28 cm. Captioned drawings.

   b. 73.5 cm. x 50 cm. Various uncaptioned drawings.

VOLUME: 168

1. American Railway Master Mechanics' Assoc., Steps and Handholds. 256 Broadway, N.Y.: American Railway Master Mechanics' Assoc., Dec. 5, 1895. 22.9 cm. x 15.2 cm. Questionnaire sent out to members on above subject. Committee composed of: John Medway, H. Bartlett, J.T Gordon, F.M. Twombly and G.H. Baker.

2. J.D. Lynde, Lynde's Patent Locomotive Safety-Valve. 405 N. Eighth St., Philadelphia, Pa.: J.D. Lynde. 26.6 cm. x 20.3 cm., illus. Detailed diagram with explanation. Price given.

3. Wm. Naylor, 2 Inch Safety Valve W. Naylor's Patent. 3 New Broad St., London: Wm. Naylor, n.d. Printed by: Waterlow & Sons, Lith., London. 66cm. x 64.5 cm., illus. Scale: full size. Detailed diagrams showing end elevation and sectional elevation. Rubber stamp: "The Yorkshire Engine Co. Limited."

4. Alex. Turnbull & Co., Engineers and Valve Makers, Glasgow and London, Turnbull's Patent Safety Valves. Glasgow: Alex Turnbull & Co., n.d. Printed by Aird & Coghill, Glasgow. 78 cm. x 57.4 cm., illus. Illustrations of numerous valves. Won awards in exhibitions in 1886 & 1887. Accompanies pamphlet Vol. 168, Cat. 20.

(Vol. 168 cont'd)

5. Wilson, John Co., London, 2 Items:

   a. Improvements in Safety-Valve Apparatus. J.C. Wilson's Patent Locked-Up-Klotz-Duplex Spring Safety-Valve Recommended for Locomotive Boilers. London: J.C. Wilson, 1881. Waterlow Bros. & Layton, Lith. 66.3 cm. x 101.2 cm., illus.

   b. Diagram Showing the Progressive Increase of Size of the Valves.... London: J.C. Wilson, n.d. 63.5 cm. x 23.2 cm., illus. Included: photo copy of catalogue & price list.

VOLUME: 169

1. American Railway Master Mechanics' Assoc., Cylinder Bushings. 256 Broadway, New York: American Railway Master Mechanics' Assoc., April 22, 1896. 22.9 cm. x 15.2 cm., annotated. Questionnaire sent to members on above topic. Committee composed of: J.N. Barr, J.H. McConnell, John S. Chambers, Geo. F. Wilson, W.H. Marshall.

2. National Tube Works Co., Boston and Mckeesport, Penn., Cushion-Metal. Piston Rod. Indestructible Combination Elastic Cushion, and Metallic Packing. Boston, Mass.: National Tube Works Co., n.d. 17,.8 cm. x 11.8 cm., illus. Other offices and warehouses listed.

3. Dominion Metallic Packing Co., Elastic Metallic Rod Packing. Hamilton, Ont.: Dominion Metallic Packing Co., n.d. 28.4 cm. x 20.7 cm., illus., annotated. Lists advantages. Patent No. 45884. Also advertising the "Binghampton" flue cleaner. Patent date June 12, 1894.

4. H. Anderson, General Agent, H. Anderson Operating the Jerome Metallic Packing Patents. Rm. 60, No. 204 Dearborn St., Chicago: H. Anderson, n.d. 27.9 cm. x 20.8 cm., illus. Lists railroad companies using device and prepared to give testimonials. Also lists advantages of device.

(Vol. 169 cont'd)

5. C.C. Jerome, C.C. Jerome, Metallic Packing. 35 & 37 S. Canal St., Chicago: C.C. Jerome, Jan. 5, 1897. 10.2 cm. x 15 cm., illus. Advertising post card for the "Jerome Metallic Packing" and "McIntosh Duplex Blow-Off Cock."

6. C.C. Jerome, Inventor & Proprietor, Compliments of C.C. Jerome, The Inventor. 35 & 37 So. Canal St., Chicago: C. C. Jerome, n.d. Printed by Rand, McNally & Co., Chicago. 58 cm. x 50 cm., illus. Advertisement for different types of metallic packing, including valve stem packing, piston rod packing, and air pump packing.

VOLUME: 170

1. Wisner & Strong, Improved Balance Slide Valve. Pittson, Pa.: Wisner & Strong, n.d. 25.4 cm. x 20.2 cm., illus. Text describes operation of valve. German & Butler, Agents.

2. The Tripp Anti-Friction Journal Bearing Co., The Tripp Patent Piston Valve. 33 India Wharf, Boston, Mass.: The Tripp Anti-Friction Journal Bearing Co., n.d. 26.7 cm. x 20.4 cm., illus.

3. Ommanney & Tatham, Engineers, Patent Variable Expansion Valve, Actuated Directly by the Governor. Salford, Manchester: Ommanney & Tatham, n.d. 26.3 cm. x 20.3 cm., illus. Two cross-section views of assembled valves shown. Mr. W.N. Dack, Patentee.

VOLUME: 171

1. [M.N. Torney], Statement Relative to Mileage, Speed and Fuel Consumption of N.Y. Central Railroad Engines Number 999, Empire State 888 and the London and North Western Compound Engines "Greater Britain." n.p.: [June/94]. 18.8 cm. x 19.5 cm., Annotated. Chart.

(Vol. 171 cont'd)

2. Stratford Civic Fuel Ticket. [Stratford]: 1918. 13.9 cm. x 8.7 cm., annotated. Made Out to: "J.D. Barnett 29 Dauro St."

VOLUME: 172

1. Robert Mitchell & Co., Montreal Brass Works, Plumb's Patent Smoke Consumer and Draught Increaser. St. Peter & Crais 54, Montreal, P.Q. : Robert Mitchell & Co., n.d. 31.2 cm. x 21 cm., illus. Describes advantages of system. Price list.

VOLUME: 175

1. Cie Gle des Produits Céramiques, Prix-Courant du mètre Carré pris à l'Usine pour 1888. Saint-Ghislain, Belgium: Cie Gle des Produits Céramiques, 1888. 15 cm. x 10 cm. Price list.

VOLUME: 177

1. Hoole Manufacturing Co., Manufacturers of and Dealers in Railway Supplies, Teal's Portable Hoist. 46 Bond & 53 Great Jones Sts., New York: Hoole Manufacturing Co., n.d. 26.5 cm. x 19.8 cm., illus. Describes operation of hoist. Patented April 8, 1884. Price list.

2. Lobnitz & Co., Lobnitz' Patent Built Links. Renfrew, Scotland Lobnitz & Co., 1894. 31.8 cm. x 21.2 cm., illus.

3. Pedrick & Ayer Co., Straight Lift Pneumatic Hoists. Built in Three Styles. 1001 Hamilton St., Philada., Pa.: Pedrick & Ayer Co., n.d. 27.3 cm. x 20.5 cm., illus., Annotated. chart giving sizes of hoists plus the cubic feet of free air to each full lift. Gives uses of the three styles.

VOLUME: 178

1. Joseph Booth & Bros., Union Foundry and Ironworks, Rodley, Leeds, Improved Hand Overhead Travelling Crane. 9 Ducksfoot Lane, Cannon St., London: A.E.W. Gwyn, London & Continental Agent, n.d. 21.7 cm. x 27.4 cm., illus., colour.

2. Bray Waddington & Co., New Dock Iron Works, 6 Tons Travelling Crane. Leeds: Bray Wassington & Co., n.d. 56.5 cm. x 83.5 cm., illus. Scale indicated.

VOLUME: 180

1. Free Press Steam Printing House, $500 Reward. $500. Boy Lost. Elgin St., Ottawa: Free Press Steam Printing, n.d. 23 cm. x 15.2 cm. Humorous broad-sheet regarding a lost person.

2. A. Wanless, The Flittin' o't. No. 57 Grand River Ave., Detroit: A. Wanless, 12 March 1894. 27.6 cm. x 10.6 cm. A poem by A. Wanless with an announcement of the removal of his stock of old books to a new address. [2 copies].

3. Frank A. Rutley, C. & G.T.R.R. A. Gratiot, Mich.: Frank A. Rutley, Aug. 8, 1884. 20.4 cm. x 12.8 cm. A poem.

VOLUME: 191

1. The Pratt & Whitney Co., Small Tool Dept., Renshaw's Ratchet Drills. Hartford, Conn.: The Pratt & Whitney Co., n.d. 33.7 cm. x 27.5 cm., illus. All parts made of steel and hardened.

2. L.B. Flanders Machine Works, Pedrick & Ayer, Props., Patent Portable Drilling Machines. No. 1025 Hamilton St., Philadelphia, Pa.: L.B. Flanders, n.d. 28 cm. x 215 cm., illus. "Manufacturers of Special Tools for Railway Repair Shops". Describes uses of various drills as well as explaining the operation of the machine.

(Vol. 191 cont'd)

3. Darling Bros., Reliance Works, New Patent Automatic Feed Driller. 112 Queen St., Montreal: Darling Bros., n.d. 19.8 cm. x 9.2 cm., illus. Price given as well as advantages.

4. Hulse & Co., Ordsal Tool Works, Self-Acting Vertical Drilling and Boring Machine. No. 69. Salford, Manchester: Hulse & Co., n.d. 32.7 cm. x 20.4 cm., illus. Describes specifications of machine as well as giving a table of sizes.

5. Stevens, Hamilton & Co., 20" Drilling Machine, Ahead of All Competitors. Galt, Ont.: Stevens, Hamilton & Co., n.d. 27.5 cm. x 21 cm., illus., annotated. Describes operation of machine as well as specifications.

6. Briggs & Dougherty, Patentees, Patent Chucks for Boring Out Car Brasses. Whistler, Ala.: Briggs & Dougherty, Feb. 15, 1883. 27.8 cm. x 21.2cm., illus. Will supply chucks or will sell shop rights. Rubber stamp: "Midland Railway of Canada Port Hope".

7. W.H. Warren, Warren's Latest Balanced Spindle 6 Feet Radial Drilling Machine. 35 & 37 Hermon St., Worcester, Mass.: W.H. Warren, n.d. 30.2 cm. x 40.7 cm., illus. Illustrates both side and front views. Describes operation of machine.

VOLUME: 192

1. Lang & Barclay Manufacturing Co., Barclay's Combination Turning and Grinding Machine, for Trveing up Steel Tired and Chilled Iron Car Wheels. [39 St. Canal St.], Chicago, Ill.: Lang & Barclay Manufacturing Co., n.d. 28.7 cm. x 22.3 cm., illus., annotated. Describes operation. Patented Aug. 19, 1884.

VOLUME: 193

1. Arthur C. Frisbie, Railroad, Machinist and Engineers' Supplies, No More Leaky Valves. The Wright & Trust Patent Valve File. Worcester, Mass.: Arthur C. Frisbie, n.d. 21.4 cm. x 14 cm., illus. Price given.

(Vol. 193 cont'd)

2. Water Works Equipment Co., The Revelation Calking Tool. 50 Church St., N.Y.: Water Works Equipment Co., 1915. 8.8 cm. x 16.5 cm., illus. Advertising post-card. Tool used in lead calking of pipes.

3. The Pratt & Whitney Co., 12 in., (or 300 m/m) Standard Measuring Machine with Microscope & Graduated Bar. Hartford, Conn.: The Pratt & Whitney Co., 1893. 26.3 cm. x 18 cm., illus.

4. H.B. Underwood & Co., General Machinists & Engineers, Portable Valve Seat Rotary Planing Machine. 1025 Hamilton St., Philadelphia: H.B. Underwood & Co., n.d. 30.5 cm. x 22.9 cm., illus. Lists other equipment made by the company.

5. [R.H. Tweddell], Tweddell's Patent Hydraulic Machine Tools. [14 Delahay St., Westminster, London: R.H. Tweddell], n.d. 46.6 cm. x 70 cm., illus., annotated. Illustrations not captioned. Rubber stamp annotation. Grand Prix 1878.

6. [R.H. Tweddell], Tweddell's Patent Hydraulic Machine Tools. [14, Delahay St., Westminster, London: R.H. Tweddell], n.d. 45.7 cm. x 70 cm., illus., Annotated. Illustrations not Captioned. Rubber stamp annotation. Grand Prix 1878.

7. American Railway Master Mechanics' Assoc. [Notice of resolutions adopted after meeting with the Assoc. of American Steel Manufacturers]. No. 974. Rookery Building, Chicago, Ill.: American Railway Master Mechanics' Assoc., Nov. 30, 1896. 22 cm. x 15.3 cm. Regarding the decimal system of fauging.

VOLUME: 194

1. [John Brooks, Lye nr. Stourbridge, England, Manufacturer of all Kinds of Anvils, Vices, Hammers, Chains, etc. Montreal: Drummond, McCall & Co., Representatives], n.d. 63.5 cm. x 48.2 cm., illus., annotated. Portion removed. Illustrations of numerous tools including anvils, vices, hammers, picks, anchors. Rubber stamp annotation.

(Vol. 194 cont'd)

2. J.W. Payler, Inventor and Patentee, Offset Handles, or Carriers for Files Etc. 708 Fourteenth Ave., Detroit, Mich.: J.W. Payler, n.d. 28.8 cm. x 23.6 cm., illus. Describes different "Carriers".

3. The J.T. Schaffer Manufacturing Co., An Hydraulic Wheel Press. Rochester, N.Y.: J.T. Schaffer Manufacturing Co., n.d. 31.1 cm. x 23.5 cm., illus.

4. J.T. Schaffer & Co., Schaffer's Improved Hydraulic Press. No. 2. Rochester, N.Y.: J.T. Schaffer & Co., n.d. 27.2 cm. x 20.6 cm., illus.

5. E.P. Dwight, Rail Straighteners Made of Steel. 407 Library St., Philadelphia: E.P. Dwight, n.d. 21.6 cm. x 13.9 cm., illus.

6. Monash-Younker Co., Star Wrench. 203 So. Canal St., Chicago: Monash-Younker Co., 1897. 8.9 cm. x 13.9 cm., illus. Advertising post-card. Prices given.

7. Cleveland Malleable Iron Co., Malleable Iron Shovel, No. 1626. Cleveland, Ohio: Cleveland Malleable Iron Co., n.d. 13.3 cm. x 15.7 cm., illus. Price given.

8. M.M. Buck Mfg. Co., The "Cochran" Universal Pipe Wrench. 210, 212 & 214 N. Third St., St. Louis, Mo.: M.M. Buck Mfg. Co., n.d. 22.6 cm. x 15.3 cm., illus. Describes advantages. Lists prices. Patented Oct. 16, 1894.

9. Niagara Stamping and Tool Co., The Tinsmith's Helper and Pattern Book... by H.K Vosburgh. Buffalo, N.Y.: Niagara Stamping and Tool Co., n.d. 21.5 cm x 13.8 cm. Advertising giveaway.

10. A.O. Kittredge, The Metal Worker Pattern Book, 4th ed. 66 and 68 Duane st., New York: David Williams, 1886. 21.5 cm. x 14.5 cm. Promotional advertisement from David Williams.

11. McCoy & Saunders, Screw Rail Bender or Jim Crow. Hydraulic Rail Bender. 26 Warren St., N.Y.: McCoy & Sanders, Dec. 1885. 25.2 cm. x 13.8 cm., illus. Gives sizes and prices.

(Vol. 194 cont'd)

12. Joyce, Cridland & Co., Traversing Jack Department. Daytor, Ohio: Joyces, Cridland & Co., n.d. 40.5 cm. x 25.9 cm., illus. Illustrations of nine different jacks with specifications and price.

13. [Kearney & Foot Co.], Works: Paterson, New Jersey, Manufacturers of Files and Rasps. 101 Chambers St., N.Y.: [Kearney & Foot Co.], n.d. 44 cm. x 61 cm., illus., annotated. Numerous illustrations plus diagrams of standard sizes, stubs, cuts and shapes of files and rasps.

VOLUME: 196

1. Davey & Crawley, Crawley's Velocimeter. Cincinnati, O.: Davey & Crawley, Nov. 9, 1876. 35.5 cm. x 21.5 cm., illus., annotated. Text describes uses and operation. Bottom is letter to Mr. Barnett.

2. Hugo Hausshalter, [Speed Indicator]. Dresden, Germany: Hugo Hausshalter, n.d. 7.5 cm. x 11 cm., illus., annotated. Business card [?].

VOLUME: 197

1. The B. Greening Wire Co., Ltd., Brown's Patent Steel Wire Chain. Hamilton, Canada: The B. Greening Wire Co., Ltd., [1890]. 26 cm. x 17 cm., illus., annotated. Announcing plans of marketing the above chain.

2. The Glasgow Anchor and Chain Cable Testing Co., Ltd., Important - New Testing Facilities for Glasgow and District. Lloyds Proving House, Glasgow. Glasgow: The Glasgow Anchor and Chain Cable Testing Co., Ltd., Dec. 1892. 33 cm. x 20.3 cm. Announcement of the improved facilities now available.

(Vol. 197 cont'd)

3. Riehlé Brothers, Testing Department, Philadelphia Scale and Testing Machine Works. 50 & 52 S. Fourth St., Philadelphia: Riehlé Brothers, 187[?]. 42.5 cm. x 58 cm., illus. Diagrams of form of specimen for various tests. Lists various tests they administer with their charges.

VOLUME: 199

1. Three Rivers Railway Supply Co., Highway Crossing Bells. Three Rivers, Mich.: Three Rivers Railway Supply Co., n.d. 17.5 cm. x 11.2 cm., illus.

2. John McMurtry and T.J. Pilcher, Patentees, Mechanical Train Dispatcher or Indicator. Lexingtor, Ky.: J. McMurtry and T.S. Pilcher, n.d. 28.4 cm. x 21 cm. Patented Aug. 15, 1882. "Description of the Construction and Operation of the Invention..." is given.

3. The Union Switch and Signal Co., Plan for the Protection of Railroad Crossings at Grade. Single Track Crossing. Garrison Alley & Duquesne Way, Pittsburgh, Pa.: The Union Switch & Signal Co., n.d. 36.5 cm. x 31 cm., illus. Gives a description of the apparatus employed at Wellington, Ohio.

VOLUME: 200

1. The Week Pub. Co., Ltd., The Week. A Journal for Men and Women. Toronto: The Week Pub. Co., Ltd., Sept. 20, 1895. 33.1 cm. x 22.1 cm., illus. colour. Copy of magazine cover.

2. The Week Pub. Co., Ltd., The Week. A Journal for Men and Women. Toronto: The Week Pub. Co., Ltd., May 31, 1895. 32.8 cm. x 41.2 cm., illus., colour. Copy of magazine cover.

VOLUME: 203

1. Charles Tripler Child, The How and Why of Electricity. 27 Warren St., N.Y.; D. Van Nostrand Co., [1902?]. 22.7 cm. x 15 cm. Advertisement.

VOLUME: 204

1. L.N. Dufresne, Telegraph Chart of the Gulf and Lower St. Lawrence. Quebec: Hon. P. Fortin, n.d. Printed by the Burland Desbarats Lith. Co., Montreal. 56 cm. x 71.6 cm., colour.

2. Telegraph and Signal Service, Map of the World's Submarine Cables and Principal Telegraph Lines. Ottawa[?]: Dept. of Public Works, Dominion of Canada, 1883. 63.5 cm. x 101 cm., illus., colour. Various charts included regarding distances, routes and dates of cables.

VOLUME: 208

1. Citizens of Sacramento, California, Invitation to Their Grand Electrical Carnival. Sacramento, California: Invitation Committee, Sept. 9, 1895. 26.8 cm. x 19.2 cm., illus., colour. In commernoration of the installation of an electrical plant by The Folsom Water Power Company.

VOLUME: 211

1. E. Leonard & Sons Limited, Engine and Boiler Manufacturers, Return Tubular Boiler-Manhole in Front Head. London, Canada: E. Leonard & Sons, n.d. 16 cm. x 24.2 cm., illus., colour. Various Canadian agencies listed.

(Vol. 211 cont'd)

2. Fraser & Chalmers, Ltd., Erith, Kent, England; Chicago, Ill., Most Economical Boilers. 43, Threadneedle St., London: Fraser & Chalmers, n.d. 22 cm. x 14.8 cm., illus. Illus. of "Multi-Tubular Steam Boiler."

3. Falls Hollow Staybolt Co., All Staybolts Give Warning When Broken. Cuyahoga Falls, O., U.S.A.: Falls Hollow Staybolt Co., n.d. 29.2 cm. x 21.6 cm., illus. Describes advantages of their staybolt.

4. The Boiler Capsule and Gasket Co., Danbury, Conn., Saunders' Combination Boiler Gasket. 13 Astor Place, N.Y.: A.H. Coit, Agent, n.d. 26.7 cm. x 20.2 cm. Describes advantages and includes price list. Patent date May 8, 1894.

5. American Railway Master Mechanics' Assoc., Foundation Ring for Boiler Leg-Best Form and Advisability of Double Riveting. n.p.: American Railway Master Mechanics' Assoc., [1889]. 19.2 cm. x 21.5 cm. Drawings referred to in text are missing. Date annotated. Recommendations from the committee. Committee members: J.N. Lauder, W.J. Robertson, H. Tandy.

6. C.B. Conventry & Co., The Coventry-Ford Superheating Locomotive Boiler. 162 La Salle St., Chicago, Ill.: C.B. Coventry & Co., n.d.

   a. 30 cm. x 15 cm., illus. Describes advantages of boiler.

   b. 14.5 cm. x 8 cm., illus. Clipping describing boiler.

   c. 30 cm. x 8 cm. Letter to the editor dated 1886 from Mr. Coventry defending his boiler.

   All three pieces are attached.

VOLUME: 212

1. Soames V. Evans, Engineers, Millwrights & Boiler Makers, Morden Iron Works, The Advantages Claimed for the Patent Double Cone Boiler. East Greenwich: Soames V. Evans, n.d. 28.7 cm. x 20 cm., illus. Advantages listed.

(Vol. 212 cont'd)

2. [S. Woodall, Windmill End Boiler Works, Steam Boiler. Dudley, England: S. Woodall, 1874]. 21.1 cm. x 33.4 cm., illus.

3. John M. Moore, Specification of Work Required to be done in the Construction of Steam Boilers for the Stratford Water Works. London, [England]: John M. Moore, n.d. 23.5 cm. x 21 cm.

4. Shard, Mason & Co., Fire Engine Makers and Hydraulic Engineers, Shand, Mason & Co.'s Patent Inclined Water Tube Boiler .... 75, Upper Ground St., Blackfriars Rd., London: Shard, Mason & Co., n.d. 28.2 cm. x 20.5 cm., illus. Sectional drawing of boiler plus description of composition and testimonials. Testimonials dated 1869 & 1870.

VOLUME: 213

1. Conrad Knap & Co., Ltd., Patent Water Tube Steam Boiler. London: Conrad Knap & Co., n.d. 56.7 cm. x 67.2 cm., illus. Scale 1" = 1'. Front elevation plus longitudinal section of boiler drawn to scale. Advantages listed. Patented 1897.

VOLUME: 214

1. American Railway Master Mechanics' Assoc., Purification or Softening of Feed Water for Use in Boilers. 175 Dearborn St., Chicago: American Railway Master Mechanics' Assoc., 12 Dec. 1887. 21.5 cm. x 14 cm., annotated. Questionnaire sent to members of the association. Members of the committee: H. Hackney, J. Player, and W.T. Small.

2. Pittsburgh Boiler Scale Resolvent Co., Petroleum as a Boiler Scale Resolvent and Preventive. 28 Lewis Block, Pittsburgh, Pa.: Pittsburgh Boiler Scale Resolvent Co., n.d. 25.1 cm. x 21.7 cm. Describes how to use the product and benefits derived from use.

(Vol. 214 cont'd)

3. William Clegg, Machinist & Machinery Broker, Hollands' Combined Heater and Condenser. Mitchell, Ontario: William Clegg, n.d. 22.3 cm. x 15 cm., illus. Patented Aug. 1882. Text describes process, benefits and price.

VOLUME: 216

1. W.F. Turreff, General Master Mechanic, Test of Eng. No. 152. Engine & Boiler Performance. Cleveland, O.: Cleveland, Columbuus, Cincinnati & Indianapolis Railway Co., 15 May 1885. 28.5 cm. x 21.2 cm. Table of results of four different tests using various nozzles, arches and stacks.

2. William Wallace Christie, Furnace Draft: Its Production by Mechanical Methods. A Handy Reference Book With Figures and Tables. 27 Warren St., New York City: D. van Nostrand Co., n.d. 14 cm. x 15 cm. Prospectus.

VOLUME: 217

1. Henry C. Ayer & Gleason Co., Special Tools for Railway Repair Shops, The Johnson Self-Feeing Boiler Tube Expander. 919 Betz Bldg., Philadelphia, Pa.: Henry C. Ayer & Gleason Co., [June 1894]. 30.5 cm. x 22.8 cm., illus. Date annotated. Describes operation of tool as well as giving a letter of recommendation.

2. L.B. Flanders Machine Works, Baughman's Patent Boiler Tube Cutter. 1025 Hamilton st., Philadelphia, Pa.: Pedrick & Ayer, Proprietros, n.d. 25.3 cm. x 21.5 cm., illus. Text describes operation of tool.

3. Philip S. Justice & Co., Patent Weldless Solid Drawn Steel Tubes. No. 14. N. 5th St., Philadelphia, Pa.: Philip S. Justice & Co., n.d. 22 cm. x 28.2 cm., colour. Price list.

(Vol. 217 cont'd)

4. Arthur C. Frisbie, Engineers' and Machinists' Specialities, "Ingall's Improved" Patent Flue Cleaner. Worcester, Mass.: Arthur C. frisbie, n.d. 21.3 cm. x 13.8 cm., illus. Text describes use and composition of tool.

5. Roland A. McGuire, Riveted Joints. 39 Centre St., St. Catherines, Ont.: Roland A. McGuire, Jan. 14, 1907. 35.4 cm. x 45.5 cm., illus., Scale 3" = 1 ". Drawing for course in mechanical drawing from international correspondence schools, Scranton, Pa.

6. Hoopes & Townsend, Announcement of the Winning of a Gold Medal at the Paris Exposition for "Bolts, Cold-Punched Nuts and 'Keystone' Boiler Rivets." Philadelphia: Hoopes & Townsend, 2 Dec. 1878. 26.5 cm. x 20 cm., illus.

7. Irving Manufacturing and Tool Co., Roller Tube Expanders. 26Warren st., New York: McCoy & Sanders, Aug. 1886. 17.1 cm. x 14.3 cm., illus., colour. Price list.

8. Shelby Steel Tube Co., Solid-Drawn Boiler Tubes. Clevland, O.: Shelby Steel Tube Co., n.d. 27.9 cm. x 22.3 cm., Colour. Advertisement using reproduction of editorial from Journal of the American Society of Naval Engineers, Nov., 1898.

VOLUME: 218

1. E.W. Harris, The Harris Variable Exhaust Nozzle. Palisade, Nevada: E.W. Harris, n.d. 10.8 cm. x 19.3 cm., illus., colour. Text describes operation of nozzle.

VOLUME: 224

1. J.G. Chase, Civil Engineer and Land Surveyor, Profile of the Centre Line of Canal with Soundings in Back River Harbor, Buzzards Bay and Barnstable Bay. 459 Main st., Cambridgeport: J.G. Chase, n.d. 21.3 cm. x 177 cm., illus. colour. Scale indicated.

VOLUME: 231

1. [New Passenger Dept, Chicago]. n.p.: n.d. Printer: The [?] W. Jones S & P Co. 22.9 cm.x 35.2 cm., illus., colour. Printed drawing, annotated on reverse.

VOLUME: 233

1. Frederick E. Cooper, Resident Engineer
During Construction of the Metropolitan District Railway, London, Drawings From the London Underground Railways Furnished to the B.P.T. Co. for the Broadway Underground Railway N.Y. Sketch of Construction. London: J. Fowler, Engineer in Chief of all the Metropolitan Railways, n.d. Printed by Deutz Bros., 35 Beekman St. N.y. Various Sizes, illus., colour. Scale 1/5 in. = 1 Foot.

    a. Opposite Farm House Earl's Court. 55.2 cm. x 41.8 cm.

    b. Opposite "Standard" Tavern Vauxhall Bridge road. 56.3 cm. x 43.5 cm.

    c. Opposite Belgrave Mansions Westminster. 58.7 cm. x 37 cm.

    d. Opposite Somerset House. 42.6 cm. x 67 cm.

    e. Opposite "Muggeridges" Grararies Earl St. 55.5 cm. x 41.2 cm.

    f. Opposite Bible Society's Warehouse Queen Victoria St. 60.7 cm. x 42. 6 cm.

    g. Opposite - Warehouse Gt. Trinity Lane. 59 cm. x 41 cm.

    h. In Park Road Regent's Park. 43 cm. x 43.4 cm.

2. New Post Office & Proposed Broadway Underground Railway. n.p.: n.d. Printed by AM Photo-Lithographic Co., N.Y. 32.6 cm. x 21.5 cm., illus.

VOLUME: 234

1. Chandler & Price Co., The Largest Single Shipment of Platen Printing Presses Ever Forwarded by One Firm. Cleveland, Ohio: Chandler & Price Co., n.d. 5.2 cm. x 85.4 cm., illus. Advertisement consisting of a drawing of a train.

2. J.G. Pangbourn, The World's Rail Way. New York: Angus Sinclair Co., n.d. 22.9 cm. x 15.2 cm. Advertisement for a book.

3. C.W. Hunt Company, Hunt's System of Narrow Gauge Railways. 45 Broadway, N.Y.: C.W. Hunt Co., 1888. 66 cm. x 50 cm., illus., colour. Various illustrations including: flat cars, changing car, coal car, coke car and employees' car, as well as information on gauge, speed, grades and prices.

4. Geological Survey of Canada, Profiles Accompanying Report on Altitudes in the Dominion of Canada. Ottawa: Geological Survey of Canada, 1901. Various sizes, colour. Scales indicated. With envelope.

    a. Sheet 1 - Profile of Canadian Pacific Railway Main Line. Montreal to Winnipeg. 23.1 cm. x 127.2 cm.

    b. Sheet 2 - Profile of Canadian Pacific Railway Main Line. Winnipeg to Vancouver. 22.7 cm. x 131 cm.

    c. Sheet 3 - Profile of Canadian Pacific Railway, Old Location via Yellowhead Pass. 22.8 cm. x 117.8 cm.

    d. Sheet 4 - Profile of River St. Lawrence and the Great Lakes. 21.1 cm. x 128.1 cm.

VOLUME: 236

1. Geo. A. Cox, President, Report of the President and Directors of the Midland Railway of Canada. n.p.: Midland Railway of Canada, 31 Dec. 1883. 59.3 cm. x 47.2 cm., annotated printer's proof. Message from president as well as auditor's report.

(Vol. 236 cont'd)

2. A. White, Traffic Manager, Classified Statement of Earnings for the Year Ending December 31st, 1883. n.p.: [Midland Railway of Canada], 1883. 60.6 cm. x 24 cm., annotated. Also includes "Expenses, Mileage, &c., in Mechanical Department." Printer's proof.

3. Consists of Three Reports: A. White, Traffic Manager, Traffic Report. Peterborough. J.G. MacKlin, Chief Engineer, Engineer's Department. Peterborough. J. Davis Barnett, Mechanical Superintendent's Report. Port Hope. Published by [Midland Railway of Canada], 1883. 60.8 cm. x 48.3 cm., annotated. Printer's Proof.

4. Ottawa Free Press, The Grand Trunk Company and Politics. [Ottawa Free Press, 17 June 1890. 27.4 cm. x 13.6 cm. Editorial.

VOLUME: 240

1. Mersey Railway Co., Local Rates. Through Rates with Wirral Railway. Application for Season Ticket. England: Mersey Railway Co., 190?. 38 cm. x 25.8 cm.

VOLUME: 241

1. The Engineers of the North-West [United States], The Difficulty on the M.S. & N.I.R.R. United States: n.d. 29.4 cm. x 20.7 cm. Names and describes various incompetent workers employed by railroad.

2. Locomotive Engineers Throughout the United States, Notice. Travelers and Shippers Beware of the M.S. & N.I. Railroad' United States: n.d. 29.5 cm. x 21.2 cm. Names and describes various incompetent workers employed by railroad.

VOLUME: 244

1. The Bridgeport Gun Implement Co., New York, The Bridgeport Cyclometer. New York: The Bridgeport Gun Implement Co., n.d. 21.9 cm. x 14 cm., illus. Price, weight given. Cyclometer attached to bicycle wheel.

2. The T. Eaton Co., Ltd., Toronto, Ride Only the "New Rapid" [Bicycle]. Toronto: The T. Eaton Co., Limited, n.d. 28.9 cm. x 21.4 cm., illus. Gives description, testimonials, price. Bears rubber stamp: "J.H. Kenner's City Book Store, Stratford."

VOLUME: 249

1. American Railway Master Mechanics' Association, Compound Locomotives. U.S.A.: American Railway Master Mechanics' Association, 1893. 55.6 cm. x 73.9 cm. Gives test results from 12 railroad companies, lists conclusions, 14 tables. Committee members: George Gibbs, William H. Lewis, Polaski Leeds, James Meehan, T.W. Gentry.

VOLUME: 251

1. Charles Carr, Bellfounder, Smethwick, Birmingham,

    a. Prices of Bells with Fittings and Ropes Complete Ready for Fixing, as per Sketches on Illustrated Sheet.

    b. [Illustrated Sheet]. Birmingham: Charles Carr, 1889. 31.4 cm. x 23.8 cm., 50.7 cm. x 36 cm., illus.

2. Magnetic and Electric Telegraph Works, London, Zanni's Magneto-Electric Bells, Dispensing with the Use of Voltaic Batteries. London: Magnetic and Electric Telegraph Works, n.d. 26 cm. x 19.6 cm., illus. Bears Rubber Stamp: "John Farmer & Co., Sole Agents, 47, Holborn Viaduct."

VOLUME: 256

1. The Royal Mail Steam Packet Co., R.M.S.P. "Arcadian." New York: The Royal Mail Steam Packet Co., 1911. 69.3 cm. x 71.3 cm., illus. Description of ship specimen dimensions, interior diagrams.

VOLUME: 260

1. Northhouse, W.S., Temporary Manager, at the Office of the Solicitors to the Institution, Messrs. Wilkinson & Page, London, Preliminary Prospectus of the Mercantile Mariners' Home and Hospital, to Be Erected and Provided for.... London: Messrs. Wilkinson & Page, 1840. 38 cm. x 45.4 cm., illus.

VOLUME: 263

1. Diagram of the Assembly Chamber, 1862. Milwaukee: 1862. Lith. by L. Lipman, Milwaukee. 27.7 cm. x 43.2 cm., illus. Shows numbered seat assigned to each member and official.

VOLUME: 266

1. E. Howard Watch and Clock Co., New York, [Testimonial from New York Life Insurance Co. About electric clock system. Description of clock and tower]. New York: E. Howard Watch and Clock Co., 1898. 38.2 cm. x 22.9 cm., illus.

2. Elliot, Wm. P., Architect, S. View of the New Patent Office. Longitudinal Section of the Centre Building Completed. Plan of National Gallery of American Manufactures and Agriculture. Washington: n.d. P. Haas, Lith. 46.9 cm. x 32.5 cm., illus.

VOLUME: 267

1. The Yemassee Mining Bureau and Prospecting Co., Hot Sprints, Arkansas, List of Mineral Species for Sale. Hot Springs: The Yemassee Mining Bureau and Prospecting Co., n.d. 27.5 cm. x 13.4 cm. Price List.

VOLUME: 268

1. The Broughton Copper Co. Ltd., Manchester, Approximate Weight of the Standard Sizes of Seamless Copper Tubes Which are Kept in Stock. Manchester: The Broughton Copper Co., Ltd., n.d. 14 cm. x 8.6 cm.

2. Terhune, Richard H., Note on Cast-Steel Water-Jackets. Buffalo Meeting, Oct. 1888. U.S.A.: American Institute of Mining Engineers, 1888. 21.2 cm. x 14.1 cm.

VOLUME: 275

1. D.M. Thompson & Co., Architects and Cotton Mill Engineers, [Statistics of Manville Mill, Manville, R.I. Description of a publication about the mill]. Providence, R.I.: D.M. Thompson & Co., 1876. 26.1 cm. x 21.4 cm. Addressed to the Director General of the United States Centennial Commission, International Exhibition.

VOLUME: 282

1. Green, B.W., Word-Book of Virginai Folk-Speech. Prospectus and Subscription Form. Richmond, Va.: Wm. Ellis Jones, Publisher, n.d. 35.7 cm. x 21.8 cm.

(Vol. 282 cont'd)

2. Hodgson, J., The Cumberland Dialect. Reprinted from the "West Cumberland Times." Cockermouth: Brash Bros., Printers, n.d. 24.5 cm. x 18.3 cm.

VOLUME: 285

1. Bristol & Loomis, Real Estate and Loans, The St. Paul Ice Place, 1887. 135 East Sixth Street, Hotel Ryan, Saint Paul, Minn.: Bristol & Loomis, 1887. Berlandi & Bott, Lith. 26.7 cm. x 36.4 cm., illus., Colour. Drawing and dimensions of ice palace.

VOLUME: 288

1. John P. Cowing, Contracting Engineer, Cleveland, The Cowing Patent Turn Table Center, for Railroad Engines, Cars, Etc. Cleveland, Ohio: John P. Cowing, n.d. 27.5 cm. x 21.4 cm., illus.

2. Kellogg Bridge Co., Buffalo, N.Y., Wrought-Iron Turn-Table. Buffalo: Kellogg Bridge Co., n.d. 39.6 cm. x 66 cm., illus. Scale drawings.

3. R. Ormerod & Son, Manchester, Dunn's Improvements in Railway TurnTables. Manchester: R. Ormerod & Son, [ca. 1855].

4. William Sellers & Co., Cast Iron Turn Table. Dimensions of Table. Bill of Timber Required When the Pit is Coverd.... When the Pit is Uncovered. General Directions. Description. 1600 Hamilton Street, Philadelphia: Wm. Sellers & Co., n.d. 78.8 cm. x 58.4 cm., illus.

5. Wrought Iron Turntable, Wood's Patent. London: [1854]. Day & Son, Lith. 63.5 cm. x 100.6 cm., illus., annotated.

VOLUME: 290

1. The New York Academy of Sciences, Audubon Monument Committee, [Soliciting donations for monument for John James Audubon, to be erected in Trinity Church Cemetery, New York City]. New York: The New York Academy of Sciences, 1888. 26.6 cm. x 21.4 cm., illus.

VOLUME: 303

1. The Goheen Mfg. Co., Canton, Ohio, Table of Cost in Painting 14th St. Viaduct Denver, Colorado. Canton: The Goheen Mfg. Co., 1898. 32.9 cm. x 22.9 cm., illus.

VOLUME: 305

1. Edward Darby & Sons, Pennsylvania Wire Works, Revised Net Price List of Sieves, Riddles, Steel Wire Foundry Brushes, Coal and Sand Screens. Philadelphia: Edward Darby & Sons, 1888. 16.9 cm. x 21.6 cm., illus.

VOLUME: 309

1. Alfred, James W., Improved Dumping Car. [Mahaffery, Pa.]: James W. Alfred, n.d. 26.8 cm. x 20.4 cm., illus., Annotated.

2. Railroad Car Journal, New York, Anatomy of a Freight Car. (No. 2.-Double Hopper Gondola Car.) List of Parts. New York: Railroad Car Journal, 1896. 35.3 cm. x 48.9 cm., illus. Overprint: "Compliments of the McConway & Torley Co. Pittsburgh, Pa. Sole Manufacturers of... The Janney Couplers for Freight and Passenger Cars."

VOLUME: 314

1. Carl Schuster, Berlin and London, Patent Office & School Tables and Forms. London: Carl Schuster, n.d. 29.5 cm. x 23 cm., illus.

VOLUME: 318

1. G.T.R. Literary Institute, Annual Report for the Year Ending Feb. 28th, 1894. Stratford, Ont.: G.T.R. Literary Institute, 1894. 27.7 cm. x 13.9 cm. Gives financial statement. Mentions J.D. Barnett as Chairman and President, and acknowledges his donation of 10 volumes to the reading room.

VOLUME: 320

1. C.W. Hunt Co., Staten Island, New York, "Hunt System" of Machinery for Handling Coal Ore and All Heavy Materials on Wharves or in Manufactories. 45 Broadway, New York: C.W. Hunt Co., 1889. 63 cm. x 59.7 cm., illus. Shows: Hunt's Steam Shovel or Self-Filling Coal Tub in use at various companies; various railway cars; various blocks; and hoisting engines.

2. Priestman Brothers Ltd., London & Hull, England, The Patent Dredger, Excavator & Elevator. 73a, Queen Victoria Street, London: Priestman Brothers Ltd., n.d. 50.6 cm. x 64.7 cm., illus., colour. Illustrations of: dredgers and excavators in operation, buckets and grabs open and shut. Text in English, French and Spanish. Describes cost of working and advantages, and awards received in early 1880's.

VOLUME: 331

1. Elie De Beaumont, Tableau Chronologique. Rue St. Honoré 45, Paris: A. Gente, [1851]. Imp. De Chardon. 60.5 cm. x 40.9 cm., illus. Chart showing: anciennes divisions wermèriennes, noms des terrains et des étages, coupr théorique, order d'apparition des étres organisés; fossiles charactéristiques de chaque étage.

VOLUME: 337

1. British Museum, Natural History, Guide to the Exhibition Illustrating the Volcanic Eruptions in the West Indies. London: British Museum, 1902. 26.8 cm. x 18.3 cm.

VOLUME: 345

1. The Railway Building and Loan Association, Agreement Between The Railway Building and Loan Association and the Minnesota Loan and Trust Co., as Trustee. Minneapolis: The Railway Building and Loan Association, 1889. 28 cm. x 21.6 cm.

VOLUME: 346

1. Esquié, Pierre, Traité Élémentaire D'Architecture. Prospectus. 51, Rue Des Écoles, Paris: Charles Schmid, n.d. 27.5 cm. x 22.2 cm.

VOLUME: 347

1. Bonney Vise & Tool Works, A.O. Bills, Proprietor, The Indispensible Lathe Dog. Drop Forged from Bar Steel. 3015 Chestnut St., Philadelphia: Bonney Vise & Tool Works, n.d. 24 cm. x 14.8 cm., illus. Lathe dog is pictured and described. Price list.

2. John Bertram & Sons, Canada Tool Works, Dundas, Ont. and Montreal, Machine Tools for Working Iron, Steel & Brass. Dundas: John Bertram & Sons, n.d. 21.2 cm. x 27.6 cm., illus. Lathe is pictured. No text. Incomplete: top edge has been cut.

3. Putnam Machine Co., New Patent Improved 79-Inch Swing Double-Headed Driving-Wheel Lathe, With 10 Speeds, Driven by Internal & External Face-Plate Gears. Fitchburg, Mass.: Putnam Machine Co., n.d. 26.6 cm. x 20 cm., illus. Photoglyph print: W.P. Allen, Gardner, Mass. Putnam Co. est. 1836. Lathe is pictured and described.

4. R. Hoffeld & Co., Machinery, Special Heavy 22-Inch. Engine Lathe Designed for Locomotive, Engine & Pump Builders. Buffalo: R. Hoffeld & Co., [1898]. 24.1 cm. x 15.8 cm., illus. Lathe is pictured and described.

5. Smith & Coventry, Gresley Iron Works, Patent Chasing Lathes, for Chasing Turned Bolts, Studs, Set Screws.... Ordsal Lane, Salford, Manchester: Smith & Coventry, n.d. 27 cm. x 21.4 cm., illus. Lathe is pictured and described.

6. Stevens, Hamilton & Co., 18" Engine Lathe. Galt, Ont., Canada: Stevens, Hamilton & Co., n.d. 27.6 cm. x 21.1 cm., illus. Lathe is pictured and described. Price list.

7. Wm. Sellers & Co., Patent Wheel Turning Lathe, 78 Inch Swing. Philadelphia: Wm. Sellers & Co., n.d. 14.4 cm. x 22.1 cm., illus. Lathe is pictured. Phototype: F. Gutekunst.

VOLUME: 348

1. R. Hoffeld & Co., Machinery, Special Heavy 28 - inch. Triple Geared Shaper With Rotary Attachment. Buffalo: R. Hoffeld & Co., [1898]. 24.1 cm. x 15.8 cm., illus. Shaper is pictured and described.

(Vol. 348 cont'd)

2. Stevens, Hamilton & Co., Quick Return 16 Inch Stroke Shaping Machine. Galt, Ont., Canada: Stevens, Hamilton & Co., n.d. 26.5 cm. x 20.7 cm., illus. Shaper is pictured and described.

3. Wood, Light & Co., New York and Worcester, Mass., Warren's Patent Improved Shaper. Worcester: Wood, Light & Co., n.d. 28.1 cm. x 21.2 cm., illus. Shaper is pictured and described.

4. W.H. Warren, Warren's Patent 26 1/2 Inches Stroke Shaping Machine. 35 & 37 Hermon St., Worcester, Mass.: W.H. Warren, n.d. 40.4 cm. x 20.3 cm., illus. Shaper is pictured and described.

VOLUME: 349

1. A.H. Campbell, Inventor & Patentee, Campbell's Steam Chest Seat Milling Machine. Box 1136, Altoona, Blair Co., Pa.: A.H. Campbell, n.d. 26 cm. x 20.3 cm., illus. Milling Machine is pictured and described. "Exhibited by W.L. Jordan, Maryland Institute Exhibition, Baltimore, MD."

2. The Cincinnati Milling Machine Co., Milling Machines. Cincinnati: The Cincinnati Milling Machine Co., n.d. Printed by Crescent Printing Co., Cincinnati. 71.6 cm. x 50.8 cm., illus. Pictures and gives specifications of 4 machines. Diagrams showing various milling machine operations. Gives awards won 1884-1888.

3. C.A. & W.L. Teal, Teal's Improved Boiler Rolls. 4116 Ludlow St., Philadelphia: C.A. & W.L. Teal, n.d. 27.8 cm. x 20 cm., illus. Patented Feb. 15, 1876. Hand and steam-power rolls pictured and described.

4. George Addy, Waverly Works, Addy's Patent Milling Cutter. No. 18372. Sheffield: George Addy, n.d. 26.1 cm. x 20.5 cm., illus. Printed by Jowett & Sowry, Leeds. Lists advantages, customers. Description.

(Vol. 349 cont'd)

5. G.D Colton & Co., Combined Power Punch and Shears. Galesburg, Ill.: G.D. Colton & Co., n.d. 13.5 cm. x 7.8 cm., illus. No text.

6. The Niles Tool Works Co., Machines for Heavy Milling. May 1898 [Calendar]. Hamilton, Ohio: The Niles Tool Works, 1898. 40.8 cm. x 23.7 cm., illus. No text. Duplex Horizontal Milling Machine is pictured.

7. The Pratt & Whitney Co., Small Tool Dept., Punches, Dies and Coupling Attachments. Hartford, Conn.: The Pratt & Whitney Co., n.d. 30.5 cm. x 21.6 cm., illus. Includes dimensions and price list.

8. Stevens, Hamilton & Co., No. 6 Standard Milling Machine. Galt, Ont., Canada: Stevens, Hamilton & Co., n.d. 27.5 cm. x 21.4 cm., illus. Milling machine is pictured and described.

VOLUME: 350

1. The Whitman & Barnes Mfg. Co., Akron, Syracuse, Canton, St. Catharines, Boston, Philadelphia, Cincinnati, Chicago, and Kansas City, Illustrations of Flat Riveted Keys. Boston: The Whitman & Barnes Mfg. Co., n.d. 40.5 cm. x 40. cm., illus. Gives drawings and dimensions of 17 keys.

VOLUME: 351

1. D.L. Harris & Co., Machinists' Tools. Springfield, Mass.: D.L. Harris & Co., n.d. Printed by Samuel Bowles & Co., Springfield. 66 cm. x 49.5 cm., illus. Gives illustrations, descriptions, and specifications for: planer, lathes, and drills. Tools made from patterns formerly owned by the Springfield Tool Co.

2. The L.S. Starrett Co., Fine Mechanical Tools. Milling Gear & Other Cutters. Athol, Mass.: The L.S. Starrett Co., n.d. 6.6 cm. x 11.5 cm., illus. "Presented by Jas. D. Grant." No text. Picture of various tools, not labelled.

VOLUME: 352

1. Julins G. Neville y Cia., Ingenieros, Liverpool, Advertisement for machine tool manufacturer. Liverpool: Julius G. Neville, n.d. 39.8 cm. x 61 cm., illus. Advertisement, in Spanish, for English Company.

VOLUME: 354

1. Robinson, Eugene, City Surveyor, Map of Elmwood Cemetery City of Detroit. Detroit: Silas Farmer & Co., 1865. Lith. of D. McLellan & Bros., New York. 56.8 cm. x 90.4 cm., illus., Colour. Includes cemetery history and regulations, and a list of subscribers, with location of lots.

VOLUME: 355

1. Art Memorial Publishing Co., In Memory of Thomas J. Taylor Died April 3, 1886. 14 N. 7th Street, Philadelphia: Art Memorial Publishing Co., 1886. 16.5 cm. x 10.8 cm., illus., colour. Memorial card, with poem.

2. Edmond Pachy, Chapelles & Monuments en Granit Belge & Marbre Blanc. 212 Grande Rue, Roubaix: Edmond Pachy, n.d. 42.2 cm. x 54.3 cm., illus. Gives sizes and prices of various grave markers.

VOLUME: 356

1. Author Unknown, In Loving Remembrance of John Wilson ... Died Dec. 1., 1888. n.p.: 1888. 16.5 cm. x 10.8 cm., illus., colour. Memorial card with prayer.

VOLUME: 357

1. Gunther, Charles O., Intergration by Trigonometric and Imaginary Substitution. Prospectus. New York: D. Van Nostrand Co., n.d. 23 cm. x 15.3 cm.

2. Howe, George, Mathematics for the Practical Man. 2nd. Edition. Prospectus. New York: D. Van Nostrand Co., n.d. 22.5 cm. x 14.8 cm.

3. Merriman, Mansfield and Woodward, Robert S., Editors, Mathematical Monographs. Prospectus. New York: John Wiley & Sons, Inc., n.d. 19.7 cm. x 13.4 cm.

VOLUME: 358

1. Berliner Messinglinien-Fabrik, [Examples of decorative borders, etc. available for printing]. Berlin: Berliner Messinglinien, n.d. 38.8 cm. x 54.4 cm. Rubber stamp: "Export journal supplement. G. Hedeler Leipzig."

2. The Inland Printer, Chicago Standard Electrotype Scale. Chicago: The Inland Printer, 1896. 29.8 cm. x 42.1 cm. Supplement to The Inland Printer, No. 6, Vol. XVII. Advertisement for Journal.

3. Jackson Bros., Limited, Extrordinary Time-Saving Appliances for Civil & Mechanical Engineers, Architects, Physicists, Etc. Leeds: Jackson Bros., Ltd., n.d. 28.4 cm. x 22.5 cm., illus., colour. Illustrates and describes Goodman's patent averaging instrument and Goodman's patent planimeter.

4. Prospectus for 2 Books: Traverse Table Showing Lattitude and Departure for Each Quarter Degee.... Reprinted from Scribner's Pocket Table-Book. Van Nostrand's Table-Book for Civil and Mechanical Engineers. Compiled by Geo. W. Plympton. New York: D. Van Nostrand Co., n.d. 23.5 cm. x 15.2 cm.

5. Williams, Brown & Earle, Retail & Wholesale Agents, New India Rubber For Erasing. 918 Chestnut St., Philadelphia: Williams, Brown & Earle, n.d. 24 cm. x 15.2 cm., illus., colour. 3 erasers illustrated, with prices.

(Vol. 358 cont'd)

6. Williams, Brown and Earle, Manufacturs Sole Trade Agents, The Havens' Fountain Ruling Pan. 918 Chestnut St., Philadelphia: Williams, Brown and Earle, n.d. 24 cm. x 15 cm., illus., colour.

VOLUME: 367

1. Installation Plan Graphic Arts Building Pan-American Exposition Buffalo. Buffalo: 1901. J.C. Broderick Del. 61.3 cm. x 48.2 cm., illus. Signed by: Mr. Buchanan, Director-General. [M?] Moodey, Superintendent.

2. Installation Plan Graphic Arts Work Shop Pan-American Exhibition Buffalo. Buffalo: 1901. J.C. Broderick. Des. 48.4 cm. x 61.1 cm., illus. Scale: 1/8 Inch = 1 Foot. Signed by: Mr. Buchanan, Director-General. [M?] Mooney, Superintendent.

3. Wallkill Valley Railway, Map of the Centennial Grounds, and Buildings. Low Rate Excursion Tickets for Sale at all Stations. n.p.: n.d. 30.3 cm. x 42.4 cm.

VOLUME: 370

1. [Stencil of Administration Building, Chicago World's Fair, 1893]. n.p.: ca. 1893. 11.9 cm. x22 cm., illus.

VOLUME: 373

1. Views & Memoranda of Public Libraries. Specimen Page. n.p.: [1901]. 18.7 cm. x 25 cm., illus., Annotated. Picture and description of National Library of Ireland.

VOLUME: 375

1. Milimoto, K., Dealer in Pearl, Finest Pearl Ever Found in Japan Taken from Lake Biwa. Tokyo: K. Mikimoto, n.d. 21.7 cm. x 12.1 cm., illus. Describing pearl on display at St. Louis, Louisiana Purchase Exhibition.

VOLUME: 381

1. Small, J.W., Scottish Woodwork of the Sixteenth and Seventeenth Centuries. Prospectus. London: Bernard Quaritch, n.d. 42.2 cm. x 34.5 cm., illus. Gives testmonials. Specimen half page illustration of table.

VOLUME: 383

1. Salt Owner's Union, Manuel de la Puente, President, [Brief History and Description of Production of Marine Salt at Cadiz & Chemical Analysis of Product]. San Fernando: Salt Owner's Union, 1892. 35.7 cm. x 29.8 cm. Text in English and Spanish.

VOLUME: 386

1. Herlofson, M., Machines A Vapenr Patentees, Agissant Par Elles-Memes Pour l'Enforcement Des Piles, de L'Invention de M.M. Eassie & Cie. Paris: M. Herlofson, [After 1866]. 36.6 cm. x 24.7 cm., illus.

2. High Orchard Works, Gloucester & London, Eassies' Patent Self-Acting Steam Pile Driver. 18, Great George St., London: [After 1866]. 36.3 cm. x 28.3 cm., illus.

3. W. Eassie & Co., Sheet No. 21. Ordinary Pile Engine. Gloucester: W. Eassie & Co., n.d. Vincent Brooks, Lith., London. 37.5 cm. x 50.8 cm., illus. Scale: 4 feet = 1 Inch.

(Vol. 386 cont'd)

4. W. Eassie & Co., Sheet No. 22. Telescopic Pile Engine. Gloucester: W. Eassie & Co., n.d. Vincent Brooks, Lith., London. 37.5 cm., x 50.8 cm., illus. Scale: 4 Feet = 1 Inch.

5. W. Eassie & Co., Sheet No. 24. Eassies' Improved Main Pile & Sheet Pile Shoes. Gloucester: W. Eassie & Co., n.d. Vincent Brooks, Lith., London. 37.0 cm. x 47.4 cm., illus.

VOLUME: 389

1. W.F. Stanley & Co., Ltd., Stanley's Patent Repairing Sleeve for Band Chains. Great Turnstile, Holborn, London: W.F. Stanley & Co., n.d. Description and prices. Bears rubber stamp: "If delivered in Canada, packing, freight & duty paid 25% above these prices."

VOLUME: 390

1. American Braille. Alphabet, Marks, Figures, with Illustrations. n.p.: n.d. 31.4 cm. x 17.7 cm. Chart of raised dots.

2. Moon, W., Reading for the Blind. 104, Queen's Road, Brighton, Sussex, England: Moon's Society for Embossing & Circulating Books, Etc., for the Blind, n.d. 35.8 cm. x 27.9 cm. Includes instructions and raised symbols for alphabet. "The Lord's Prayer" written in symbols.

VOLUME: 391

1. California State Mining Bureau, Bulletin No. 28 ... Showing by Counties the Mineral Productions of California for the Year 1902. San Francisco: California State Mining Bureau, ca. 1903. 63.8 cm. x 85.4 cm.

(Vol. 391 cont'd)

2. Division of Mining & Mineral Resources, U.S. Geological Survey, Dept. of the Interior, Clay Products of the United States, 1902. Washington: Dept. of the Interior, 1903. 48.4 cm. x 53.3 cm. Chart, arranged by states, noting quantities and values of various clay products.

VOLUME: 393

1. Herold's Business College, [Description of Courses Offered]. n.p.: n.d. 38.1 cm. x 48 cm., illus. Top half of broadside only. Ornately decorated.

2. Pusey, Jones & Co., Price List of Chilled Iron Calendar Rolls. Wilmington, Delaware: Pusey, Jones & Co., n.d. 18.7 cm. x 25.5 cm. Lists paper manufacturers who have bought chilled calendar rolls.

3. Williams, Brown & Earle, Engineering, Drafting & Photographic Supplies, Profile and Cross Section Ruling on Linaura. 918 Chestnut St. Philadelphia: Williams, Brown & Earle, n.d. 23.8 cm. x 15.2 cm. Describes "Linaura" - woven fabric used as paper. Price list.

4. Williams, Brown & Earle, Sole Agents, Unique Tracing Cloth Powder. 918 Chestnut St., Philadelphia: Williams, Brown & Earle, n.d. 22.2 cm. x 14.3 cm. Description and price.

VOLUME: 394

1. Aspinall's Enamel Works, London, Advertisement for Aspinall's Enamel. New Cross, London: Aspinall's Enamel Works, n.d. 14.3 cm. x 22.2 cm., illus., colour. Printed on blotting paper sample.

2. The Ault & Wiborg Co., Cincinnati, New York, Chicago, Eureke... The Most Intense Black. Cincinnati: The Ault & Wiborg Co., [1894]. 29.8 cm. x 22.4 cm. Advertisement for black paper colouring.

(Vol. 394 cont'd)

3. Benrath & Franck, Gewichstes Papier. Gleve Muhle, Duren, Rheinpreussen: Benrath & Franck, n.d. 15.8 cm. x 10.1 cm. Advertisement, printed in German, on paper sample.

4. Charles Goodall & Son, Ltd., Sizes of Envelopes. London: Charles Goodall & Son, Ltd., n.d. 44.5 cm. x 54 cm. illus. Printed both sides.

5. Crane Bros., Manufacturers of "Gold Medal Linen" Record Papers, World's Columbian Exposition Register. Westfield, Mass.: Crane Bros., 1893. 60.6 cm. x 48.3 cm., illus., colour. 1 large folded leaf, 4 sides, each identically printed; 4 unused register pages.

6. The Dayton Mfg. Co., Every Description of Car Furnishings, Switch & Car Locks, Railway Lamps.... Dayton, Ohio: The Dayton Mfg. Co., n.d. 10.2 cm. x 23.8 cm., illus. Advertisement printed on blotting paper.

7. De Vriendt, André, Engineer, Waste Paper & Shavings Guaranteed Free from Wood Pulp Carefully & Specially Selected for the American Mills. 150-164, Rue Fonsny, Brussels, Belgium: André De Vriendt, n.d. 8 cm. x 11.8 cm.

8. Harrison & Co., Mathematical & Surveying Instruments, Special Line. Blue Shade Tracing Paper. No. 340. 258, St. James' St., Montreal: Harrison & Co., n.d. 15.1 cm. x 12.5 cm. Advertisement printed on paper sample. Prices per roll.

9. McKee Publishing Co., Buffalo, McKee's New Standard Shorthand. Ellicott Square, Buffalo: McKee Publishing Co., n.d. 31.9 cm. x 21.1 cm., illus. Shows alphabet & principles of shorthand.

10. Metallic Flexible Tubing Co., Interwoven Metallic Flexible Tubing. 254 South Second St., Philadelphia: Metallic Flexible Tubing Co., n.d. 27.6 cm. x 21.7 cm., illus.

11. Pomeroy's Inks Will Last for Ages. n.p.: n.d. 19.6 cm. x 16.4 cm., illus.

12. Skien Cellulosefabrik, Extra Strong and Clean Sulphite. Skien, Norway: Skien Cellulosefabrik, n.d. 23.9 cm. x 32.3 cm., colour.

(Vol. 394 cont'd)

13. a.b. Skotsely Cellulosefabrik, [2 Paper Samples]. Skotselven, Norway: Skotsely Cellulosefabrik, n.d. 25 cm. x 35 cm. Paper made in Randsfjord Paper Mill.

14. Van Houten[Co], Van Houten's The Original Cocoa. [Holland]: Van Houten [Co.], n.d. Lith. Amand Amst. 23.3 cm. x 37.9 cm., colour. Advertisement printed on thin "White on White" paper.

15. Vereinigte Strohstoff Fabriken, Bleached Straw Pulp. Dresden, Germany: Vereinigte Strohstoff Fabriken, n.d. 26.2 cm., illus., colour. New York Agent: Geo. Hamilton. Chicago Fair Agent: E.G. Otton. Advertisement printed on paper sample.

16. 6 decorative paper table napkins:

    a. Imperial Extract Co., Toronto. 4.3 cm. x 42 cm.

    b. Chicago Exhibition. 41.4 cm. x 41.2 cm.

    c. Music. 35.5 cm. x 34.2 cm.

    d. Playing cards. 34.2 cm. x 35.3 cm.

    e. Holly leaves and berries. 35.3 cm. x 34 cm.

    f. Santa Claus, holly leaves and berries. 35.9 cm. x 35.2 cm. Colour.

VOLUME: 395

1. The Albemarle Paper Mfg. Co., The Original "Electric" Absorbent. Photo Finish "World" Blotting is Perfection. Richmond, Va.: The Albemarle Paper Mfg. Co., n.d. 22.7 cm. x 14.2 cm. Advertisement printed on paper sample.

2. The Barber & Ellis Co., Ltd., The Danish Bond. Toronto: The Barber & Ellis Co., Ltd., n.d. 22.5 cm. x 14.5 cm. Advertisement printed on paper sample.

(Vol. 395 cont'd)

3. Joynson [Co.?], Kent, London, Paris, Berlin, Vienna, Joynson Drawing Paper. Kent: Joynson [Co.?], n.d. Advertisement printed on paper sample.

4. Leonar-Werke Arndt & Lowengard, Papiere und Postkarten. Wandsbek: Leonar-Werke Arndt & Lowengard, [1908]. 24.6 cm. x 19.7 cm. Lists and describes various types of paper manufactured by company. In German.

5. Parsons Paper Co., Old Hampden Bond. Holyoke, Mass.: Parsons Paper Co., n.d. 30.3 cm. x21.6 cm. Advertisement printed on paper sample. Lists colours, dimensions and weights.

6. Wesley Chapel, Nottingham, Special Religious Services. Sermons.... Nottingham: Wesley Chapel, 1850. 2.2 cm. x 14.5 cm. J. Howitt, Printer. Lists dates, times, ministers for 9 days.

VOLUME: 400

1. Mechanics' Bank, Committee of Shareholders, [Announcement of Meeting of Creditors and Shareholders]. Montreal: Mechanics" Bank, 1880. 26.5 cm. x 20.7 cm. Committee Members: Charles Garth, Thos. D. Hood, W. Weir, J.G. Guimond, H.M. Perrault, W. Norris.

2. The Sovereign Bank of Canada, [Announcement of Branch Opening in Stratford]. Montreal: The Sovereign Bank of Canada, 1906. 27.7 cm. x 42.6 cm. Lists 67 branches in Canada.

VOLUME: 411

1. E. Howard Watch & Clock Co., New York. Life Insurance Co.'s Building, New York. 41 Maiden Lane, N.Y.: E. Howard Watch & Clock Co., 1898. 38.1 cm. x 22.8 cm., illus. Description of clock towers and mechanisms. Testimonial from N.Y Life Insurance Co.

(Vol. 411 cont'd)

2. Veduta Delle Due Torri di Bologna. Bologna: n.d. 54.4 cm. x 42.8 cm., illus. Engraving, scale drawings and description of tower.

VOLUME: 413

1. The Graphic, Bird's-Eye View of London As Seen From a Balloon, 1884. Drawn by W.L. Wyllie & H.W. Brewer. London: The Graphic, 1884. 90.4 cm. x 122.0 cm., illus. Large engraving. supplement to "The Graphic", May 31, 1884.

2. Illustrated London News, London from the South Side of the Thames. London: Illustrated London News, 1861. 56 cm. x 144 cm., illus. Large engraving. Supplement to "Illustrated London News," Feb. 9, 1861.

VOLUME: 420

1. Hill, William R., Bookseller & Importer, Tonetti's Masterpiece of Columbus. Pure Bronze. 5 & 7 Monroe St., Chicago: William R. Hill, n.d. 13.3 cm. x 10.2 cm., illus. Advertisement for reproduction plaque.

2. Lenox Library, New York, The Letter of Columbus... Reprinted from the Original Editions in the Lenox Library. New York: Lenox Library, 1892. 17.8 cm x 11.3 cm. Advertisement for reproduction.

VOLUME: 424

1. [Elliott, Thomas ?], Patent Arrangements to Prevent Boiler Explosions, Etc. n.p.: n.d. 21.5 cm. x 25.4 cm., illus. Detailed section drawings. Valves.

(Vol. 424 cont'd)

2. F. McLewee & Son, Steam Specialties & Railway Supplies, The McLewee New Imporved Automatic Safety Water Gauge. 25 Waverly Place, New York: F. McLewee & Son, n.d. 30 cm. x 22.3 cm., illus.

3. H. Belfield & Co., Universal Check Valve. Pat. 1891. 435 North Broad Street, Philadelphia: H. Belfield & Co., [1899]. 22.9 cm. x 14.9 cm., illus. Description & detailed drawings Price list.

4. Standard Pneumatic Tool Co., "Little Giant" Pneumatic Blow-Off Cock... Locomotive Boilers. 2 Broadsides. 1535-1536 Marquette Building, Chicago: Standard Pneumatic Tool Co., n.d.

    a. 28.8 cm. x 22.9 cm., illus.

    b. 31.7 cm. x 23.7 cm., illus., colour.

    Rubber stamp: "John D. Hurley, General Agent."

5. Kimball's Improved Low-Water Indicator. 3 Broadsides. n.p.: n.d.

    a. 40.1 cm. x 29.6 cm., illus. Section drawings

    b. 20.2 cm. x 12.8 cm. Suggestions for applying.

    c. 25.6 cm. x 19.2 cm. Description.

6. Northley's Steam Pump Works, Northley's Patent Automatic Low-Water Indicator for Steam Boilers. Toronto: Northley's Steam Pump Works, n.d. 88.8 cm. x 29.7 cm., illus., colour. Illustration About 3/4 Size.

VOLUME: 425

1. Harris, E.W., The Harris Fire-Door. Palisade, Nevada: E.W. Harris, n.d. 11.1 cm. x 19.7 cm., illus. Description and detailed drawing.

(Vol. 425 cont'd)

2. [Master Mechanics' Assoc.], Committee, Prevention of Dangerous Escape of Live Coal and Sparks from Locomotive Ash Pans. U.S.A.: Master Mechanics' Assoc., [1888]. 43.4 cm. x 15.5 cm. Committee Members: G.W. Ettenger, E.D. Anderson, W.H. Thomas.

VOLUME: 427

1. Purcell, William, Janitor, Master Car Builders' Club Rooms, Models Taken Care of and Exhibited. 113 Liberty St., N.Y.: William Purcell, n.d. 6.8 cm. x 11.2 cm., illus. Business card.

2. Smith, Geo. D., The Literary Collector. New York: Geo. D. Smith, [190?]. 22.3 cm. x 14.1 cm. Advertisement and subscription form.

3. T.S. Arthur & Son, Arthur's Home Magazine. Philadelphia: T.S. Arthur & Son, 1887. 21.4 cm. x 15 cm. Advertisement for magazine.

VOLUME: 428

1. Douglas Sunday School, [Montreal], Supoena. Douglas Bible Study Court Special Section of Our Pupils, Teachers, Officers and Friends. Rally Day Services. [Montreal]: Douglas Sunday School, [1910]. 18 cm. x 20.3 cm., colour. Invitation to Rally Day Services.

2. Sterlingworth Railway Supply Co., Easton, Pa., New York, Montreal, Chicago and Savannah, Ga., The Sterlingworth Rolled Steel Brake Beam. Easton, Pa.: Sterlingworth Railway Supply Co., n.d. 35 cm. x 22.9 cm., illus., colour. Quotes surveys that show extent of Sterlingworth Brake Beam usage.

VOLUME: 429

1. Dominion of Canada, Province of Ontario, County of Hastings, City of Belleville, Summons to Witness. Belleville: 1889. 17.7 cm. x 21.3 cm. Addressed to Lena Lazier. "William Doyle did Indecently Expose his Person."

2. Smith Bros., Wolverhampton, The "Acme" Deed Box & Travelling Trunk Handle (Registered) and Tinmens' Furniture in General. 112, Coleman St., Whitmore Reans, Wolverhampton: Smith Bros., n.d. 7.5 cm x 11.3 cm. Advertising card.

3. Chautauqua Literary and Scientific Circle, Class of 1890. 2 membership applications.

   a. John Davis Barnett,

   b. Frederic Alfred Barnett;

   Both of Port Hope, Ontario, Canada. 21.8 cm. x 13.7 cm., annotated. Each bears rubber stamp: "C.K.S.C. Canada. L.C. Peake, Secy. Drawer 2559 Toronto".

VOLUME: 431

1. Coffin, C.E., The Gist of Whist. Prospectus. New York: William Freeman, n.d. 21.7 cm. x 9.2 cm.

2. Freeman, William, Poker Points. Decisions. Prospectus. New York: William Freeman, n.d. 21.5 cm., x 9.2 cm., illus.

3. The United States Printing Co., Cincinnati, Duplicate Whist "National" Method. Congress Playing Card Sets. Cincinnati: The United States Printing Co., 1892. 11.3 cm. x 15.2 cm., illus. Advertisement. Prices.

4. The United States Printing Co., Russell & Morgan Factories, Cincinnati, [Testimonial Letter from Geo. W. Robson]. Cincinnati: The United States Printing Co., 1893. 30.2 cm. x 24 cm., illus.

VOLUME: 433

1. Deshong, Maurice, Handball. Spaulding's Athletic Library. Vol. 2, No. 1. Prospectus and order form. Chicago: A.G. Spaulding & Bros., n.d. 22.8 cm. x 15.1 cm.

2. Young, Franklin K., and Howell, Edwin Co., The Grand Tactics of Chess. Prospectus. n.p.: [1898]. 14.6 cm. x 8.2 cm.

VOLUME: 436

1. The Brunswick-Balke-Collendar Co., Chicago, New York, St. Louis, Cincinnati, The Mint Bowling Alley. Chicago: The Brunswick-Balke-Collendar Co., n.d. 27 cm. x 40.7 cm., illus.

2. Central Distributing Co., Buffalo, Steel Balls. They Are Now Use for All Purposes. Buffalo: Central Distributing Co., n.d. 16.7 cm. x 10.2 cm., illus. Pan-American Exposition lists uses for steel balls.

3. Milton Bradley Co., Game of Mounting the Camel in Cairo Street. Springfield, Mass.: Milton Bradley Co., 1893. 32.4 cm. x 12.7 cm., illus. Advertisement for game similar to "Retailing the Donkey".

VOLUME: 447

1. Rice, William, Lingua Obscura: A New Syllabic System of Cipher-Writing. London: William Rice, n.d. 19.3 cm. x 12.8 cm. Testimonials.

VOLUME: 450

1. Curwen, John, The Home Modulator or Pointing Board for Teaching Tunes in the Tonic Sol-Fa Method of Singing. London: Tonic Sol-FA Agency, n.d. 35.4 cm. x 21 cm.

(Vol. 450 cont'd)

2. Reményi, Edouard and Beale, H.W.A., Liberty Hymn Dedicated to the People of the United States. Cleveland: 1880. Leader Print, Cleveland. 21 cm. 11.7 cm. Consists of hymn words, announcement of first performance, and notes where copies may be obtained.

VOLUME: 452

1. In Congress, July 4, 1776 The Unanimous Declaration of the Thirteen United States of America. n.p.: n.d. 56.8 cm. x 41.7 cm. Facsimile of Declaration of Independence.

2. The Roll of Battle Abbey, A.D., 1066. n.p.: [1887]. 51.2 cm. x 41.1 cm. Facsimile list of names.

3. Table The Fourth. Golden Period of the Roman Monarchy (to 180 After Christ). The Fall of Rome. The West-European States Originate in the Great Migration of Nations. From 30 Before Christ to 476 After Christ. n.p.: n.d. 45.5 cm. x 6.5 cm.

VOLUME: 454

1. Her Majestys' Jubilee. The National Anthem Newly Arranged and Harmonized by Dr. E.J. Hopkins. London: Weekes & Co., n.d. 19 cm. x 14.2 cm. Consists of words and music.

VOLUME: 455

1. Anfield Lawn Tennis Club, Concert. Derby Hall, Tue Brook: Anfield Lawn Tennis Club, 1888. 41.7 cm. x 32.5 cm., illus., Colour. Programme decorated with colourful oriental figures.

(Vol. 455 cont'd)

2. Berger Family Concerts. Programme. n.p.: [1878]. Wm. P. Thompson, Printer. 22.6 cm. x 8.9 cm.

3. B.B.A. Concert.... Programme. Stratford, Ont.: 1882. Herald Steam Print. 26.3 cm. x 14 cm., illus.

4. Central Methodist Church, Sacred Concert. Programme. Stratford, Ont.: Ladies Aid, Central Methodist Church, 1900. 23 cm. x 14.2 cm.

5. Church of the Messiah, Service of Song. Order of Service. n.p.: Church of the Messiah, 1892. 22.3 cm. x 14.9 cm., annotated.

6. Collegiate Institute Literary Society, Entertainment.... Program. [Stratford, Ont.]: Collegiate Institute Literary Society, 1892. 26.7 cm. x 13.3 cm.

7. Congregational Church, Concert. Programme. n.p.: 1889. The Hearld Print. 20.7 cm. x 8.8 cm.

8. Elm St. C.L.S.C., Programme. Musical & Literary Entertainment. n.p.: n.d. 21.4 cm. x 13.3 cm.

9. ...Entertainment...St. James' School House.... Program. n.p.: n.d. Hearld Printery. 20.6 cm. x 15 cm.

10. Ethical Society, Music Programmes. The Lichtenstein String Quartet. n.p.: n.d. 19.9 cm. x 13.7 cm. Lists programmes for 13 concerts, Sept. 25 - Dec. 18.

11. Great Western Railway, Stafford Road Institution Soiree. Programme of Entertainments. [England]: 1859. 25.9 cm. x 20.5 cm. On the Programme: "Song...Bonnie Dundee... Master Barnett." "Exhibition of Magie Lantern, and Descriptions... Mr. Barnett.

12. The Harold Jarvis Concert' Programme. Stratford, Ont.: 1896. Pratt & Son, Printers. 25.3 cm. x 10.9 cm.

13. The Harvard Quartette Concert Co., Program. Boston: [1893]. Carl H. Heintzmann, Printer, Boston. 22.6 cm. x 14.7 cm., annotated.

(Vol. 455 cont'd)

14. King's Weigh House Church, Organ Recitals by Mr. W. Wolstenholme, Mus. Bac. Oxon. London: n.d. 22 cm. x 14 cm. Lists programmes for four recitals.

15. Lyste of Pieces... at Ye Old Folkes Concert... Midland.... Midland, [Ont.]: 1892. Printed at "Free Press" Office. 23.3 cm. x 17.6 cm., annotated. Concert Programme.

16. Maclagan, Dr., The Fifth of the Fall Series of Organ Recitals.... Programme. n.p.: 1878. 15.7 cm. x 10.3 cm., annotated.

17. Mandolin Orchestra, at Y.M.C.A. Hall.... Progamme. [Buffalo]: 1892. 15.8 cm. x 10.7 cm.

18. Master Mechanics' Association, Supply Men, Entertainment.... Programme. Saratoga Springs: Master Mechanics' Association, 1894. 17.6 cm. x 11 cm.

19. Old Virgina Concert and Cake Walk... Ball Room, Chamberlin Hotel.... Program. n.p.: [1899]. 17.6 cm. x 10.9 cm., annotated.

20. Packert, May, Piano Recital by Advanced Pupils of.... Stratford, Ont.: 1904. 20.1 cm. x 23.3 cm. Programme.

21. Packert, May, Piano Recital by Junior & Intermediate Pupils of .... Program. Stratford, Ont.: [1904]. 25.9 cm. x 12.7 cm.

22. People's Palace, Programme of Organ Recitals and Sacred Concert.... London: 1890. Printer: Thomas Poulter & Sons, Ltd., Globe Works, London. 28.9 cm. x 15 cm.

23. Perth Teachers' Association, Programme. Collegiate Institute Auditorium, Oct. 29th. Concert. n.p.: n.d. 14.5 cm. x 19 cm.

24. Programme. Mme. Laura Schirmer-Mapleson Royal and Imperial Court Singer. Stratford, Ont.: 1893. The Hearld, Stratford. 21 cm. x 11.6 cm.

25. Programme. The Original Company of Famous Fisk Tennesseans. Pittsburgh: B.W. Thomas, Manager, [1891]. 21.6 cm. x 9.2 cm., annotated.

26. The Redpath Lyceum Bureau, Boston & Chicago, The Remenyi Grand Concerts, Mr. Edouard Remenyi, The World's Great Violinist. Progamme. Boston: The Redpath Lyceum Bureau, n.d. 23.7 cm. x 14.1 cm., annotated. Bears rubber stamp: "Stratford, Dec. 17, 1891".

(Vol. 455 cont'd)

27. Trinity Church, St. John, Music... at the Third Anniversary Meeting of the Children Attending the Public Schools in the City of Saint John, 1st August, 1822. St. John: 1822. Henry Chubb, Printer. 32.2 cm. x 20.2 cm. Words for "Hymn for the Occasion."

28. Trinity Methodist Church, Grand Concert. Programme. n.p.: 1913. 22.2 cm. x 12.3 cm.

29. Unity Church, Chicago, Order of Morning Service and Programme of One Hundred and Fifty-Fifth Organ Concert. Chicago: Unity Church, 1894. 21.8 cm. x 14.1 cm., annotated.

30. Weird Music From Kaffir Land. The American Native Choir. Programme. Stratford, Ont.: 1893. Printed at "The Hearld", Stratford. 35.5 cm. x 14.1 cm.

31. Gower Street Epworth League, Literary Dept., Programme. n.p.: n.d. 27.7 cm. x 18 cm. Outlines weekly meetings for three months.

VOLUME: 456

1. At Drury Lane Aladdin See Augustus Harris's Pantdmimes and at the Crystal Palace Cinderella. [London]: n.d. 23.4 cm x 15.4 cm., illus., colour. Advertisement for theatre productions.

2. Hooley's Theatre, Mrs. R.M. Hooley, Lessee, Tenth Annual Scason of E.H. Sothern. An Enemy to the King. New York: Holley's Theatre, 1896. 27.8 cm. x 14.4 cm. Lists play characters and actors' names.

VOLUME: 461

1. Le Phénix Fire & Life French Insurance Companies, Staff Provident Fund. 33, Rue Lafayette, Paris: [After 1889]. Imp. A. Maulde et Cie., Paris. 30.8 cm. x 48 cm. In French and English. Gives sample pages of staff savings books.

(Vol. 461 cont'd)

2. Mutual Reserve Fund Life Association, Graphical Exhibit of the Business Transactions of the Prominent Assessment Life Insurance Companies.... Also Graphical Exhibit of the Cash Accumulations.... n.p.: The Spectator Co., 1889. 29 cm. x 22.4 cm., illus., colour.

3. The Union Insurances Companies Against Fire & For the Human Life, Provident Institutions. 15 rue de la Banque, Paris: After 1887. Imp. A. Maulde & Cie., Paris. 30.8 cm. x 47.9 cm. In French and English. Outlines profit-sharing, etc.

4. Toronto & Nipissing Railway Sick Benefit Society, Special Financial Statement for Four Months Ending April 30th, 1883. n.p.: Toronto & Nipissing Railway Sick Benefit Society, 1883. 20.7 cm. x 22.8 cm.

VOLUME: 464

1. Foss, S.W., The Carriage of the Future. n.p.: n.d. 30 cm. x 41.6 cm., illus. Poem, illustrated by Charles Copeland.

VOLUME: 466

1. Freund, John C., Editor, Souvenir of the Great Music Festival Held in New York. New York: "Music and Drama", 1882. Lithographer, H.A. Thomas, 112 Fourth Ave., N.Y. 40.6 cm. x 55.8 cm., illus. Portraits of 18 musicians.

2. Neale, John, New York, Jenny Lind. New York: John Neale, n.d. 17 cm. x 12.5 cm., illus. Souvenir photo. "Price 10 Cents."

VOLUME: 478

1. The Illustrated News of the World, The Royal Oak Showing the Pedigee of H.R.H. the Duke of York, K.G. London: The Illustrated News of the World, 1893. 83 cm. x 60.2 cm., illus. Pictures of Victoria's 64 descendants.

VOLUME: 492

1. Bulloch, John, Studies on the Text of Shakespeare: with Numerous Emendations. and Appendices. Prospectus. London: Hamilton, Adams, & Co., Edinburgh: David Douglas; Glasgow: James Maclehose; Aberdeen: Alex. Murray, 1878. 19.3 cm. x 25.3 cm.

2. Sachs, Charles, The Works of William Shakespeare. Parallel Edition. Prospectus. Philadelphia: Schaefer & Koradi, [1907]. 29.6 cm. x 22.9 cm.

VOLUME: 498

1. Committee Who Planted the Shakspeare Memorial Oak, Monument to Shakspeare on Primrose Hill. London: n.d. 19.1 cm. x 25 cm. Soliciting contributions for statue.

VOLUME: 533

1. Carus, Paul, The Gospel of Buddha, According to Old Records. Prospectus. Chicago: The Open Court Publishing Co., n.d. 23.8 cm. x 15.2 cm.

VOLUME: 537

1. Dominion of Canada, Meteorological Service, Weather Map. 2 copies:

   a. Sept. 7, 1920.

   b. Sept. 16, 1920.

   Toronto: Dept. of Marine and Fisheries, 1920. each 40.7 cm. x 27.7 cm., illus., colour. Gives map of North America, forecasts for various regions, and weather statistics from various weather stations.

VOLUME: 543

1. Freer, Paul C. And Strong, Richard P., Editors, The Philippine Journal of Science. Prospectus. Manila: Philippine Journal of Science, 1909. 30.4 cm. x 15.1 cm. Gives specimen contents of recent numbers.

VOLUME: 547

1. Atterbury, W.W., How Can The Railroads Promote the Return of Prosperity? Philadelphia: Pennsylvania Railroad System, 1921. 63.4 cm. x 39 cm. Address before annual convention of National Vehicle and Implement Association, Congress Hotel, Chicago, Illinois.

VOLUME: 554

1. R.D. Richardson, Toronto, Sadleir's Teachers' Index and Filing Cabinet. Pat. 1891. 39 King Street East, Toronto: R.D. Richardson, n.d. 27.8 cm. x 21.3 cm., illus.

John Davis Barnett

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Indexes to volumes 1 - 50

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The first index is an alphabetical lisr of people, places, projects and ma erials.

The second index is a more detailed description of the contents of each volumes. It includes subject headings, the names of authors, architects and engineers and their projects. The index also contains the name of companies, professional bodies and common trade names. This unified index covers the trade catalogues, clippings, emphemera, photographs, drawings and broadsides.

abustments, bridge	Vol. 9
Acme Cement Plaster Co. Salina, Kansas and Chicago	Vol. 13
acoustics	Vol. 39
Adamant Manufacturing Co. Syracuse, N.Y. and Toronto	Vol. 13
Adams Company. Dubuque, Iowa	Vol. 25
Adams, Henry	Vol. 10
Aikenhead & Crombie. Toronto	Vol. 19
alarm locks	Vol. 19
alarm, fire	Vol. 29
alloys and alloy steels	Vol. 25
Alphons Custodis Chimeny Construction Co. New York	Vol. 34
altars and altar cloths	Vol. 50
American Bridge Co. Chicago	Vol. 1, 2, 6, 11
American Cement Co. Egypt, Pa. and Philadelphia	Vol. 13
American Enameled Brick & Tile Co. South River N.J. and New York	Vol. 14
American Hydraulic Stone Co. Denver Colo.	Vol. 30
American Iron and Steel Works (Jones & Laughlins, Ltd.), Pittsburgh and Chicago	Vol. 24
American Machinery Company. Detroit and Grand Rapids, Mich.	Vol. 32
American Magneto-Electric Light Company. New York	Vol. 38
American Steel & Wire Co. Chicago, New York, *[etc.]*	Vol. 19, 33
American Wire Glass Manufacturing Co. Tacony, Philadelphia	Vol. 16
Anaglypta	Vol. 36
Androvette (Geo. E.) & Co. Chicago	Vol. 17
Anti Dry-Rot Company. London	Vol. 31
anvils	Vol. 24, 26
aqueducts	see bridges
arc lighting	Vol. 38
arched bridges	see bridges, arched
arched iron roofs	Vol. 28
arches and archways, entrance	Vol. 33
arches, brick (fire-proof construction)	Vol. 29
arches, concrete (plain and reinforced)	Vol. 5, 30
arches, corrugated iron (fire-proof ceiling construction)	Vol. 28, 29
arches, iron and steel (bridge construction)	Vol. 10

Barnard (J.) & Sons. London	Vol. 17
Barry, J. Wolfe	Vol. 2
Barry, Sir Charles	Vol. 40
bascule bridges	Vol. 2
Batten Patent Automatic Balcony Fire Escape (John Batten, Pittsburgh)	Vol. 29
Battle, Estate of John. Thorold, Ont.	Vol. 13
Bazalgette, Sir Joseph	Vol. 4, 6
Beach, Henry L. Montrose, Pa. and New York	Vol. 32
beams, reinforced concret	Vol. 30
beams, rolled iron and steel	Vol. 10, 24
Bear (B.) & Co. Doon, Ont.	Vol. 11
Beck (Fr.) & Co. New York	Vol. 36
Bell, David. Buffalo, N.Y.	Vol. 27
bell-towers, church	Vol. 49
Berlin Iron Bridge Co. East Berlin, Conn.	Vol. 1, 28
Bernstein Electric Company. Boston	Vol. 38
Berry & Orton Co. Philadelphia	Vol. 32
Bessemer, Henry	Vol. 20
Bessemer process	Vol. 22
Bethell process	Vol. 31
Bethehem Steel Company. South Bethlehem, Pa.	Vol. 20
Birch (John) & Co. Liverpool and London	Vol. 20, 24
Birge (M.H.) & Sons. Buffalo, N.Y.	Vol. 36
blacksmiths' tools and shops	Vol. 26
Blakeslee Manufacturing Co. Cleveland, Ohio	Vol. 26
blast furnaces	Vol. 21
blinds, window	Vol. 16
block machinery	Vol. 32
blooming mills	Vol. 24
blowers	Vol. 26
Bohler Bros. & Co. Sheffield, England	Vol. 22
Boller, Alfred P.	Vol. 1, 2
Bolling & Lowe. London	Vol. 20, 24, 28, 32
Bollman's (Wendel) Iron Suspension Truss Bridge	Vol. 6
boring machines	Vol. 32
Boston Fire Tests, 1891	Vol. 29
Bouch, Sir Thomas	Vol. 1
Boughton, J.W. Philadelphia	Vol. 36
Bouscaren, G.	Vol. 11
Brady (Frederick) & Co., Ltd. London, Liverpool and Glasgow	Vol. 28, 37
brackets, cast and wrought iron	Vol. 18
Bradley Company Syracuse, N.Y.	Vol. 27

Battersea Bridge, London, England. (Sir Joseph Bazalgette, eng.) Vol. 4
Bollman's Iron Suspension Truss Bridge, Harper's Ferry, Md. Vol. 6
Brittania Tubular Bridge, over the Menai Staits near Bangor, Wales. (Robert Stephenson, eng.) Vol. 5
Brooklyn Bridge, over the East River, New York (John A. Washington A. Roebling, eng.) Vol. 6
Cairo Bridge, over the Ohio River, Cario, Ill. Vol. 9
Clifton Suspension Bridge, over the Avon River, Bristol, England. (I.K. Brunel, eng.) Vol. 6
Connecticut Ave. Bridge, over Rock Creek, Washington, D.C. Vol. 5
Conway Suspension Bridge, over the River Conway, Wales. (Thomas Telford, eng.) Vol. 6
Conway Tubular Bridge, over the River Conway, Wales. (Robert Stephenson, eng.) Vol. 5
Coteau Bridge, over the St. Lawrence River, P.Q. (George A. Mountain, eng.; Dominion Bridge Co., Montreal, contr.) Vol. 1, 2
Desjardins Canal swing bridges, Dundas, Ont. (William Fairbairn & Sons, eng.). Vol. 2
Douro River Viaduct, near Operto, Portugal. (A. Eiffel & Co., eng. and contr.) Vol. 4
Eads Bridge, over the Mississippi River, St. Louis, Mo. (James B. Eads, eng.) Vol. 4
East River Suspension Bridge, New York (L. Lefferts Buck, eng.; American Bridge Co., contr.) Vol. 6
English Cannel Bridge [proposed] Vol. 3
Firth of Forth Bridge, Scotland, (Sir Benjamin Baker and Sir John Fowler, eng.) Vol. 7
Fraser River Bridge, B.C. (Charles C. Schneider, eng.) Vol. 1
Halstead Street Lift Bridge, Chicago (J.A.L. Waddell, eng.; Pittsburgh Bridge Co., contr.) Vol. 2
Hammersmith Suspension Bridge, London, England. (Sir Joseph Bazalgette, eng.) Vol. 6
Harlem River Swing Bridge, New York (Alfred P. Boller, eng.; Clarke, Reeves & Co., Philadelphia, contr.) Vol. 2

Hawkesbury River Bridge, New South Wales, Australia (Union Bridge Co., eng. and contr.; Sir John Fowler, consulting eng.) Vol. 1, 9

High Bridge, over the Genesee River, Portage, N.Y. Vol. 11

Kinzua Creek Viaduct, Pa. (Octave Chanute, eng.; Clarke Reeves & Co., Philadelphia, contr.) Vol. 1

Lachine Bridge, over the St. Lawrence River, P.Q. (C. Shaler Smith, eng.; Dominion Bridge Co., contr.) Vol. 1

Lansdowne Bridge, over the River Indus, Sukkur, India. Vol. 7

Bridge London (new and old). Vol. 5

Marent Gulch Trestle, Montana. (C.C. Schneider, eng.) Vol. 11

Marent Gulch Viaduct, Montana. (George S. Morison, eng.; Union Bridge Co., New York, contr.) Vol. 1

Memphis Bridge, over the Mississippi River, Memphis, Tenn. (Geo. S. Morison and Alfred Noble, eng.) Vol. 7, 9

Menai Suspension Bridge, over the Menai Straits, near Bangor, Wales. (Thomas Telford, eng.) Vol. 6

Merchants' Bridge, St. Louis, Mo. (George S. Morison and E.L. Corthel, eng.; Union Bridge Co., New York, contr.) Vol. 1

Middle Road Truss Bridge, over the Etobicoke River, Toronto, Ont. (first reinforced concrete truss bridge in Canada) Vol. 5

Moenchenstein Bridge Disaster (Switzerland) Vol. 9

Monongahela Bridge, Pittsburgh. (Gustav Lindenthal, eng.) Vol. 1

New York and New Jersey Bridge across the Hudson River [proposed]. Vol. 3

Niagara Falls Cantilever Bridge. (Charles C. Schneider, eng.) Vol. 7

Niagara Falls and Clifton Steel Arch Bridge (L. Lefferts Buck, eng.) Vol. 4

Niagara River Steel Arch Bridge (L. Lefferts Buck, eng.) Vol. 4

Niagara Suspension Bridges Vol. 6
Pecos River Viaduct, Comstock, Texas. (Phoenix Bridge Co., eng. and contr.) Vol. 7
Point Bridge, over the Monongahela River, Pittsburgh. (American Bridge Co., eng. and contr.) Vol. 6
Poughkeepsie Bridge, over the Hudson River, Poughkeepsie, N.Y. (Union Bridge Co., eng. and contr.) Vol. 7
Quebec Bridge, over the St. Lawrence River, Quebec City. (Theodore Cooper, eng.) Vol. 7
Quebec Bridge Disaster Vol. 9
Queensboro Bridge, over the Hudson River at Blackwell's Island, New York. (Gustav Lindenthal, eng.) Vol. 7
Red Rock "Needles" Bridge, over the Colorado River, Calif. (designed by J.A.L. Waddell, eng.; Phoenix Bridge Co., contr.) Vol. 7
Rock Island Bridge, over the Mississippi River, Ill. (Phoenix Bridge Co., Phoenixville, contr.) Vol. 2
Royal Albert Bridge, Montreal [proposed]. (Charles Legge, eng.) Vol. 1
Tay Bridge, over the Firth of Tay, Perth, Scotland. (Sir Thomas Bouch, eng.) Vol. 9
Tay Bridge Disaster Vol. 9
Thames River Draw-bridge, New London, Conn. (Alfred P. Boller, eng.) Vol. 2
Tower Bridge, London, England. (J. Wolfe Barry, eng.) Vol. 2
Van Buren Street Rolling Lift Bridge, Chicago Vol. 7
Verrugas Viaduct, Peru. (L. Lefferts Buck, eng.) Vol. 7
Victoria Jubilee Bridge, Montreal Vol. 1
Victoria Tubular Bridge, Montreal. (Alex M. Ross, eng. and Robert Stephenson, consulting eng.) Vol. 5
Welland Canal swingbridges, Ont. (William Fairbairn & Sons, eng.) Vol. 2
bridges, arched (iron and steel) Vol. 4
bridges, arched (masonry and concrete) Vol. 5
bridges, arched truss (iron and steel) Vol. 1
bridges, arched truss (wooden) Vol. 11

bridges, bascule	Vol. 2
bridges, bow-string girder	Vol. 1
bridges, cantilever	Vol. 7
bridges, cantilever (plate-girder deck)	Vol. 2
bridges, cast iron arch	Vol. 4
bridges, combination wood and iron truss	Vol. 11
bridges, concrete	Vol. 5
bridges, crib	Vol. 11
bridges, draw (iron and steel)	Vol. 2
bridges, (wooden) draw	Vol. 11
bridges, ferry	Vol. 2
bridges, Fink truss	Vol. 1
bridges, flying	Vol. 6
bridges, foot-	Vol. 3, 5, 6
bridges, girder (lattice)	Vol. 1
bridges, girder (plate)	Vol. 2
bridges, highway	Vol. 1-11
bridges, Howe truss	Vol. 11
bridges, iron and steel	Vol. 1-11
bridges, 'jack-knife'	Vol. 2
bridges, lattice-girder and truss (iron and steel)	Vol. 1
bridges, lattice-truss (wooden)	Vol. 11
bridges, lift	Vol. 2
bridges, masonry (brick and stone)	Vol. 5
bridges, military	Vol. 3
bridges, movable	Vol. 2
bridges, Paoli truss (lenticular truss)	Vol. 1
bridges, plate-girder	Vol. 2
bridges, pontoon	Vol. 3
bridges, Post truss	Vol. 1
bridges, Pratt truss	Vol. 1
bridges, railway	Vol. 1-11
bridges, stone	Vol. 5
bridges, suspension	Vol. 6
bridges, swing	Vol. 2
bridges, temporary	Vol. 3
bridges, timber	see bridges, wooden
bridges, Town lattice	Vol. 11
bridges, travelling	Vol. 2
bridges, trestle (iron and steel)	Vol. 1
bridges, trestle (wooden)	Vol. 11
bridges, truss (combination wood and iron)	Vol. 11
bridges, truss (iron and steel)	Vol. 1, 2
bridges, truss (reinforced concrete)	Vol. 5

bridges, truss (wooden)	Vol. 11
bridges, tubular arch	Vol. 4
bridges, tubular girder	Vol. 5
bridges, tubular truss	Vol. 1
bridges, Warren truss	Vol. 1
bridges, Whipple truss	Vol. 1
bridges, wooden	Vol. 11
bridges, wooden cantilever	Vol. 7
bronze casting	Vol. 25
bronzework, architectural	Vol. 18
Brooklyn Theatre Fire, 1876	Vol. 29
Brunel, I.K.	Vol. 4, 6
Buck, L. Lefferts	Vol. 4, 6, 7
Buckeye Engine Company. Salem, Ohio	Vol. 32
Buffalo Forge Co. Buffalo, N.Y.	Vol. 26
building /general and miscellaneous items/	Vol. 39
building components and materials	Vol. 12-36
building fronts, cast iron and sheet-metal	Vol. 18
building materials /general items/	Vol. 39 see also specific materials
building materials, fire-resistant	Vol. 29 see also specific materials
building restoration	Vol. 41
building stone	Vol. 12
bunsen burners	Vol. 37
Burges, William	Vol. 40
burlap (wall covering)	Vol. 36
Burlington Blind Co. Burlington, Vt.	Vol. 16
Burrowes (E.T.) Co. Portland, Maine	Vol. 16
Butters Lumber Co. Boardman, N.C.	Vol. 31
cabinet hardware	Vol. 19
cabinetwork	Vol. 31
cages, wire (animal and bird)	Vol. 19
caissons	Vol. 9
campanili	Vol. 49
Canada Foundry Co., Ltd. Toronto	Vol. 18, 25
Canadian Cement and Concrete Review. Toronto	Vol. 13
Canadian General Electric Co. Peterborough, Ont. and Toronto	Vol. 38
Canadian Portland Cement Co., Ltd. Deseronto, Ont.	Vol. 13
Candles, candlesticks and candlabra	Vol. 37
Cant, Gourlay & Co. Galt, Ont.	Vol. 32

cantilever bridges	see bridges, cantilever
capitals, cast and wrought iron	Vol. 18
capitals, stone and artificial stone	Vol. 12
Carbolineum Wood Preserving Co. New York	Vol. 31
Carnegie, Phipps & Co., Ltd. Pittsburgh	Vol. 20
Carnegie Steel Co., Ltd. Pittsburgh	Vol. 21
Carpenter Steel Co. Reading, Pa. and Detroit	Vol. 22
carpentry	Vol. 31
carving tools and machines, wood	Vol. 32
cast iron	Vol. 20, 25 see also iron
cast ironwork, architectural	Vol. 18
cast steel	Vol. 22, 25 see also steel
casting (metals)	Vol. 25
castings, ornamental iron	Vol. 18
cathedrals	Vol. 43, 44 see also churches
cathedrals /by location/	
Canada	Vol. 43
Europe	Vol. 44
Great Britain	Vol. 43
United States	Vol. 43
ceiling coverings	Vol. 36
ceilings, corrugated iron, arched	Vol. 29
ceilings, embossed sheet-metal	Vol. 18
cement	Vol. 13
Cement Age. New York	Vol. 30
cement kilns	Vol. 13
cement mixers	Vol. 13
Central Bridge and Engineering Company, Ltd. Peterborough, Ont.	Vol. 27
ceramic tile	Vol. 15
Chambers Glass Company. New Kensington, Pa.	Vol. 16
chancel screens	Vol. 50
chandeliers	Vol. 37
Chanute, Octave	Vol. 1
chapels	Vol. 45
Chester Steel Castings Company. Chester, Pa. and Philadelphia	Vol. 22
Chicago Automatic Fire Escape and Manufacturing Company	Vol. 29
Chicago Fire, 1871	Vol. 29
chimney-pieces	Vol. 35
chimneys; chimney sweeping	Vol. 34

choir screens and stalls	Vol. 50
church decoration and furniture	Vol. 50
church entrances and porches	Vol. 49
church gateways	Vol. 33
church plate	Vol. 50
church spires and towers	Vol. 49
church vestments	Vol. 50
church windows (stained glass)	Vol. 17
churches	Vol. 45-50 see also cathedrals
churches [general and miscellaneous items]	Vol. 45
churches [by location]	
Canada	Vol. 48
Europe	Vol. 48
Great Britain	Vol. 45, ~~46, 47~~ - 47
Great Britain - London	Vol. 47
United States	Vol. 48
churches, iron	Vol. 28
circular saws, woodworking	Vol. 32
circular saws, metalworking	Vol. 26
clapboarding, iron and steel	Vol. 28
Claridge's Patent Asphalte Company, Ltd. London	Vol. 28
Clarke, Reeves & Co. Philadelphia	Vol. 1, 2, 11
clay	Vol. 14
clay, fire	Vol. 14, 29
clay roofing tile	Vol. 28, 29
Cleveland Stone Company. Cleveland, Ohio	Vol. 12
Cliff (Joseph) & Sons. Wortley, near Leeds and London	Vol. 14, 34
Clinton (Charles W.) and Russell (William Hamilton). New Yrok	Vol. 40
cofferdams	Vol. 9
columns, cast iron (decorative)	Vol. 18
columns, concrete	Vol. 30
columns, iron and steel	Vol. 10, 24, 28
columns, stone and artificial stone	Vol. 12
Colyille (David) & Sons. Motherwell, Scotland	Vol. 36
composition relief materials	Vol. 36
concrete	Vol. 13, 30
Concrete. Detroit, Mich.	Vol. 13
concrete arches	Vol. 5
concrete, architectural	Vol. 30
concrete block and block machinery	Vol. 30

concrete construction (plain and reinvorced)	Vol. 30
Concrete Engineering. Cleveland, Ohio	Vol. 30
concrete (fire-proof construction)	Vol. 29, 30
concrete manufacture	Vol. 13
concrete mixers	Vol. 13
concrete reinforcement	Vol. 30
concrete-stone	Vol. 12, 30
Continental Bridge Co. Philadelphia	Vol. 1
Cook, Clarence	Vol. 36
Cooper, James. Montreal	Vol. 37
Cooper, Theodore	Vol. 1, 7, 11
copper, sheet	Vol. 18, 28
cornices, sheet-metal	Vol. 18
corrugated iron	Vol. 24
corrugated iron roofing, siding and ceilings	Vol. 28, 29
Cort, Henry	Vol. 20
Cottam & Co. London	Vol. 18
Cowan & Co. Galt, Ont.	Vol. 32
Cox & Sons. London	Vol. 17, 37, 50
Cramp Iron and Steel Co., Ltd. Sydney, N.S.	Vol. 20
creosoting	Vol. 31
Crescent Steel Company. Pittsburgh, New York and Chicago	Vol. 22, 26
Creusot Ironworks (Schneider & Co.), France	Vol. 20
Crosthwaite, R.W. London	Vol. 24
Crucible Steel Company of America. Pittsburgh	Vol. 26
cupolas, foundry	Vol. 25
Dartnell, E.F. Montreal	Vol. 13
Davis & Primrose. Leith, Scotland	Vol. 27
Day, William C.	Vol. 12
Detroit Blower Co.	Vol. 26
die forging	Vol. 26
Dierlamm, P. Stratford, Ont.	Vol. 30
Dixon (Joseph) Crucible Company. Jersey City, N.J.	Vol. 25
Dodd, George	Vol. 16, 20, 31
Doings of Expanded Metal, The. Associated Expanded Metal Companies (U.S.)	Vol. 30
domes	Vol. 28
Dominion Bridge Co. Montreal	Vol. 1, 2
Dominion Iron and Steel Co. Sydney, N.S.	Vol. 24
door hardware	Vol. 19
door screens	Vol. 16
doors	Vol. 33
doors, bronze	Vol. 18, 33

doors, fire	Vol. 29
doorways	Vol. 33
doors, wood	Vol. 31, 33
doorways, church	Vol. 49
Doty lamp	Vol. 38
Douglas & McNiece, Montreal	Vol. 37
drapery, window	Vol. 16
drop-forging and drop-presses	Vol. 26
drop-hammers	Vol. 27
drawbridges	see bridges, draw-
dry-rot	Vol. 31
dynamos	Vol. 38
Eads, James B.	Vol. 4
Ebner, Jos. F. London	Vol. 36
Edison Companies, Association of Edison Illuminating Companies	Vol. 38
Edison electric light (Thomas A. Edison)	Vol. 38
Edwards, O.M. Syracuse, N.Y.	Vol. 16
Eiffel (G.) & Co. Paris	Vol. 4
electric lighting	Vol. 38
electric welding	Vol. 26
Ellwood (I.L.) Manufacturing Co. De Kalb, Ill.	Vol. 33
Empire Portable Forge Co. Troy, N.Y.	Vol. 26
encaustic tile	Vol. 15
entrance arches and archways	Vol. 33
entrance gates, gateways and lodges	Vol. 33
entrance halls	Vol. 35
entrances	Vol. 33
entrances, church	Vol. 49
estimating	Vol. 39
exhibition building roofs	Vol. 28
Expanded Metal and Fireproofing Co., Ltd. Toronto	Vol. 16, 29, 33
expanded metal	Vol. 29, 30, 33
eye-bars	Vol. 8, 26
Eyre, Wilson	Vol. 40
fabric wall coverings	Vol. 36
faience, architectural	Vol. 15
Fairbairn, William	Vol. 2, 5
Fairlie (Robert F.) & Co. London	Vol. 32, 37
fan forges and blowers	Vol. 26

fans, exhaust and ventilating	Vol. 26
Favrille glass	Vol. 17
Fawcett, Thos. Co. Leeds, England	Vol. 14
Fay (J.A.) & Co. Cincinatti, Ohio	Vol. 32
fences	Vol. 33
fences, cast and wrought iron	Vol. 18, 33
Fernoline Chemical Co. New York	Vol. 31
Ferracute Machine Co. Bridgetown, N.J.	Vol. 27
Ferris & Miles. Philadelphia	Vol. 27
Finch, W.S. Toronto	Vol. 31
Fink truss bridges	Vol. 1
fire alarms	Vol. 29
fire brick and clay	Vol. 14, 29
fire doors and shutters	Vol. 29
fire escapes	Vol. 29
fire-proof construction	Vol. 29 see also specific materials and building components
Fire Protection. Cincinatti and Chicago	Vol. 29
fire tests	Vol. 29
fireplace chimneys	Vol. 34
fireplaces and fireplace fixtures	Vol. 35
fires - urban, theatre, forest	Vol. 29
Flanagan & Biedenweg Co. Chicago	Vol. 17
floor coverings	Vol. 36
floor slabs, reinforced concrete	Vol. 30
floor tiles	Vol. 15
flooring, bridge	Vol. 9
flooring, fire-proof	Vol. 29
flooring machines	Vol. 32
flooring, parquet	Vol. 36
flooring, wood	Vol. 31, 36
fonts	Vol. 50
footbridges	Vol. 3, 5, 6
forges, portable	Vol. 26
forging; forging tools and machinery	Vol. 26
forgings, iron and steel	Vol. 24, 26
foundations, bridge	Vol. 9
founding and foundries	Vol. 25
Foundry, The. Detroit	Vol. 25
foundry cupolas and equipment	Vol. 25
Fowler, Sir John	Vol. 1, 7
Fox Machine Co. Grand Rapids, Mich.	Vol. 32
Fox Solid Pressed Steel Company. Joliet, Ill. and Chicago	Vol. 22

Hadfield's Steel Foundry Co. Sheffield, England	Vol. 22
Hall & Sons. Buffalo, N.Y.	Vol. 14
halls, entrance and stair	Vol. 35
Hamilton Bridge Works Company, Ltd. Hamilton, Ont.	Vol. 3, 4, 11
hammer-beam roofs	Vol. 28
hammers	Vol. 24, 26
hammers, power	Vol. 27
Handyside (Andrew) & Co., Ltd. Derby, England	Vol. 11
hardware, builders' (plain and ornamental)	Vol. 19
"Harold Smith" Company. Chicago	Vol. 14
Harper's Steel Rope Suspension Bridge (Louis Harper, Aberdeen, Scotland)	Vol. 6
Haye's Patent Fire-proof Steel Lathing	Vol. 29
Heames (W.E.) & Co. Detroit	Vol. 14
hearth tiles	Vol. 15
Heaton, Butler and Bayne. London	Vol. 17
Heuvelman, Haven & Co. New York	Vol. 18, 29
Hodkinson & Clarke. Birmingham, England	Vol. 16
Homestead Steel Works (Carnegie, Phipps & Co., Ltd.), Pittsburgh	Vol. 20
Howe, Brown & Co., Ltd. Chicago	Vol. 22
Howe truss bridges	Vol. 11
Hug, Paul. Paris	Vol. 32
Hurricane Forges	Vol. 26
hygienic building	Vol. 39
Ibbotsen Brothers & Co. Sheffield, England	Vol. 10, 32
Illinois and St. Louis Bridge Company	Vol. 4
Illinois Steel Company. Chicago	Vol. 20, 24
incandescent lighting	Vol. 38
Inglis & Hunter's Iron Works. Guelph, Ont.	Vol. 25
Inigo Jones	Vol. 40
insulation, fire-proof	Vol. 29
interior finish, sheet-metal	Vol. 18
interior finishing materials	Vol. 36
interior woodwork	Vol. 31
interiors, church	Vol. 50
iron buildings, prefabricated	Vol. 28
iron	Vol. 20, 21, 23, 24, 25, 26
iron: angle, bulb, channel, joist, girder and tee iron	Vol. 24

iron casting(s)	Vol. 25
iron castings, malleable	Vol. 20, 24
iron, corrugated	Vol. 24
iron founding and foundries	Vol. 25
iron and glass construction	Vol. 28
iron manufacture	Vol. 20
iron mining	Vol. 21
Iron Molders' Journal. Cincinatti	Vol. 25
iron ore deposits	Vol. 21
iron, pig	Vol. 21
iron roofs	Vol. 28
iron smelting	Vol. 21
iron and steel	Vol. 20-26
iron and steel - American Standard Specifications	Vol. 23
iron and steel - corrosion and preservation	Vol. 23
iron and steel forgings	Vol. 24, 26
iron and steel framed construction and roofs	Vol. 28
iron and steel plates and sections	Vol. 24
iron and steel - properties and tests	Vol. 23
iron and steel, rail	Vol. 24
iron and steel, sheet	Vol. 24
iron and steel works	Vol. 20
iron and steel works: rolling, plate, rail and blooming mills	Vol. 24
Iron Substructure Co. Columbus, Ohio	Vol. 9
ironwork, architectural	Vol. 18
iron works, early	Vol. 20
Jeffrey & Co. London	Vol. 36
Jenney, William le Baron	Vol. 28
jigsaws	Vol. 32
joiners	Vol. 32
joinery	Vol. 31
Jones & Laughlins, Ltd. Chicago and Pitsburgh	Vol. 24
Jones & Willis, Birmingham and London	Vol. 18, 50
Justice (Philip S.) & Co. Philadelphia	Vol. 27
Kahn System (reinforced concrete)	Vol. 30
Kellogg Bridge Co. Buffalo, N.Y.	Vol. 1
Kennard (J.) & Sons Carpet Co. St. Louis, Mo.	Vol. 36
keys	Vol. 19

Keystone Bridge Company. Pittsburgh	Vol. 1, 11
kilns, brick	Vol. 14
kilns, cement, concrete and lime	Vol. 13
Kirkaldy, David	Vol. 23
Kleeman lamp	Vol. 37
knives, machine	Vol. 32
Knowlton & Beach. Rochester, N.Y. and London	Vol. 32
Krupp, Fried. Essen, Germany	Vol. 20, 22
Lamb, J. and R. New York	Vol. 50
lamps	Vol. 37, 38
lamps, blast	Vol. 38
lamps, electric arc	Vol. 38
lamps and lamp-posts, cast and wrought iron	Vol. 18, 37
lamps, oil and gas	Vol. 37
lamps, street	Vol. 37, 38
lamps, tungsten	Vol. 38
lampshades, stained glass	Vol. 17
Lancaster Machine & Knife Works. Lancaster, N.Y.	Vol. 32
Landore Siemens-Steel Company, Ltd. Landore, Wales	Vol. 20, 22, 24
Lane & Bodley. Cincinatti, Ohio	Vol. 32
Lang (H.P.) Co., Ltd. Stratford, Ont.	Vol. 36
lanterns	Vol. 37
Lascelles' (W.H.) Patent Concrete Slab Cottages	Vol. 30
lath, metal	Vol. 29, 30
lathes, stone	Vol. 12
lathes, wood-turning	Vol. 32
lattice bridges	see bridges, lattice
lattice-girders	Vol. 10
leather, imitation (wall covering)	Vol. 36
lecterns	Vol. 50
Legge, Charles	Vol. 1
Lehigh Portland Cement Co. Allentown, Pa.	Vol. 13
Lewis & Rossiter. Pittsburgh	Vol. 24
Libbey Glass Co. Toledo, Ohio	Vol. 16
Life Saving Window Company. New York	Vol. 16
lift bridges	Vol. 2
lighting, artificial	Vol. 37, 38
lighting, electric	Vol. 38
lighting fixtures (plain and decorative)	Vol. 37, 38

lighting fixtures, church	Vol. 37, 38, 50
lighting, gas	Vol. 37
lighting, industrial	Vol. 38
lighting, natural (of buildings)	Vol. 16, 39
lighting, oil	Vol. 37
lime, lime kilns	Vol. 13
lime-lights	Vol. 37
Lincrusta Walton	Vol. 36
Lindenthal, Gustav	Vol. 1, 7
linoleum	Vol. 36
locks and lock-plates	Vol. 19
locomotive parts, iron and steel	Vol. 22, 24, 26
logging	Vol. 31
Long & Allstatter Co. Hamilton, Ohio	Vol. 27
Low Art Tile Works. Chelsea, Mass.	Vol. 15
lumbering	Vol. 31
lych gates	Vol. 33
Macfarlane (Walter) & Co. Glasgow and London	Vol. 18
mansard roofs	Vol. 28
mantels (mantelpieces)	Vol. 35
marble; artificial marble	Vol. 12
marble-working machinery and tools	Vol. 12
Marchand & Morgan. Alliance, Ohio	Vol. 27
masonry, brick	Vol. 14
masonry, stone	Vol. 12
Massey, B & S. Openshaw, Manchester, England	Vol. 27
match-cutting machines	Vol. 32
Mattison (C.) Machine Works. Beloit, Wis.	Vol. 32
Maurer (Henry) & Sons. Maurer, N.J. and New York	Vol. 29
Maw & Co. Broseley, Shropshire, England	Vol. 15
McArthur (Colin) & Co. Montreal	Vol. 36
McCaw, Stevenson & Orr, Ltd. Belfast	Vol. 17
McCully & Miles. Chicago	Vol. 36
McKechnie & Bertram. Dundas, Ont.	Vol. 32
meeting houses	Vol. 45
Mertz's Sons, George. Port Chester, N.Y.	Vol. 31
metal ceilings	Vol. 29, 30
metal lath	Vol. 29, 30
metal shingles and tiles	Vol. 28
Metallic Roofing Co. of Canada, Ltd. Toronto	Vol. 28, 29
metals - properties and tests	Vol. 23
metalwork, architectural	Vol. 18
metalwork, architectural (hardware)	Vol. 19

metalwork, ecclesiastical	Vol. 50
metalworking machinery	Vol. 26, 27
Michigan Bridge and Construction Co. Detroit	Vol. 11
Miles, Frederick B. Philadelphia	Vol. 27
Miller Lock Company. Philadelphia	Vol. 19
Miller & Sons. London	Vol. 37
mineral wool	Vol. 29
mining, iron	Vol. 21
Minton, Herbert	Vol. 15
Minton, Hollins & Co. Stoke-upon-Trent, England	Vol. 15
mirrors	Vol. 16
Mississippi Glass Co. St. Louis, Mo.	Vol. 16
Morison, George S.	Vol. 1, 2, 7
Morrison Bros. Toronto	Vol. 27, 32
mortar	Vol. 13
morticing machines	Vol. 32
Morton (Francis) & Co., Ltd. Liverpool, England	Vol. 28, 33
mosaic glass	Vol. 17
mosaics and mosaic work	Vol. 15
Moseley Iron Bridge and Roof Company. New York	Vol. 28
moulding machines (metal) and casting moulds	Vol. 25
moulding machines (wood)	Vol. 32
mouldings, wood	Vol. 31
moulds, concrete block	Vol. 30
Mountain, George A.	Vol. 1
mural decoration	Vol. 36
Mushet, Robert F.	Vol. 22
Mussens Ltd. Montreal	Vol. 33
nailing machines	Vol. 19
nails	Vol. 19, 24
Nashua Iron and Steel Co. Nashua, N.H.	Vol. 24
National Carbon Co. Cleveland, Ohio	Vol. 38
National Electic Light Association (U.S.)	Vol. 38
Nazareth-Cement Co. Nazareth, Pa. and Philadelphia	Vol. 13
Nes Silicon Steel Co. Rome, N.Y.	Vol. 22
Nevius & Haviland. New York	Vol. 36
New Industrial Light Works. Jersey City, N.J. and New York	Vol. 37
New Rockland Slate Co. New Rockland, P.Q. and Montreal	Vol. 12

New York Stone Contracting Co. Vol. 11
Noble, Alfred Vol. 7
Northrop, Henry S. New York Vol. 18
Northwestern Expanded Metal Co. Chicago Vol. 30
Novelty Ironworks. New York Vol. 18, 20

Ontario Portland Cement Co., Ltd. Blue Lake and Brantford, Ont. Vol. 13
oriels Vol. 16
open-hearth process Vol. 22
Ornamental Wood Company. New York Vol. 31
Osborn Manufacturing Co. New Yrok Vol. 19

Paine Lumber Co., Ltd. Oshkosh, Wis. Vol. 31
Palfreyman (W.H.) & Co. Manchester, England Vol. 23, 26
Palliser, Palliser & Co. New York Vol. 39
pantiles (clay and metal) Vol. 28, 29
Paoli truss bridges (lenticular truss) Vol. 1
parquet flooring and wainscoting Vol. 36
paving tiles Vol. 15
Pedlar Metal Roofing Co. Oshawa, Ont. Vol. 18
Pedlar People Ltd. Oshawa, Ont. Vol. 24
Pennsylvania Wood Preserving Co. Philadelphia Vol. 31
pews Vol. 50
Philadelphia and Boston Fire Brick Co. Boston Vol. 35
Phoenix Bridge Co. Phoenixville, Pa. Vol. 2, 7
Phoenix columns Vol. 10
Phoenixville Bridge Works. Philadelphia Vol. 1
pig iron Vol. 21
pipe, iron and steel Vol. 24, 25
pipes and connections, rain-water Vol. 18, 24
piscinas Vol. 50
Pittsburgh Plate Glass Company Vol. 16
Place, Geo. New York Vol. 26
planers and planing machines, wood Vol. 32
planers, stone Vol. 12
plaster Vol. 13
plasterboard Vol. 29
plasterwork, fibrous Vol. 36
plate-glass Vol. 16
plate mills; iron and steel plate Vol. 24
Pneumatic Company. Indianapolis, Ind. Vol. 25
pneumatic hammers and tools Vol. 27
polishing machines, stone Vol. 12

polishing machines, wood	Vol. 32
porches	Vol. 33
porches and portals, church	Vol. 49
Portland cement	Vol. 13
Portland stone	Vol. 12
Post truss bridges	Vol. 1
Pratt truss bridges	Vol. 1
prefabricated concrete slab construction	Vol. 30
prefabricated iron buildings	Vol. 28
preservative treatments - iron and steel	Vol. 8, 23
preservative treatments - stone	Vol. 12
preservative treatments - wood	Vol. 31
pressed metalwork (stamped sheet metal)	Vol. 18
pressed steel	Vol. 22
presses, brick and tile	Vol. 14
presses, embossing	Vol. 27
presses, forging and trimming	Vol. 26
Prince & Symmons. London	Vol. 37
puddling; puddling furnaces and machines	Vol. 21
Pugin, Augustus Welby	Vol. 40
pulpits	Vol. 50
Q & C Company. Chicago	Vol. 26
quarrying - stone, marble and slate	Vol. 12
Radnor Forges. Radnor, P.Q.	Vol. 20
rail mills, rail restoration	Vol. 24
rail saws	Vol. 26
railings	Vol. 33
railings, cast and wrought iron	Vol. 18, 33
railway car borers, mortisers and tenoners	Vol. 32
railway car-wheel foundry plants	Vol. 25
railway fencing and crossing gated	Vol. 33
Railway Supply Foundry Co. Chicago	Vol. 34
Ransome (Allen) & Co. London	Vol. 32
reinforced concrete construction	Vol. 30
reinforcement, concrete	Vol. 30
Reliance Machine & Tool Works. St. Louis, Mo.	Vol. 14
relief materials (interior decoration)	Vol. 36
Rendall Steel Company. New York	Vol. 21
Rendle (William Edgcumbe) & Co. London	Vol. 16
reredoses	Vol. 50
restoration, building	Vol. 41

Rice Lewis & Son. Toronto	Vol. 35
Richards (Geo.) & Co., Ltd. Manchester, England	Vol. 32
Richards, London & Kelly. Philadelphia	Vol. 32
Richmond & Potts. Philadelphia	Vol. 21
ring oven	Vol. 14
Robbins process	Vol. 31
Robert Graves Company. New York	Vol. 36
Robert Mitchell Furniture Co. Cincinatti, Ohio	Vol. 35
Robinson (Thomas) & Son, Ltd. Rochdale, England	Vol. 32
Roebling, John A. and Washington A.	Vol. 6
rood screens	Vol. 50
roof coverings	Vol. 28
roof crestings and terminals	Vol. 18
roof framing	Vol. 28
roof glazing	Vol. 16
roofing, fire-proof	Vol. 28, 29
roofing slate	Vol. 12, 28
Roots, P.H. and F.M. Cornersville, Ind.	Vol. 26
rolling mills	Vol. 24
rolling-stock parts, iron and steel	Vol. 22, 24
Rose, Joshua	Vol. 26, 32
Ross, Alex M.	Vol. 5
Ross (E.W.) & Co. Fulton, N.Y.	Vol. 32
rotundas, iron and glass	Vol. 28
Rowell (David) & Co. London	Vol. 33
Rownson, Drew & Co. London, England	Vol. 24
Royal Institute of British Architects - opening addresses	Vol. 41
rubber tile	Vol. 36
Russian sheet-iron	Vol. 24
rusting and rust prevention	Vol. 23
Ryrie Bros. Toronto	Vol. 16
St. Louis Expanded Metal Fireproofing Co. St. Louis, Mo.	Vol. 30
St. Maurice Forges. Three Rivers, P.Q.	Vol. 20
safes	Vol. 19
sanders	Vol. 32
sanitary construction and regulations	Vol. 39
sash hardware	Vol. 19
sashes, window	Vol. 16
Saugus Ironworks, Saugus, Mass.	Vol. 20

sawing machines, metal-	Vol. 26
sawing machines, stone	Vol. 12
saws and sawmills	Vol. 32
Sawyer-Man Electic Company. New York	Vol. 38
scaffolding	Vol. 39
Scaife (Wm. B.) & Sons. Pittsburgh	Vol. 28
Scherzer Rolling Lift Bridge Co., Chicato	Vol. 2
Schneider, Charles C.	Vol. 1, 7, 11
screens, cast and wrought iron	Vol. 18
screens, church	Vol. 50
screens, door and window	Vol. 16
screws	Vol. 19, 24
searchlights	Vol. 38
seasoning, timber	Vol. 31
sections, iron and steel	Vol. 24
sedilia	Vol. 50
Seely process	Vol. 31
Seraing Iron Works (Cockerell Company), Seraing. Belgium	Vol. 20
sheet iron and steel (manufacture)	Vol. 24
sheet metal roofing and siding	Vol. 28
sheet metalwork, architectural	Vol. 18
shingles, metal	Vol. 28, 29
shingles, wood	Vol. 28
shoring buildings	Vol. 39
shutters, fire	Vol. 16, 29
shutters, window	Vol. 16
Siemens, C. William and Frederick	Vol. 20, 21
Siemens-Martin process	Vol. 22
Siemens' Patent Regenerative Gas Furnace	Vol. 21
Siemens - Steel Works, Landore, Waltes	Vol. 20 see also Landore Siemens-Steel Company, Ltd.
signs and signposts, cast and wrought iron	Vol. 18
skeleton construction and skyscrapers	Vol. 28
Skelton (R.A.) & Co. London	Vol. 24
slate	Vol. 12
slate roofing	Vol. 12, 28
slate-working machinery and tools	Vol. 12
slow-burning construction	Vol. 29
smelting	Vol. 21
Smirke, Sir Robert	Vol. 40
Smith (Archibald) & Stevens. London	Vol. 19
Smith, C. Shaler	Vol. 1
Smith mixer (T. L. Smith, Milwaukee, Wis.)	Vol. 13

Smith (R.H.) & Co. St. Catherines, Ont.	Vol. 32
smithies	Vol. 26
smoke-stacks	Vol. 34
soldering flux	Vol. 26
spandrels, cast and wrought iron	Vol. 18
Sparks from the Crescent Anvil. (Crescent Steel Company)	Vol. 22, 26
Sparks from the Anvil. (Crucible Steel Company of America)	Vol. 26
specifications, bridge	Vol. 11
specifications, building	Vol. 39
spires, church	Vol. 49
sprinkler systems, automatic	Vol. 29
stable fittings, iron	Vol. 19, 28
stained glass	Vol. 17
stained glass (church windows)	Vol. 17, 50
stair halls	Vol. 35
stairs and stair railings, cast and wrought iron	Vol. 18, 35
stairs and stair railings, wood	Vol. 31, 35
stalls, choir and priests'	Vol. 50
Standard Paint Co. New York and Chicago	Vol. 28
Standard Stone Co. of America. New York	Vol. 12
statues, casting bronze	Vol. 25
steam hammers	Vol. 27
steel	Vol. 20-26
steel, case-hardened	Vol. 26
steel, cast (and steel castings)	Vol. 22, 25
steel, crucible	Vol. 22, 26
Steel Company of Scotland. Glasgow	Vol. 24
steel, forged (and steel forgings)	Vol. 24, 26
steel framing	Vol. 28
steel - hardening, tempering and annealing	Vol. 26
steel manufacture	Vol. 22
steel, pressed	Vol. 22
steel, structural	Vol. 22, 24
steel, tool	Vol. 22, 26
Stephenson, Robert	Vol. 5
stone; artificial stone	Vol. 12
stone decay and preservation	Vol. 12
stone masonry and architectural stonework	Vol. 12
stoneworking machinery and tools	Vol. 12
store fronts	Vol. 18, 42
stoves, hot-blast	Vol. 21
Street, George Edmund	Vol. 40
Strode & Co. London	Vol. 18, 37

strong-rooms	Vol. 19
Sturtevant, B.F. Boston	Vol. 26
Styrian Steel Works, Sheffield, England	Vol. 22
sun burners	Vol. 37
suspended roofs	Vol. 28
suspension bridges	Vol. 6
Swan, Joseph	Vol. 38
swingbridges and swing spans	Vol. 2
Sykes Steel Roofing Co. Niles, Ohio and Chicago	Vol. 28
Szerelmey (N.C.) & Co. London	Vol. 12
Taylor (N. & G.) Co. Philadelphia	Vol. 28
Taylor, Robert Minton. Fenton, near Stoke-upon-Trent, England	Vol. 15
Telford, Thomas	Vol. 6
tendering	Vol. 39
tenoning machines	Vol. 32
terra cotta, architectural	Vol. 15
terra cotta, porous (fire-proof construction)	Vol. 29
tessellated pavement	Vol. 15
theatre fires and fire-protection	Vol. 29
Thomas Electric Welding Company. Lynn, Mass.	Vol. 26
Thomas-Gilchrist process	Vol. 22
Thorold cement	Vol. 13
Thorpe, John	Vol. 40
Thwaites Brothers, Ltd. Brandford, Yorkshire	Vol. 25, 27
Tiffany glass (Louis C. Tiffany)	Vol. 17
Tiffany Studios. New York	Vol. 17
tile, ceramic	Vol. 15
tile, floor and wall	Vol. 15
tile grates (or hearths)	Vol. 35
tile, hollow	Vol. 14, 29
tile machinery	Vol. 14
tile, mosaic	Vol. 15
tile pavement	Vol. 15
tile roofing (clay and metal)	Vol. 28, 29
tile, rubber	Vol. 36
timber	Vol. 31 see also wood
timber architecture	Vol. 42
timber construction	Vol. 28, 31 see also bridges, wooden
timber seasoning and drying	Vol. 24

tinplate	Vol. 24
tinplate roofing	Vol. 28
Toepffer, Grawitz & Co. Stettin, Germany	Vol. 13
tool steel	Vol. 22
tools, blacksmiths'	Vol. 24, 26
tools, pneumatic	Vol. 27
tools, stone-, slate-, and marble-working	Vol. 12
tools, wood-working and wood carving	Vol. 32
Toncan metal	Vol. 24
Toronto Bridge Co.	Vol. 1, 2
Toronto Fence and Ornamental Ironworks	Vol. 18
Toronto Plate Glass Importing Co.	Vol. 16
towers, church	Vol. 49
Town lattice bridges	Vol. 11
transformers	Vol. 38
Tredwell, E.A.	Vol. 16
Trent Tile Co. Trenton, N.J.	Vol. 15
trestle bridges	see bridges, trestle
trestles, wooden	Vol. 11
triumphal arches	Vol. 33
truss bridges	see bridges, truss
Trussed Concrete Steel Co. Detroit	Vol. 30
trusses, bridge	Vol. 10
trusses, roof	Vol. 28
tubes, metal	Vol. 24
tubular bridges	see bridges, tubular
Underhill & Co. London	Vol. 35
Union Bridge Co. New York	Vol. 1, 7
Union Iron, Steel and Mining Company, Ltd. Dortmund, Germany	Vol. 20
United Metile Co. Waltham, Mass.	Vol. 18
Van Dorn Iron Works. Cleveland, Ohio	Vol. 33
Van Vlack, D.L. Toronto	Vol. 31
Van Wagoner & Williams Hardware Co. Cleveland, Ohio	Vol. 19
Variety Manufacturing Company. Chicago	Vol. 33
Vassar Burglar Alarm Co. New York	Vol. 19
vaults, iron and steel	Vol. 28

vaults, stone	Vol. 12
vaults (strong-rooms)	Vol. 19
veneer-cutting machines	Vol. 32
veneer, wood	Vol. 31, 36
verandahs	Vol. 33
verandahs, cast and wrought iron	Vol. 18
vestments, church	Vol. 50
viaducts	see bridges
Vittremanie	Vol. 17
Von Gerichten Art Glass Co., Columbus, Ohio	Vol. 17
Vulcan Iron Works (Thwaites Brothers), Bradford, Yorkshire	Vol. 25, 27
Vulcanite Portland Cement Co. Philadelphia	Vol. 13
vulcanizing (timber)	Vol. 31
Waddell, J.A.L.	Vol. 2, 3, 7, 8, 11
Waddell's proposed system of iron railroad bridges for Japan	Vol. 3
wall coverings; wall painting	Vol. 36
wall panels, embossed sheet-metal	Vol. 18
wall tiles, ceramic	Vol. 15
wallpaper	Vol. 36
Warren truss bridges	Vol. 1
Waterous Engine Works Co. Brantford, Ont.	Vol. 32
Waters, F. Stratford, Ont.	Vol. 36
Watson-Foster Co., Ltd. Montreal	Vol. 36
Weary, Edwin D. Chicago	Vol. 12
welding	Vol. 26
Well's Light	Vol. 37
West Pascagoula Crcosoting Works. West Pascagoula, Mo.	Vol. 31
Western Mineral Wool Co. Cleveland, Ohio	Vol. 29
Whipple truss bridges	Vol. 1
Whiting Foundry Equipment. Harvey, Ill.	Vol. 25
Wiggins (H.B.) & Sons. Bloomfield, N.J.	Vol. 36
Wilbraham Brothers. Philadelphia	Vol. 26
Wilcock & Co. Burmantofts, Leeds, England	Vol. 15
Willer Manufacturing Co. Milwaukee, Wis.	Vol. 16
Williams (J.H.) & Co. Brooklyn, N.Y.	Vol. 26
window caps and sills, sheet-metal	Vol. 18
window decoration, imitation stained glass	Vol. 17
window glass, frames, screens, blinds, shutters and drapery	Vol. 16
window hardware	Vol. 19

windows	Vol. 16, 17
windows, fire-proof	Vol. 16
windows, stained glass	Vol. 17
windows, stained glass (churches)	Vol. 17, 50
Winget Concrete Machine Co. Columbus, Ohio	Vol. 30
Winslow Bros, Company. Jersey City, N.Y.	Vol. 25
wire	Vol. 19, 24
wire fencing	Vol. 33
wire glass	Vol. 16
wire nails	Vol. 19, 24
wire rope	Vol. 24
wire screens	Vol. 16
wood	Vol. 31
	see also timber
wood decay and preservation	Vol. 31
Wood-Mosaic Co. Rochester, N.Y.	Vol. 36
wood veneer	Vol. 31, 36
Wood (W. Dewees) Company. McKeesport, Pa.	Vol. 24
woodwook, architectural	Vol. 31
Woodworkers, Universal	Vol. 32
woodworking machinery and tools	Vol. 32
Woollams (Wm.) & Co. London	Vol. 36
Wren, Christopher	Vol. 40
wrought iron	Vol. 20, 26
	see also iron
Wrought Iron Bridge Co. Canton, Ohio	Vol. 11
wrought ironwork, architectural	Vol. 18
zinc, sheet	Vol. 18, 28

Vol. 1 BRIDGES, VIADUCTS AND AQUEDUCTS

Iron and Steel Truss Bridges.

Includes lattice-truss and -girder, arched truss or bowstring, tubular truss, Warrent truss, Fink truss, Pratt truss, Post truss and Paoli (lenticular) truss bridges.

Continental Bridge Co. Philadelphia.

Bridges included:

Coteau Bridge, over the St. Lawrence River, P.Q. (George A. Mountain, eng.; Dominion Bridge Co., Montreal, contr.)
Lachine Bridge, over the St. Lawrence River, P.Q. (C. Shaler Smith, eng.; Dominion Bridge Co., contr.)
Royal Albert Bridge, Montreal [proposed]. (Charles Legge, eng.)
Victoria Jubilee Bridge, Montreal.

Fraser River Bridge, B.C. (Charles C. Schneider, eng.)
Kinzua Creek Viaduct, Pa. (Octave Chanute, eng.; Clarke Reeves & Co., Philadelphia, contr.)
Marent Gulch Viaduct, Montana. (George S. Morison, eng.; Union Bridge Co., New York, contr.)
Merchants' Bridge, St. Louis, Mo. (George S. Morison, and E.L. Corthel, eng.; Union Bridge Co., New York, contr.)
Monongahela Bridge, Pittsburgh. (Gustav Lindenthal, eng.)

Hawesbury River Bridge, New South Wales, Australia. (Union Bridge Co., eng. and contr.; Sir John Fowler, consulting eng.)
Tay Bridge, over the Firth of Tay, Perth, Scotland. (Sir Thomas Bouch, eng.)

Vol. 2 BRIDGES, VIADUCTS AND AQUEDUCTS

Plate-Girder Bridges.

Includes plate lattice-girder and plate-girder deck cantilever bridges.

Movable Bridges: Miscellaneous Types.

Includes travelling and ferry bridges.

Miscellaneous Bridge Types.

Foot-bridges (wood and iron).
Temporary and Pontoon bridges; includes military bridging.

Vol. 4 BRIDGES, VIADUCTS AND AQUEDUCTS

Iron and Steel Arch Bridges.

Includes tubular arch bridges.

Bridges included:
Eads Bridge, over the Mississippi River, St. Louis, Mo. (James B. Eads, eng.)
Niagara River Steel Arch Bridge; Niagara Falls and Clifton Steel Arch Bridge. (L. Lefferts Buck, eng.)
Battersea Bridge, London, England. (Sir Joseph Bazalgette, eng.)
Douro River Viaduct, near Operto, Portugal. (G. Eiffel & Co., eng. and contr.)

Vol. 5 BRIDGES, VIADUCTS AND AQUEDUCTS

Masonry and Concrete Arches.

Theory, design and construction of brick and stone masonry, and concrete arches.

Arched Brick and Stone Masonry Bridges.

Includes skew arch bridges, foot-bridges, new and old London Bridges.

Concrete Bridges.

Includes concrete arch and reinforced concrete truss bridges.

Bridges included:
Middle Road Truss Bridge, over the Etobicoke River, Toronto, Ont. (first reinforced concrete truss bridge in Canada)

Connecticut Ave. Bridge, over Rock Creek, Washington, D.C.

Tubular Girder Bridges.

Bridges included:
Victoria Tubular Bridge, Montreal, (Alex M. Ross, eng. and Robert Stephenson, consulting eng.)

Brittania Tubular Bridges, over the Menai Straits, near Bangor, Wales. (Robert Stephenson, eng.)
Conway Tubular Bridge, over the River Conway, Wales. (Robert Stephenson, eng.)

Vol. 6 BRIDGES, VIADUCTS AND AQUEDUCTS

Includes rope, chain and cable suspension bridges, flying bridges, rigid suspension, stiffened chain, suspension truss bridges, suspension foot-bridges.

Harper, Louis. Aberdeen, Scotland. (steel rope suspension bridge)

Bridges included:
Bollman's Iron Suspension Truss Bridge, Harper's Ferry, Md.
Brooklyn Bridge, New York. (John A. and Washington A. Roebling, eng.)
East River Suspension Bridge, New York. (L. Lefferts Buck eng.; American Bridge Co., contr.)
Niagara Suspension Bridges.
Point Bridge, over the Monongahela R., Pittsburgh, Pa. (American Bridge Co., eng. and contr.)

Clifton Suspension Bridge, over the Avon River, Bristol, England. (I.K. Brunel, eng.)
Menai Suspension Bridge, over the Menai Straits, Bangor, Wales. (Thomas Telford, eng.)
Hammersmith Suspension Bridge, London, England. (Sir Joseph Bazalgette, eng.)

Vol. 7 BRIDGES, VIADUCTS AND AQUEDUCTS

Includes wooden cantilever bridges.

Bridges Included:

Quebec Bridge, over the St. Lawrence River, Quebec City. (Theodore Cooper, eng.)
Memphis Bridge, over the Mississippi River, Memphis, Tenn. (Geo. S. Morison and Alfred Noble, eng.)
Niagara Falls Cantilever Bridge. (Charles C. Schneider, eng.)
Pecos River Viaduct, Comstock, Texas. (Phoenix Bridge Co., eng. and contr.)
Poughkeepsie Bridge, over the Hudson River, Poughkeepsie, N.Y. (Union Bridge Co., eng. and contr.)
Queensboro Bridge, over the Hudson River, Blackwell's Island, New York. (Gustave Lindenthal, eng.)
Red Rock "Needles" Bridge, over the Colorado River, Calif. (designed by J.A.L. Waddell, eng.; Phoenix Bridge Col., contr.)
Firth of Forth Bridge, Scotland. (Sir Benjamin Baker and Sir John Fowler, eng.)
Lansdowne Bridge, over the River Indus, Sukkur, India.
Verrugas Viaduct, Peru. (L. Lefferts Buck, eng.)

Vol. 8 BRIDGES, VIADUCTS AND AQUEDUCTS

Bridge Design, Construction and Erection.

Includes structural design and construction of different types of bridges (truss and girder, suspension, arch, cantilever); bridge pins and eye-bars; use of steel in bridge construction; vibrations in bridges and the effects of wind pressure; bridge removal, relocation and reconstruction; bridge maintenance and preservation.

Bridge erection includes special methods adopted for specific bridges; different methods of moving bridge spans into place; methods of erecting iron and steel viaducts.

Bridge preservation includes preservative treatments for iron and steel. See also vol. 3, cat. 1 and vol. 23.

Vol. 9 BRIDGES, VIADUCTS AND AQUEDUCTS

Bridge Failures and Disasters.

Includes the Quebec Bridge, the Tay Bridge and the Moenchenstein Bridge disasters.

Bridge Foundations and Substructures.

Includes bridge abutments; cofferdams and caissons (include pneumatic caissons); bridge piers and piles.

The Iron Substructure Co. Columbus, Ohio.

Bridge foundations included:
Cairo Bridge, over the Ohio River, Cairo, Ill.
Memphis Bridge, over the Mississippi River, Memphis, Tenn.
See also vol. 6, cat. 11 (pneumatic tower foundations of Brooklyn Bridge, New York).
Hawkesbury Bridge, New South Wales, Australia.
Medway Bridge, Rochester, England.

Bridge Floors and Guardrails.

Vol. 10 BRIDGES, VIADUCTS AND AQUEDUCTS

Stresses, Strains and Loads on Bridges.

Includes graphical statics; dimensioning; experiments on the strength of and calculations of stresses and strains in bridge members (wood, cast and wrought iron, steel): includes trusses, struts, beams, girders (plate, lattice, box and trussed girders), arches and Phoenix columns.

See also vol. 24, cat. 18 (Rownson, Drew & Co.) for lattice, box and compound girders.

Vol. 11 BRIDGES, VIADUCTS AND AQUEDUCTS

Bridge Companies.

Advertisements and trade catalogues. See also Volumes 1, 3, 6 and 9 for trade literature relating to specific subjects.

The American Bridge Co. Chicago.
Clarke, Reeves & Co. Philadelphia. (See also vol. 3, cat. 2)
The Hamilton Bridge Works Company, Ltd. Hamilton, Ont.
Handyside (Andrew) & Co., Ltd. Derby, England.
Keystone Bridge Company. Pittsburgh, Pa.
New York Stone Contracting Co. (repair of masonry work with Béton)
The Wrought Iron Bridge Co. Canton, Ohio.
See also vol. 28, cat. 1 (William Bain & Co.)
vol. 28, cat. 2 (Berlin Iron Bridge Co.)

Bridge Specifications.

Includes specifications for iron and steel, highway and railway bridges.

Wooden Bridges and Trestles.

Different types of bridges includes truss bridges (arched truss, lattice-truss, Howe truss and Town lattice bridges); draw-bridges; crib bridges; trestle bridges; bamboo bridges.

Bridges included:
High Bridge, over the Genesee River, Portage, N.Y.
Marent Gulch Trestle, Montana. (C.C. Schneider, eng.)

Wooden trestles include trestle design and construction; standard railway trestle plans.

Combination Wood and Iron Truss Bridges.

B. Bear & Co. Doon, Ont.
The Wrought Iron Bridge Co. Canton, Ohio.

Vol. 12 STONE, MARBLE AND SLATE

General Items; Stone, Marble and Slate Working Tools and Machinery.

Tools and machinery include stone cutting and dressing tools; channelling and quarrying machines; stone planers and lathes; sawing or cutting machines; polishing machines.

Building Stones and Stone Masonry.

Includes different types of stone (e.g. Portland stone, granite, bluestone, sandstone and flint); properties, testing and uses of building stones; stone quarrying and stone industries of the United States; different kinds of stone masonry including stone vaulting.

The Cleveland Stone Company. Cleveland, Ohio.

Stone Decay and Preservation.

Includes different preservative processes; masonry repairs and waterproofing.

N.S. Szerelmey & Co. London.
See also vol. 11, cat. 10 (New York Stone Contracting Co.).

Architectural Stonework.

Includes stone columns and capitals.

Artificial Stone and Marble.

Includes moulded columns, capitals and architectural ornament.

The Standard Stone Co. of America. New York.
Weary, Edwin D. Chicago.

Marble.

Includes different types of marble (eg. Onyx marbles, Carrara marble, serpentine and alabaster); marble quarrying; architectural use of marble.

Slate.

Includes slate quarrying; different types and forms of slate: (eg. Bangor and Newton slate); slate slabs and roofing slate.

Bangor Excelsior Slate Co. Easton, Pa.
New Rockland Slate Co. New Rockland, P.Q. and Montreal.

Vol. 13 CEMENT, LIME, MORTAR, PLASTER AND CONCRETE

Cement.

Includes composition, manufacture and testing of cement; cement kilns and mixers; different types of cement, (eg. natural, hydraulic, slag and Portland cement.

The American Cement Co. Egypt, Pa. and Philadelphia.
Battle, Estate of John. Thorold, Ont. (Thorold Cement)
The Canadian Portland Cement Co., Ltd. Deseronto, Ont.
Lehigh Portland Cement Co. Alentown, Pa.
Nazareth Cement Co. Nazareth, Pa. and Philadelphia.
The Ontario Portland Cement Co., Ltd. Blue Lake and Brantford, Ont.
Toepffer, Grawitz & Co. Stettin, Germany.
Vulcanite Portland Cement Co. Philadelphia.

Lime and Mortar.

Includes lime kilns; lime and cement mortar.

Plaster and Plastering.

Acme Cement Plaster Co. Salina, Kansas and Chicago.
Adament Manufacturing Co. Syracuse, N.Y. and Toronto.

Concrete.

Includes composition and manufacture of concrete; concrete mixers.

E.F. Dartnell. Montreal. (Portable Concrete Gravity Mixer)
T.L. Smith. Milwaukee, Wis. (Smith Mixer)

Vol. 14 CLAY, BRICK AND HOLLOW TILE

General and Miscellaneous Items.

Includes properties of clay and brick; sizes and tests of brick; brick and tile making; different types of clay, brick and tile (eg. sand-lime brick, vitrified brick, fire brick and clay, enameled brick and tile, plain and ornamental glazed brick, and pressed brick).

American Enameled Brick & Tile Co. South River, N.J. and New York.
Cliff (Joseph) & Sons. Wortley, near Leeds and London.
Hall & Sons. Buffalo, N.Y. (firebrick)
The "Harold Smith" Company. Chicago.
W.E. Heames & Co. Detroit. (firebrick)

Brick and Tile Machinery; Brick Kilns.

Includes brick and tile presses; dry press brick machines.

H.C. Baird & Son. Parkhill, Ont.
Fawcett, Thos. C. Leeds, England.
Glen Brick Co. Tanneries West, near Montreal. (ring oven)
The Reliance Machine & Tool Works. St. Louis, Mo.

Brick Masonry.

Includes brick-laying; brick bonding; architectural use of brick and decorative brickwork.

Vol. 15 TERRA COTTA, CERAMIC TILE AND MOSAIC WORK

Architectural Terra Cotta and Faience.

Includes characteristics, manufacture and uses of terra cotta; terra cotta and faience architectural details and building components.

See vol. 34, cat. 5 (Joseph Cliff & Sons) for terra cotta chimney terminals.

Ceramic Tile.

Includes manufacture, types and designs of floor, paving, wall and hearth tiles. Different types of tile include encaustic, geometric, enamelled, glazed and majolica tile.

Maw & Co. Broseley, Shropshire, England.
Minton, Hollins & Co. Stoke-upon-Trent, England.
Taylor, Robert Minton. Fenton, near Stoke-upon-Trent.
Trent Tile Co. Trenton, N.J.

Mosaic Work.

Includes mosaic setting and machinery for mosaic work; mosaic designs; different forms of mosaic work (eg. tesselated pavements; interior floor and wall mosaics).

Vol. 16 PLAIN GLASS AND WINDOWS

Window Glass; General and Miscellaneous Items.

Includes manufacture, properties and different types of glass (eg. plate, tempered, wired, figured rolled, water and flint glass); glass industry of the United States.

The American Wire Glass Manufacturing Co. Tacony, Philadelphia.
Chambers Glass Company. New Kensington, Pa.
Mississippi Glass Co. St. Louis, Mos.
Pittsburgh Plate Glass Company
The Toronto Plate Glass Importing Co.

Glassware.

Includes manufacture, designs and different types of glassware (eg. cut and pressed glass; venetian and cameo glass).

Ryrie Bros. Toronto.

Mirrors.

Includes manufacture and designs of mirrors.

Windows: General and Miscellaneous Items.

Includes window designs and different types and forms of windows (eg. window lights; leaded windows; oriels).

Window Frames, Screens, Blinds, Shutters and Drapery.

Includes window fixtures and hardware; glazing systems; steel casements and sashes; window and door screens; Venetian, sliding, folding, and cane blinds.

The E.T. Burrowes Co. Portland, Maine.
Burlington Blind Co. Burlington, Vt.
O.M. Edwards. Syracuse, N.Y.
Expanded Metal and Fireproofing Co., Ltd. Toronto. (steel sashes and casements.)
Hodkinson & Clarke. Birmingham, England.
The Life Saving Window Company. New York.
Rendle (William Edgcumbe) & Co. London. (glazing system)
The Willer Manufacturing Co. Milwaukee, Wis.

Vol. 17 COLOURED GLASS AND STAINED GLASS WINDOWS

General and Miscellaneous Items.

Includes manufacture, uses and different types of coloured glass (eg. stained, painted, opalescent and mosaic glass); coloured glassware.

Tiffany Studios. New York. (Favrile glass)

Stained Glass Windows.

Includes fabrication and designs of stained glass windows; imitation stained glass windows (eg. 'Glacier' window decoration, 'Vitremanie').

Androvette (Geo. E.) & Co. Chicago.
J. Barnard & Son. London. ('Vitremanie')
Cox & Sons. London.
Flanagan & Biedenweg Co. Chicago.
Heaton, Butler and Bayne. London.
McCaw, Stevenson & Orr, Ltd. Belfast. ('Glacier' window decoration)
The Von Gerichten Art Glass Co. Columbus, Ohio.

Vol. 19 LOCKS AND SAFES; BUILDERS' HARDWARE

Locks and Safes.

Includes vaults and strong-rooms; keys; door, sash, drawer and alarm locks.

The Goldie & McCulloch Co., Ltd. Galt, Ont.
Miller Lock Co. Philadelphia.
Vassar Burglar Alarm Co. New York.

Builders' Hardware.

Door, sash and cabinet hardware; includes door knobs, latches, bolts and hinges; sash lifts and fasteners; decorative hardward (eg. door handles, drawer pulls, hinge-plates, knockers, lock-plates and keys).

Aikenhead & Crombie. Toronto.
Smith (Archibald) & Stevens. London.
Van Wagoner & Williams Hardware Co. Cleveland, Ohio. /broadside/

Nails and screws; nailing machines.

American Steel & Wire Co. Chicago, New York, etc.
Doig, William S. Brooklyn, N.Y. (box-nailing machine)

Vol. 20 IRON AND STEEL

General and Miscellaneous Items.

Includes the iron and steel trade and industries of various countries (including Canada); biographical information on William Siemens, Henry Bessemer and Henry Cort.

Iron and Steel Works.

Descriptions and layouts of iron and steel plants; works included:

Bethlehem Steel Company. South Bethlehem, Pa.
Carnegie, Phipps & Co., Ltd. Homestead Steel Works, Pittsburgh.
Cramp Iron and Steel Co., Ltd. Sydney, N.S.
Cockerell Company. Seraing Iron Works, Belgium.
Illinois Steel Company. Chicago.

Krupp, Fried. Essen, Germany.
Novelty Iron Works, New York.
Schneider & Co. Creusot Ironworks, France.
Siemens-Steel Works, Landore, Wales.
Union Iron, Steel & Mining Company, Ltd. Dortmund, Germany.

Iron Manufacture.

Includes early iron-making and ironworks; ironworks included:

Radnor Forges, Radnor, P.Q.
St. Maurice Forges, Three Rivers, P.Q.
Saugus Ironworks, Saugus, Mass.

Iron Resources.

Iron ore deposits and iron mining; includes Lake Superior fields and the Mesabi Range in Minnesota.

Pig Iron.

Properties, manufacture, grading and output.

Iron Smelting; Blast Furnaces.

Includes hot and cold-blast furnaces; hot-blast stoves; Duquesne furnaces (carnegie Steel Co., Ltd., Pittsburgh).

Rendall Steel Company. New York. (Rendall Process)

Puddling; Puddling and Regenerative Gas Furnaces.

Includes reverbatory furnaces; gas puddling furnaces; mechanical puddling machines; Siemens' Patent Regnerative Gas Furnace; regenerative hot-blast stoves; steel-melting furnaces.

Richmond & Potts. Philadelphia. (U.S. Agents for Siemens' Patent Regenerative Gas Furnaces)

Steel Manufacture: General and Miscellaneous Items.

Different processes included Bessemer process; Thomas Gilchrist process, and Siemens-Martin (open-hearth) process; also includes descriptions and layouts of Bessemer plants.

Howe, Brown & Co., Ltd. Chicago. (includes cast and tool steel)
The Landore Siemens-Steel Company, Ltd. Landore, Wales.
The Nes Silicon Steel Co. Rome, N.Y.

Cast Steel and Steel Castings.

Chester Steel Castings Company. Chester, Pa. and Philadelphia.
Hadfield's Steel Foundry Co. Sheffield, England.
Krupp, Fried. Essen, Germany.

Pressed Steel.

Includes pressed steel parts for railroad rolling stock.

Fox Solid Pressed Steel Company. Joliet, Ill. and Chicago.

High-Speed Tool Steels.

Includes special alloy steels; R. Mushel's 'air-hardening' tool steel.

Bohler Bros. & Co., Styrian Steel Works, Sheffield, England. /broadside/
Carpenter Steel Co. Reading, Pa. and Detroit, Mich.

Properties and Testing of Metals.

Properties, strength and testing of metals in general and miscellaneous metals; includes metallurgy.

Properties and Testing of Iron and Steel.

Includes physical and chemical properties of iron (pig iron, cast iron and wrought iron) and steel (includes structural steel and high -speed tool steel); Kirkaldy's (David) experiments.

Corrosion and Protection from Rust.

Includes protective coatings; preservation of iron and steel structural work.

Goheen Manufacturing Co. London, England and Canton, Ohi. ('Carbonizing Coating')
W.H. Palfreyman & Co. Manchester, England. /broadside/
See also vol. 3, cat. 1 (Detroit Graphite Manufacturing Co.).

Rolling and Plate Mills.

Includes blooming, rail and tire rolling mills; descriptions and layouts of specific mills including the Dominion Iron and Steel Co., Sydney, N.S. (rail mill) and Siemens' Steel Works, Landore, Wales.

Sheet Iron and Steel.

Includes Russian sheet-iron, American planished sheet-iron, corrugated iron and galvanized iron; rolling machinery and processes.

Wood (W. Dewees) Company. McKeesport, Pa.

Iron and Steel Rails and Rolling-Stock Parts.

Includes rail restoration; malleable iron castings and steel forgings for rolling-stock parts.

Rolled Iron and Steel Sections and Plates.

Includes bulbs, tees, channels, angles, Z-bars, joists, beams and girders; bars, rounds and squares; fire-box, boiler, ship and structural steel plate; pipes, tubes, gutters, ventilators and grates.

Bolling & Lowe. London.
Colville (David) & Sons. Motherwell, Scotland.
R.W. Crosthwaite. London.
Illinois Steel Company. Chicago.
Jones & Laughlins, Ltd. Chicago.
Nashua Iron and Steel Co. Nashua, N.H.
Rownson, Drew & Co. Nashua, N.H.
Rownson, Drew & Co. London
Steel Company of Scotland, Ltd. Glasgow.

Vol. 25 IRON, BRONZE AND BRASS FOUNDING

General and Miscellaneous Items; Iron Foundries.

Includes foundry practice and management; foundry design; descriptions and layouts of specific iron foundries including the Canada Foundry Company, Ltd., Davenport (Toronto) and Thwaites Brothers' Vulcan Iron Works, Bradford, Yorkshire.

Foundry Cupolas and Equipment.

Includes patterns and pattern-making; moulds and moulding machines; cores and core-making machines; miscellaneous apparatus (eg. foundry ladles and cranes, flasks, Jos. Dixon's graphite crucibles).

The Adams Company. Dubuque, Iowa.
Inglis & Hunter's Iron Works. Guelph, Ont.
Pneumatic Company. Indianapolis, Indiana.
Whiting Foundry Equipment Co. Harvey, Ill.
See also vol. 26, cat. 19 (P.H. & F.M. Roots).

Iron Castings.

Includes cast-iron pipes and special castings; casting chilled railway car wheels and car wheel foundries (includes Whiting's Improved Car-Wheel Foundry Plant).

Bronze and Brass Founding and Foundries.

Includes alloys; casting of bronze statues.

General and Miscellaneous Items.

Includes hand, electrical and hydraulic forging; iron and steel forgings for marine engines, crankshafts, locomotive parts and bridges (steel eye-bars); blacksmith ships, fires and furnaces.

J.H. Williams & Co. Brooklyn, N.Y. (drop-forgings)

Blacksmiths' Tools and Forging Machinery.

Includes forging presses, drop-presses and trimming presses.

The Blakeslee Manufacturing Co. Cleveland, Ohio.
See also vol. 19, broadside 3. (Van Wagoner & Williams Hardware Co., Cleveland, Ohio) for blacksmiths' hammers, vises and anvils.

Portable Forges; Blowers and Fans.

Portable forges include fan forges and stationary blast forges.
Blowers (hand and pressure blowers for foundry and forging work) include force blast rotary blowers and fan blowers.
Fans (exhaust and ventilating fans) include gas exhausters, dust and wood shaving collectors, hot blast heaters and dryers, exhaust stem drayers.

The Backus Company. Detroit, Mich.
The Buffalo Forge Co. Buffalo, N.Y.
Empire Portable Forge Co. Troy, N.Y.
P.H. and F.M. Roots. Cornersville, Ind.
B.F. Sturtevant. Boston.
Wilbraham Brothers. Philadelphia.
See also vol. 27, cat. 16 (B. & S. Massey).
vol. 27, cat. 20 (Thwaites Brothers).

Hardening, Tempering and Annealing of Steel.

Includes the hardening and tempering plant of J.H. Williams & Co. Brooklyn, N.Y.

W.H. Palfreyman & Co. Manchester.

Electric Welding.

Includes hand welding; electric welding machinery.

Thomas Electric Welding Co. Lynn, Mass.

Metal-Sawing Machinery.

Includes hack, band and circular saws; cold and hot metal-cutting saws; rail saws.

The Q & C Company. Chicago.
See also vol. 32, cat. 26 (P. Pryibil - brass-working machinery)

Vol. 27 POWER HAMMERS AND MISCELLANEOUS METAL-WORKING MACHINERY

Steam Hammers.

Includes steam drop hammers; steam stamps.

Bell, David. Buffalo, N.Y.
Davis & Primrose. Leith, Scotland.
Marchand & Morgan. Alliance, Ohio.
Massey, B & S. Manchester, England.
Miles, Frederick B. Philadelphia.
Morrison Bros. Soho Machine Works. Toronto, Ont. /broadside./
Thwaites Bros. Bradford, Yorkshire, England.

Power Hammers (except steam hammers).

Includes pneumatic, hydraulic, electric, compressed air, helve, tilt and drop hammers.

The Central Bridge and Engineering Company, Ltd. Peterborough, Ont.
Stevens, Hamilton & Co. Galt, Ont. /broadside./

Pneumatic Tools (except pneumatic hammers).

Includes portable pneumatic rivetters and punches.

Miscellaneous Metal-Working Machinery.

Includes bending, shearing, punching and bolt-heading machinery; embossing presses.

Ferracute Machine Co. Bridgetown, N.J. (power presses for sheet-metal work). /broadside./
The Long & Allstatter Co. Hamilton, Ohio.
See also vol. 26, cat. 1 (The Blakeslee Manufacturing Co.).

Vol. 28 IRON AND STEEL FRAMING AND ROOFS

Iron and Steel Framed Construction.

Includes prefabricated iron buildings; skeleton construction and shyscrapers; iron and steel columns; architectural treatment of constructional ironwork.

Bain (William) & Co. Coatbridge, near Glasgow.
The Berlin Iron Bridge Co. East Berlin, Conn.
Bolling & Lowe. London.
Morton (Francis) & Co., Ltd. Liverpool, England. (iron churches and schools)
Scaife (Wm.B.) & Sons. Pittsburgh. /booadside./
See also vol. 33, cat. 7 (David Rowell & Co.).

Roofs: Roof Framing and Coverings.

Miscellaneous roof structures: mansard roofs, suspended roofs and domes.
Note: Catalogues listed above include iron and steel framed roofs and corrugated iron roofing and siding.

Timber Framed Roofs.

Includes angular and curvilinear roofs.

Iron and Steel Framed Roofs.

Includes angular and curvilinear roofs; exhibition building roofs and rotundas for international exhibitions in Vienna (1873), Philadelphia (1876), Paris (1878) and 1889) and Chicago (1893).

Roof Coverings.

Includes thatch, slate, shingles, tiles, canvas, asphalt and sheet metal (copper, lead, zinc, tinplate and galvanized iron and steel) roofing. Sheet metal roofing includes metal shingles, tiles and roofing plates; standing seam metal roofing; corrugated iron and siding; sheet steel pressed brick.

Claridge's Patent Asphalte Company, Ltd. London.
McGuaig, John F. Montreal. (plastic roofing slate) /broadside./
The Metallic Roofing Co. of Canada, Ltd. Toronto. See also vol. 29, cat. 13.

The Standard Paint Company. New York and Chicago.
Sykes Steel Roofing Co. Chicago and Niles, Ohio.
N. & G. Taylor Co. Philadelphia.

Vol. 29 FIRES AND FIRE-PROTECTION

Fires.

Urban fires: Descriptions and illustrations of specific fires in different countries including Great Britain, United States and Canada (includes the Chicago Fire of 1871).

Theatre fires: Includes causes and prevention of theatre fires; descriptions and illustrations of specific fires (includes the Brooklyn Theatre Fire, 1876); design criteria for fire protection; fire-resistant fittings and materials.

Miscellaneous fires: Includes forest fires; ship fires; coal mine fires.

Causes and Prevention of Fires.

Includes spontaneous combustion; fire losses; fire hazards and risks; fire insurance; building regulations; fire tests and testing of fire-resistant building materials (includes the Boston Fire Tests, 1891); fire extinguishing apparatus for buildings; fire alarms and escapes:

Batten, John. Pittsburgh. (Batten Patent Automatic Balcony Fire Escape)
The Chicago Automatic Fire Escape and Manufacturing Company.

Fire-proof Construction.

Includes slow-burning construction; fire-proof partitions, floors, ceilings and roofs; fire doors and shutters; fire-proofing for iron and steel structural members; fire-resistant building materials. Fire-resistant materials include fire brick and clay; porous terra cotta, hollow tile and brick (for partitions, arches and furring); metal lath; corrugated iron (for ceiling arches); clay and metal roofing tile; mineral wool.

The Expanded Metal and Fireproofing Co., Ltd. Toronto.
Heuvelman, Haven & Co. New York. broadside.

Maurer (Henry) & Son. New York.
The Metallic Roofing Co. of Canada, Ltd. Toronto.
The Western Mineral Wool Co. Cleveland, Ohio.
See also vol. 28, cat. 2 (The Berlin Iron Bridge Company).

Vol. 30 CONCRETE CONSTRUCTION

General and Miscellaneous Items.

Includes plain and reinforced concrete construction; concrete reinforcement (wire, bar and expanded metal); metal lath; concrete block and block machinery; use of concrete in fire-proof construction.

American Hydraulic Stone Co. Denver Colo.
P. Dierlamm. Stratford, Ont. (concrete block machine)
The B. Greening Wire Co. Hamilton, Ont.
Northwestern Expanded Metal Co. Chicago.
St. Louis Expanded Metal Fireproofing Co. St. Louis, Mo.
The Trussed Concrete Steel Co. Detroit. (Kahn System)
The Winget Concrete Machine Co. Columbus, Ohio.

Concrete Structures.

Application of concrete in the construction of buildings and engineering works; includes W.H. Lascelles' Patent Concrete Slab Cottages; designs for concrete buildings; architectural treatment of concrete. See also vol. 13, cat. 8 (Canadian Cement and Concrete Review.) and vol. 13 cat. 11 (Concrete).

Vol. 31 WOOD AND CARPENTRY

Wood: General and Miscellaneous Items.

Includes wood species; mechanical properties (strength, durability, shrinkage, etc.), characteristics, uses and value of different types of wood; timber resources; timber testing; timber seasoning and drying.

Lumbering and Logging.

Includes lumber industries of the United States and Canada; lumber camps; timber rafts and chutes.

Wood Decay and Preservation.

Includes destructive fungi and insects (eg. dry rot and destruction of marine works by Teredo Navalis); preservative processes (eg. Robbins, Seely and Bethell processes, Kyanizing, Burnettizing, creosoting and vulcanizing).

Anti Dry Rot Company. London.
Carbolineoum Wood Preserving Co. New York.
The Fernoline Chemical Co. New York.
W.S. Finch. Toronto.
The Pennsylvania Wood Preserving Co. Philadelphia.
The West Pascagoula Creosoting Works. West Pascagonla, Mo.
D.L. Van Vlack. Toronto.

Carpentry: General and Miscellaneous Items.

Includes framing; joinery and cabinetwork.

Wood Flooring and Architectural Woodwork.

Includes doors and staircases; decorative mouldings and trim. See vol. 36 for parquet flooring.

Butters Lumber Co. Boardman, N.C.
Gramm, William. New York.
Mertz's Sons, George. Port Chester, N.Y.
The Ornamental Wood Company. New York.
Paine Lumber Co., Ltd. Oshkosh, Wis.
See also vol. 16, cat. 20 (Willer Manufacturing Co.).

Vol. 32 WOOD-WORKING TOOLS AND MACHINERY

General and Miscellaneous Items.

Includes hand tools (except saws and planers); wood carving tools and machines; "Universal Wood Workers" and combination wood-working machines; machine knives; trimmers; box-nailing, hoop-driving, belt-rail checking and block machinery.

Finishing Machines.

Includes hand planers; planing, smoothing, scraping, matching, flooring and moulding machines; spindle and baluster machines; wood-turning lathes; polishing and sand-papering machines (sanders).

Austin & Eddy. Boston, Mass. (Moulding Sanders)
C. Mattison Machine Works. Beloit, Wis. (spindle and baluster machines)

Vol. 33

Fences and Gates.

Includes wire, wrought iron, cable and expanded metal fences; railway fencing and crossing gates. See vol. 18 for ornamental cast and wrought iron gates, railings and fences.

American Steel and Wire Co. Chicago, New York, etc. See also vol. 19, cat. 1.
The I.L. Ellwood Manufacturing Co. De Kalb, Ill.
The Expanded Metal and Fireproofing Co., Ltd. Toronto.

The following catalogues include decorative iron fences, gates and railings;
Morton (Francis) and Company, Ltd. Liverpool, Eng.
Rowell (David) & Co. London.
Van Born Iron Works. Cleveland, Ohio.

Entrance Gates, Gateways, Arches, and Lodges.

Includes lych gates; water gates; triumphal arches; gatehouses; gates and gateways to fortified towns, forts, castles, palaces, private estates, parks and bridges.

Building Entrances, Doorways and Doors.

Includes entrances and doorways to schools and colleges, residences, public and commercial buildings. See vol. 49 for church entrances and doorways. Doors include plain and ornamental doors in wood, wood and iron, and bronze; special doors:

Mussens Ltd. Montreal. (steel rolling doors)
Variety Manufacturing Co. Chicago. (folding doors)

Porches, Verandahs and Balconies.

See vol. 18 for decorative cast and wrought iron verandahs and balconies.

Note: The boxed material in this volume consists mainly of illustrations.

Vol. 34 CHIMNEYS

Includes smoke stacks, factory and fire place chimneys (brick, metal and concrete); chimney draught; chimney straightening; chimney sweeping; specific chimneys constructed in Great Britain, France, United States and Canada; architectural treatment of chimneys.

Alphons Custodis Chimney Construction Co. New York.
Cliff (Joseph) & Sons. Wortley, near Leeds, Eng. (terra cotta chimney terminals)
Railway Supply Foundry Co. Chicago.

Vol. 35 FIREPLACES AND STAIRCASES

Fireplaces, Mantels and Grates.

Includes wood, slate, cast iron, stone, brick and marble mantels (mantelpieces) and chimney-pieces; tile grates; registers; fire-place fixtures (eg. brass fenders, andirons and fire-sets).

W.A. Freeman. Hamilton, Ont.
Rice Lewis & Son. Toronto.
The Robert Mitchell Furniture Co. Cincinatti, Ohio.
Underhill & Co. London.

Staircases, Stairways and Stair Halls.

Includes entrance halls; exterior and interior staircases in wood, stone, marble and iron. See vol. 18 for ornamental iron stairs and stair railings. See also vol. 16, cat. 20 (Willer Manufacturing Company) for wooden staircases.

Note: The boxed material in this volume consists mainly of illustrations.

Vol. 36. INTERIOR FINISHING MATERIALS AND MURAL DECORATION

Floor Coverings.

Includes rubber tile; linoleum; parquetry (parquet flooring and wainscoting). See vol. 33 for wood flooring and vol. 15 for ceramic tile flooring.

J.W. Boughton. Philadelphia. (broadside, parquetry.)
Jos. T. Ebner. London. (parquet flooring)
J. Kennard & Sons Carpet Co. St. Louis, Mo. (linoleum)
The Wood-Mosaic Co. Rochester, N.Y.

Wall and Ceiling Coverings: Wall-paper.

Includes manufacturing techniques and designs of wallpaper; paper-hanging; papers for ceilings, friezes, dados and borders.

M.H. Birge & Sons. Buffalo, N.Y.
Gay, John B. Hamilton, Ont.
Jeffrey & Co. London.
The H.P. Lang Co., Ltd. Stratford, Ont.
McArthur (Colin) & Co. Montreal.
Nevius & Haviland. New York.
The Robert Graves Company. New York.
F. Waters. Stratford, Ont.
The Watson-Foster Co., Ltd. Montreal.
Wm. Woollams & Co. London.

Wall and Ceiling Coverings: Fabrics.

Includes fabric hangings and screens; imitation leather.

H.B. Wiggins & Sons. Bloomfield, N.Y.

Wall and Ceiling Coverings: Composition Relief Materials.

Includes embossed wood veneer and fibrous plasterwork.

Fr. Beck & Co. New York. ('Lincrusta Walton')
McCully & Miles. Chicago.
Nevius & Haviland. New York. ('Anaglypts')

Mural Decoration.

Includes mural-painting techniques; fresco-painting and frescoes.

Vol. 37 LIGHTING (ALL TYPES EXCEPT ELECTRIC)

Candles, Oil Lamps and Gas Lighting.

Includes 'Arctic' candle lamps; Argand lamps; kerosene, petroleum and parafin lamps; Kleeman student lamps; bunsen and sun burners. Decorative lighting fixtures include candlesticks, candelabra and chandeliers; lanterns, coronas, pendants and wall brackets; table and floor lamps; gasoliers; street lamps.

Cox & Sons. London.
Douglas & McNiece. Montreal. (Kleeman lamp)
R.F. Fairlie & Co. London.
Miller & Sons. London.
Prince & Symmons. London.
Strode & Co. London.

Special Lighting.

Includes magnesium and lime lights; blast lamps for industrial lighting and foundry work.

Braby (Frederick) & Co., Ltd. London, Liverpool and Glasgow.
('Doty' Lamp)

Cooper, James. Montreal. ('Well's Light')
The New Industrial Light Works. Jersey City, N.J. and New York. ('Lucigen')

Vol. 38. ELECTRIC LIGHTING

General and Miscellaneous Items.

Includes development and theory of electric lighting; dangers of electric lighting; gas vs. electric lighting; National Electric Light Association convention reports. (U.S.).

Electric Lighting Installations and Plants.

Includes municipal and street lighting; British Electric Light Act (1888); lighting of mines, buildings and vehicles.

Arc and Incandescent Lighting Systems and Fixtures.

Includes the Edison electric light; lighting apparatus (eg. dynamos, transformers, switches and switchboards, watt-meters, incandescent lamps /bulbs/ and lamp-holders, sockets and reflectors); special lighting (eg. searchlights, electric arc-lamps, tungsten lamps, ship fittings); electroliers and other decorative lighting fixtures.

The Ball Electric Light Co. Toronto.
Bernstein Electric Company. Boston.
The Canadian General Electric Co. Peterborough, Ont. and Toronto.
The Edison General Electric Company. Chicago, New York, etc. (plus other Edison companies).
Sawyer-Man Electric Company. New York.

Vol. 39. BUILDING

General and Miscellaneous Items.

Includes the building trade; building regulations; building risks;

building failures; building materials and construction; sanitary construction and regulations; natural lighting and acoustics; estimating, tendering, specifications and bills of quantities.

Shoring and Moving Buildings; Scaffolding.

Vol. 40. ARCHITECTS

Portraits, biographies, designs and works of British and American architects. Architects include Sir Charles Barry, William Burges, Charles Bullfinch, Clinton & Russell (New York), William Eyre (Philadelphia), Inigo Jones, Augustus Welby Pugin, Sir Robert Smirke, George Edmund Street, John Thorpe, Christopher Wren.

Vol. 41. ARCHITECTURE

General Items.

Includes architectural theory, design and criticism.

Architectural Practice.

Includes competitions, examinations, licensing and architectural eduction.

Architectural Addresses.

Includes opening addresses delivered to the Architectural Institute of Scotland (1950s) and the Royal Institute of British Architects (1860s-1880s).

Building Restoration.

Vol. 42. ARCHITECTURE

Architectural Style(s).

Includes history of architecture.

Street Architecture.

Includes store fronts and facades of urban residences and commercial buildings.

Timber Architecture.

Includes half-timbered buildings; early timber houses in Norway.

American Architecture.

General and miscellaneous items.

Note: The boxed material on Street and Timber Architecture consists mainly of illustrations.

Vol. 43 CATHEDRAIS

Cathedrals: Great Britain.

English cathedrals include Bristol, Canterbury, Chester, Chichester, Durham, Ely, Exeter, Gloucester, Hereford, Lichfield, Lincoln, Newcastle, Norwich, Peterborough, Ripon, St. Alban's, St. Paul's and Southwell Cathedral.

Scottish cathedrals include Carlisle, Dunblane and Glasgow Cathedral.

Irish cathedrals include Belfast, Cork and Dublin Cathedral.

Welsh cathedrals include Bangor, Llandaff and St. David's Cathedral.

Cathedrals: United States and Canada.

American cathedrals include Baltimore Cathedral; Cathedral of St. John the Divine, New York; All Saints' Cathedral, Albany.

Canadian cathedrals include St. James' Cathedral, Toronto; Christ Church Cathedral, Montreal; St. George's Cathedral, Kingston, Ont.; St. John's Cathedral, Nfld.

Vol. 44. CATHEDRALS

Cathedrals: Europe.

French cathedrals include Albi, Amiens, Angoulême, Chartres, Le Puy, Notre Dame de Paris, Noyon, Reims, and Rouen Cathedral.

German cathedrals include Colonge, Ratisbon, Strasbourg, and Ulm Cathedrals.

Italian cathedrals include Florence, Milan, Sienna and St. Peter's, Rome.

Spanish cathedrals include Burgos, Seville and Toledo Cathedral.

Miscellaneous European cathedrals include Antwerp Cathedral, Belgium; Funfkirchen Cathedral, Hungary; Lausanne Cathedral, Switzerland; Lund Cathedral, Sweden.

Cathedrals: Miscellaneous Locations.

Includes Australia, New Zealand, India, Russia and Mexico.

Vol. 45 CHURCHES

Church Architecture.

General and miscellaneous items; includes church building and design.

Chapels and Meeting Houses.

Mainly British. See vol. 48: American Churches for New England meeting houses.

Churches: Great Britain.

Mainly English. See also vols. 46 and 47.

Vol. 46. CHURCHES

Churches: Great Britain.

Illustrations from The Building News.

Vol. 47. CHURCHES

Churches: London, England.

Includes the Church of the Oratory, South Kensington; St. Bartholomew the Great, Smithfield; St. Saviour's Church, Southwark; the Temple Church.

Vol. 48. CHURCHES

Churces: United States and Canada.

Includes Trinity Church, Boston.

Churches: Europe.

Countries include France, Germany, Italy, Greece, Portugal, Austria, Belgium, Holland, Switzerland, and Scandinavia.

Churches: Miscellaneous Locations.

Includes British Colonial churches.

Vol. 49. CHURCH ENTRANCES, PORCHES, TOWERS AND SPIRES

Church Entrances and Porches.

Includes church doorways and portals.

Church Towers and Spires.

Includes bell-towers.

Note: boxed material consists mainly of illustrations.

Vol. 50. CHURCH DECORATION AND FURNITURE

Church Decoration.

Includes church interiors; festive decorations; wall-paintings and hangings; sculptural decoration; stained glass windows.

Cox & Sons, London.

Church Furniture.

Miscellaneous items include shrines and tabernacles; alms basins; chests; altar-cloths; ecclesiastical metalwork (eg. candlesticks, lamp standards and brackets, altar crosses, croziers and church plate).

Altars and Eucharistic Furniture: includes communion tables; altar-rails; reredoses and retables; canopies and baldacchinos; sedilia; piscinas.

Screens: includes rood screens and lofts; chancel and choir screens.

Chancel and Congregational Seating; includes bishops' thrones; choir and priests' stalls; pews and benches.

Pulpits and Lecterns: includes interior and exterior pilpits; reading desks; eagle lecterns.

Fonts: includes font covers and canopies.

Cox & Sons. London.
The Globe Furniture Co., Ltd. Walderville, Ont.
Jones & Willis. Birmingham and London.
Lamb, J. and R. London.