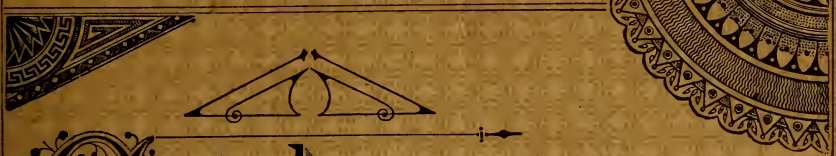


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Catalogue

OF

DRAWING MATERIALS.



TRADE MARK.

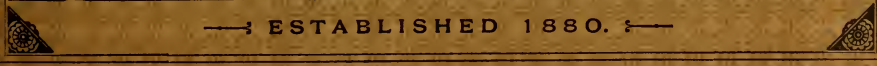


E. G. S. - N. Y.
REGISTERED.

✱ E. G. SOLTMANN, ✱

119 FULTON ST., NEW YORK.

— ESTABLISHED 1880. —





PRICE LIST
 OF
DRAWING MATERIALS,
 ARCHITECTS & ENGINEERS'
SUPPLIES,
 BLUE PROCESS PAPERS, ETC.

✓
E. G. SOLTSMANN,

119 Fulton Street,

New York.

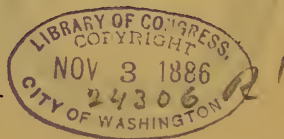
Established 1880.

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THIRD EDITION.

TELEPHONE CALL:
 "Nassau" 660.



NEW YORK:
 HOLT BROTHERS, CATALOGUE PRINTERS,
 No. 119 & 121 NASSAU STREET.

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E. G. S. 5/10/10

NOTICE.

THE numbers and prices will generally explain each article, and are sufficient description when ordering.

Goods ordered to be sent by mail should be registered, and are mailed at buyer's risk.

Postage is added to the cost of goods.

The Post-Office accepts no liquids of any kind.

Cash on delivery orders will be sent by express, with privilege of examining before paying if desired; a moderate sum, about equal to cost of expressage back and forth is requested with the order. The express charges for return of money to be added to bill.

Every care is observed in the packing of goods and no responsibility is assumed by the shipper for breakages or loss in transit.

Rolls of drawing paper should be ordered to be boxed; the damage done by twine marks and other injuries frequently amounts to more than the cost of a box.

Packing boxes and cartages are charged at cost.

Owing to the miscellaneous nature of goods, in this line of business, many of which are of foreign make, variations in values of materials, etc., may cause alterations in prices, which are subject to change without notice.

Terms are Cash, payable by Bank Draft, Post-Office or Express Money Order or otherwise, in New York City. Bank Notes are less liable to go astray if sent by registered mail.

To satisfy the purchaser has been, and always shall be, the aim.

E. G. SOLTMANN.

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☞ SAMPLES of Drawing Papers mailed on application.

DRAWING PAPERS

In Sheets.

100. Whatman's Drawing Papers.

Medium grain surface, known as "C. P.," "Cold Pressed," "N." and "Not" is best suited for general drawing and coloring.

Smooth surface, known as "H. P.," "Hot Pressed" and "Smooth" is generally used for mechanical and fine line drawing.

Very rough surface, known as "R.," "Rough" and "Extra Rough" has too coarse and open a grain for general drawing and is extensively used for bold water color sketches. The surface desired, whether "Cold Pressed," "Hot Pressed" or "Extra Rough" should be stated when ordering.

SELECTED BEST OR FIRST QUALITY.

Double Elephant.....	27 × 40 inches	"C. P." and "H. P."	.....	quire,	\$5 50
Atlas.....	26 × 34	" "	" "	" "	4 75
Imperial.....	22 × 30	" "	" "	" "	3 00
Super Royal.....	19 × 27	" "	" "	" "	2 20
Royal.....	19 × 24	" "	" "	" "	1 75
Medium.....	17 × 22	" "	" "	" "	1 40
Demy.....	15 × 20	" "	" "	" "	1 00
Cap.....	13 × 17	" "	" "	" "	.75
Antiquarian.....	31 × 53	" "	" "	" "	27 50
"	31 × 53	" "	" "	.....sheet,	1 50
Double Elephant.....	27 × 40	" "Extra Rough"	.....	quire,	6 00
Imperial.....	22 × 30	" "	" "	" "	3 50
Royal.....	19 × 24	" "	" "	" "	2 00
Griffin Antiquarian.....	31 × 53	" "C. P."	.....	sheet,	2 70

101. Whatman's Antiquarian.

	Quire.	Sheet.
31 × 53 inches, Ret: ee or Second Quality, "C. P.," "H. P.".....	\$16.00	.75

(Whatman's Paper mounted on Muslin, see No. 295.)

102. Whatman's Heavy Drawing Papers.

Imperial.....	22 × 30 inch., Ex. Heavy, "C. P.," "H. P."		
	and "Extra Rough".....	8 00	.40
"	.....22 × 30 "Extra Extra Heavy, "C. P."...	16 50	.70
"	.....22 × 30 "Heaviest (as heavy as Bristol Board,) "C. P.".....	24 45	1 10
Double Elephant.....	27 × 40 "Extra Heavy, "C. P.".....	13 25	.60

103. Imitation Creswick Drawing Papers.

Imperial.....	22 × 30 inches, "C. P.".....	6 25	.30
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105. "NEW LEONA" Drawing Papers, Cold Pressed, Rough Surface.

Will bear severe rubbing and erasing; is tough and well adapted for general drawing and painting.

Mammoth.....	42 × 62 inches.....	\$12 00	.55
Extra Large Dbl. Elephant	31 × 42 ".....	4 25	.22
" " Imperial.....	24 × 32 ".....	2 75	.13
" " Royal.....	20 × 25 ".....	1 60	.08
Medium.....	15½ × 21 ".....	1 25	.06

("New Leona," mounted on Muslin, see No. 296.)

106. **Harding's Drawing Papers.**

Imperial.....	22 × 30 inches, EXTRA THICK.....	quire, \$7.20
“	22 × 30 “	“ 3.60

107. **“FALCON” Drawing Papers, Hot Pressed, Smooth Surface.**

For Mechanical and other fine line drawing.

Extra Large Dbl. Elephant	31 × 42 inches.	quire, \$4.25	sheet, .22
“ “ Imperial.....	24 × 32 “	“ 2.75	“ .13
“ “ Royal.....	20 × 25 “	“ 1.60	“ .08

108. **“EMPIRE” Drawing Papers.**

Double Elephant (heavy)...	27 × 40 inches.	quire, 2.50
Imperial.	22 × 30 “	“ 1.50
Royal	19 × 24 “	“ 1.00
Medium	17 × 22 “	“ .70
Demy.....	15 × 20 “	“ .55
Cap.....	14 × 17 “	“ .35

112. **“QUEEN” Tinted Drawing Papers, for Water Color, Crayon, etc.**

Imperial.....	22 × 30 inches, various tints.....	“ 2.70
Double Elephant.....	.27 × 40 “ “ “	“ 4.25

113. **“CROWN” Tinted Water Color Papers, hand made.**

Imperial.....	22 × 30 inches, various tints, quire, \$5.00	sheet, .22
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114. **“ROMAN” Tinted Crayon Papers, Rough Surface.**

Royal.....	18 × 24 inches, various tints..... (List Price, \$1.12)	quire, 1.00
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116. **“JULLIEN” Tinted Crayon Papers, fine grain**

Royal.....	19 × 24 inches, various tints.....	“ 1.10
Atlas	24 × 34 “ “ “	“ 3.25

118. **“ANTLER” (formerly “Favorite”) Tinted Charcoal Papers.**

Royal..	19 × 25 inches, various tints.....	“ .70
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120. **Reynolds' English White Bristol Boards.**

Royal	18¼ × 22¼ inches.....	dozen, 4 sheet. \$3.15	3 sheet. 2.35	2 sheet. 1.60
Medium	16½ × 20¾ “	“ 2.25	1.60	1.20
Demy.....	14½ × 18½ “	“ 1.60	1.35	.90
Cap	12½ × 15¼ “	“ 1.20	.90	.60

121. **“TRIUMPH” White Bristol Boards.**

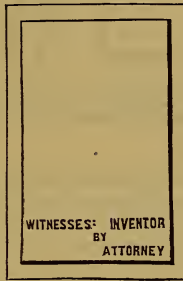
A fair blue print can be made from an ink drawing on the two-ply board.

Imperial.....	20½ × 32 inches.....	dozen, 4 ply. \$3.60	3 ply. 3.00	2 ply. 2.20
Medium.....	16 × 20½ “	“ 1.85	1.55	1.10
Cap.....	10¼ × 16 “	“ .95	.80	.55
Half Cap.....	8 × 10¼ “	“ .50	.40	.30

122. **“PATENT OFFICE” Bristol Boards, cut to the required size.**

American Patent Size, THIN.....	gross, \$6.40	dozen, .60
“ “ “ MEDIUM THICK.....	“ 8.50	“ .85
English “ “ THIN.....	“	“ 1.20
“ “ “ MEDIUM THICK.....	“	“ 1.50

122½. **English Patent Office Smooth Imperial Paper, cut to the required size, same as the Bristol Board.....** quire, \$.90 dozen, .50



No. 123.

Printed Patent Office Bristol Boards, with the wording or ruling as required by the Patent Offices.

123. American Patent Size, THIN.....	gross, \$8.00	dozen, .80
" " " MEDIUM THICK.....	" 10.00	" 1.00
123½. English Patent Size, THIN.....		" 1.50
MEDIUM THICK.....		" 1.75

Patent Office Bristol Boards, as required by other countries, furnished to order.

124. Turnbull's Bristol Boards, with rough surface for Water Color Painting.

		4-ply.	3-ply.	2-ply.
Royal	17½ × 22 inches.....dozen, \$9.00	7.50	6.00	4.20
Medium.....	15½ × 20½ "	" 7.50	" 6.00	" 4.20
Demy.....	14 × 18 "	" 5.75	" 4.50	" 3.00
Cap.....	12 × 15 "	" 3.90	" 2.90	" 1.90

125. French White Bristol Boards.

Double Elephant.....	28 × 41 inches, 4 ply	dozen, \$8.00	sheet, .70	
Atlas.....	24 × 34 " 4 "	" 5.75	" .50	
		4-ply.	3-ply.	2-ply.
Imperial.....	21 × 27½ inches.....dozen, \$2.50	2.00	1.60	
Royal	19 × 24¾ "	" 2.25	" 1.80	
Medium.....	17 × 21 "	" 1.70	" 1.35	
Demy.....	15½ × 19½ "	" 1.50	" 1.15	
Cap	12 × 16½ "	" .90	" .70	

126. French Tinted Bristol Boards.

Imperial.....	22 × 28 inches, THICK, Various Tints.....	dozen, 2.50
Royal....	19 × 24 " MEDIUM THICK, "	" 1.25

127. "FLORENCE" Cream Tinted Bristol Boards.

The rich cream tint gives pen and ink sketches a warm hue.

		4-ply.	3-ply.	2-ply.
Imperial.....	20½ × 32 inches.....dozen, \$3.90	3.25	2.50	
Medium.....	16 × 20½ "	" 2.15	" 1.75	
Cap.....	10¼ × 16 "	" 1.15	" .90	
Half Cap.....	8 × 10¼ "	" .60	" .35	

128. Bond Paper, See New Number, 142.



No. 128½.

128½. Mechanical Drawing Cards.

Made of Extra Heavy and Strong Binders' Boards, covered with white, smooth finish drawing paper on face and edges. Many large machine shops use these cards for drawing and for mounting tracings or blue prints, which, when varnished, can be washed clean at any time, and are easily handled or filed away for future reference. The smaller sizes are ½, ¾ and ⅞ of the largest sheet.

	Imperial. 22×30	Medium. 15×22	Cap. 11×15	Half Cap. 7¼×11 inches.
Dozen.....	\$4.20	2.40	1.44	.96
Each.....	.35	.20	.12	.08

Other sizes and grades furnished at short notice.



No. 129.

129. "SCRATCH or CHALK" BOARDS, with white enameled surface.

For Black and White work and photographic or process reproductions. The space to be drawn upon is covered with a solid coating of very black drawing ink; with a steel point, needle, or any sharp instrument, the picture is produced by scratching away the black and exposing the original white color of the board. The reverse side of this board is tinted but not enameled.

Imperial	22 × 28 inches.....	dozen,	\$4.00	sheet,	.33
Medium.....	14 × 22 "	"	2.00	"	.17
Cap.....	11 × 14 "	"	1.06	"	.09

Samples sent on application.

130. "ORIOLE" Tinted and White Sketching and Mounting Boards,

EXTRA HEAVY AND STRONG, BEST QUALITY.

Antiquarian..	36 × 50 inches,	WHITE and Gray...	dozen,	\$13.35	sheet,	1.25
Dbl. Elephant.	30 × 40 " "	WHITE, Gray and Buff	"	8.00	"	.75
Atlas	25 × 35 " "	WHITE, " " "	"	6.00	"	.55
Imperial.....	22 × 28 "	"	"	3.00	"	.28

White, Light Buff, Mottled Blue, Light Blue, Light French Grey, Light Yellow, Light Olive, Grey.

Medium.....	14 × 22 inches.....	dozen,	\$1.75	sheet,	.15
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(Same tints as Imperial.)

Cap.....	11 × 14 inches	"	1.00	"	.09
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(Same tints as Imperial.)

Samples sent on application.

131. "ORIOLE" Tinted and White Sketching and Mounting Boards,

HEAVY, GOOD QUALITY.

Imperial.....	22 × 28 inches	dozen,	\$2.40	sheet,	.22
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White, Mottled Drab, Light Drab, Slate, Grey, Light Olive, Light Buff, Mottled Blue, Buff, Red.

Samples sent on application.

133. **White Mounting Boards** (Formerly No. 138).

Imperial	.....	22 × 28 inches,	Extra THICK	.....	dozen,	\$2.20
"	.....	22 × 28	" THICK	.....	"	1.60
"	.....	22 × 28	" MEDIUM	.....	"	1.30
"	.....	22 × 28	" THIN	.....	"	1.10

134. **Gelatine or Glass Paper.**

Large Cap	.....	13 × 19 inches,	THICK	.....	dozen,	\$4.20	sheet,	.40
"	.....	13 × 19	" MEDIUM	.....	"	3.60	"	.35
"	.....	13 × 19	" THIN	.....	"	3.00	"	.30

135. **"HONEYCOMB"** Cold Pressed, Cream Tinted Mounting Boards, for Mounting Sketches, Tracings, Drawings, etc.

The surface and thickness vary, but are uniform in general appearance.

	THICK.		MEDIUM.		THIN.		
	Quire.	Sheet.	Quire.	Sheet.	Quire.	Sheet.	
18½ × 25½	\$4.45	.20	3.50	.16	2.50	.11
12½ × 25½	3.25	.15	2.50	.12	2.00	.09
12½ × 18½	2.50	.11	2.00	.09	1.50	.07
9¼ × 12½	1.35	.06	1.12	.05	.90	.04

Samples sent on application.

136. **Transfer or Impression Papers.**

Cap	11 × 18 inches,	Black, Red, Blue.	quire, \$2.00	dozen, \$1.00	sheet, .12
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Special colors and sizes furnished at short notice.

137. **English Parchment, first quality.**

		23 × 31	21 × 29	18 × 24	16 × 20	14 × 18 inches.
Dozen	.....	\$14.00	13.00	9.00	7.20	5.50
Sheet	.....	1.40	1.30	.90	.70	.50

138A. **Ross' Stipple or Autographic Papers,** various surfaces, from fine to coarse.

Drawings made with a soft pencil or crayon, have the peculiar appearance of a steel engraving. It is extensively used for photographic and other process reproductions.

Cap	11 × 14 inches	dozen, \$4.80	sheet, .40
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Other sizes furnished at short notice.

138C. **Printed Tints,** on thin paper, for photo-engraving.

Cap	11 × 14 inches,	various kinds	"	1.20	"	.12
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139. **Wood's Monochromatic Boards,** for pastels, etc.

Royal	18 × 24 inches.	No. 1, sheet, .50	No. 2, sheet, .40
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139A. **French Monochromatic Boards.**

Imperial	22 × 28 inches	dozen, \$4.00	sheet, .35
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139C. **Pastel Boards.**

		20 × 24	18 × 22	15 × 18	12½ × 16 inches.
Each75	.60	.50	.40

139E. **Pastel Papers.**

Royal	19 × 25 inches	dozen, \$2.85	sheet, .25
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140. **Chagrine or Pebbled Boards.** White and various tints for passepartouts.

Imperial	22 × 28 inches	quire, \$2.40	sheet, .10
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140½. **Chagrine or Pebbled Papers.** White and various tints.

Imperial	22 × 28 inches	quire, 1.44	sheet, .06
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141. "KAN-SUNE" India Proof Paper for Wood Engravers.

Sheets.....27 × 53 inches, Bundle of 96 sheets\$5.00
 "27 × 53 "quire, \$1.50 dozen, .85

141½. "FOO-CHOW" India Proof Paper for Wood Engravers.

EXTRA THIN, VERY CLEAR.

Sheets.....12½ × 44 inches, Bundle of 96 sheets.....\$4.40
 "12½ × 44 "quire, 1.20

142. Bond Papers (Formerly No. 128), Extra Tough, suitable for tracing.

Can be folded without breaking. Not affected by age. An excellent blue print can be produced from drawings in India Ink made on this paper.

Columbier.....21 × 33 inches..quire, \$1.75 Package of 100 sheets,\$6.00
 Imperial.....19 × 30 " .. " 1.40 " " 5.00
 Royal.....19 × 24 " .. " 1.20 " " 4.00
 Medium.....16 × 21 " .. " 1.10 " " 3.25

Other regular sizes and grades furnished to order.

See Extra Thin and Extra Tough Drawing Papers in Rolls Nos. 194 and 195.

DETAIL PAPERS

In Rolls.

144. "CRESCENT" Mat Finish Sketching Detail Papers, Extra THIN.

Have a smooth but unpolished surface, and are admirable for pen and ink drawing and sketching. A want has long been felt for a thin, low-priced roll detail paper, strong enough to bear rubbing and folding without tearing or breaking, suitable for sketches to be filed for reference, or for drawings to be mailed, thus saving a considerable amount for postage

100 yard Roll, 48 inches wide .. \$4.00	100 yard Roll, 40 inches wide... \$3 25
50 " " " " " ... 2.20	50 " " " " " ... 1.85
25 " " " " " ... 1.25	25 " " " " " ... 1.00



(Registered "VICTOR" Trade Mark.)

"VICTOR" SKETCH BLOCKS.

Containing 48 sheets (same as No. 14,000.)

For bold, off-hand sketching, these blocks will be found convenient. The paper is the same as the 147 "Victor."

	24×30	24×24	18×24	12×18	9×12 inches.
Each	\$3.50	3.00	2.50	1.50	.85
List Prices.....	(3.90)	(3.35)	(2.80)	(1.70)	(.95)

(See Sketch Block T Squares No. 6,000.)

“VICTOR” DETAIL PAPERS.

(Registered Trade Mark.)

146. “VICTOR” Thin Cold Pressed Detail Papers.

The “Victor” Detail has a surface similar to white drawing paper; it acts well under the rubber; India Ink and Water Color do not spread, and the cold pressed grain displays Pencil or Crayon to better advantage than any smooth Detail Paper.

100 yard Roll, 48 inches wide... \$7.75	100 yard Roll, 40 inches wide... \$6.90
50 “ “ “ “ ... 4.25	50 “ “ “ “ ... 3.75
25 “ “ “ “ ... 2.20	25 “ “ “ “ ... 2.00

Also sold in rolls weighing from 125 to 150 pounds.—Pound, 15c.

147. “VICTOR” Thick Cold Pressed Detail Papers.

100 yard Roll, 48 inches wide... \$8.75	100 yard Roll, 40 inches wide... \$7.85
50 “ “ “ “ ... 4.75	50 “ “ “ “ ... 4.25
25 “ “ “ “ ... 2.50	25 “ “ “ “ ... 2.20

Also sold in rolls weighing from 125 to 150 pounds.—Pound, 15c.

DETAIL PAPERS—Continued.

152. “STANDARD” THIN, Medium Smooth Detail Papers.

	100 Yard.	50 Yard.	25 Yard Roll.
48 inches wide.....	\$8.25	4.25	2.20
40 “ “	7.25	3.90	2.00
36 “ “	6.75	3.45	1.75

Rolls of about 100 Pounds.—Pound, 14c.

153. “STANDARD” Medium Thick, Medium Smooth Detail Papers.

	100 Yard.	50 Yard.	25 Yard Roll.
54 inches wide.....	\$9.90	5.25	2.75
48 “ “	8.75	4.45	2.50
40 “ “	7.75	4.25	2.20
36 “ “	7.00	3.70	1.90

Rolls of about 100 Pounds.—Pound, 14c.

154. “STANDARD” THICK, Medium Smooth Detail Papers.

	100 Yard.	50 Yard.	25 Yard Roll.
54 inches wide.....	\$11.75	6.25	3.25
48 “ “	10.00	5.25	2.75
40 “ “	8.75	4.60	2.35
36 “ “	7.75	3.90	2.00

Rolls of about 100 Pounds.—Pound, 14c.

155. “STANDARD” EXTRA THICK, Medium Smooth Detail Papers.

	100 Yard.	50 Yard.	25 Yard Roll.
48 inches wide.....	\$11.75	6.25	3.25
40 “ “	9.50	5.00	2.65
36 “ “	8.50	4.45	2.35

Rolls of about 100 Pounds.—Pound, 14c.

WHITE DRAWING PAPERS

In Rolls.

“PAR EXCELLENCE” DRAWING PAPERS,

Although similar in grain to the former “Eggshell” have to a great extent taken the place of the latter. The surface is more uniform, and the quality, both for erasing and coloring purposes excellent. The reverse side is smooth, and is well adapted for fine line drawing.

156. “PAR EXCELLENCE” THIN, Rough Surface.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
58 inches wide.....	\$10.75	7.25	3.75	.40

Rolls of about 35 to 50 Pounds.—Pound, 45c.

157½. “PAR EXCELLENCE” Medium THICK, ROUGH SURFACE.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
36 inches wide.....	\$8.25	5.60	2.85	.30

Rolls of about 35 to 50 Pounds.—Pound, 45c.

157. “PAR EXCELLENCE” Medium THICK, ROUGH SURFACE.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$9.25	6.25	3.25	.36

Rolls of about 35 to 50 Pounds.—Pound, 45c.

158. “PAR EXCELLENCE” Medium Thick, Rough Surface.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
58 inches wide.....	\$12.20	8.25	4.20	.45

Rolls of about 35 to 50 Pounds.—Pound, 45c.

159. “PAR EXCELLENCE” THICK, Rough Surface.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
58 inches wide.....	\$15.85	10.65	5.40	.65

Rolls of about 35 to 50 Pounds.—Pound, 45c.

161. “PAR EXCELLENCE” Medium THICK, Medium Smooth Surface.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$9.25	6.25	3.25	.36

Rolls of about 35 to 50 Pounds.—Pound, 45c.

162. “PAR EXCELLENCE” Medium THICK, Medium Smooth Surface.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
58 inches wide.....	\$12.20	8.25	4.20	.45

Rolls of about 35 to 50 Pounds.—Pound, 45c.

170. “LINNIEN” Medium Thick, Medium Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
36 inches wide.....	\$6.00	4.25	2.20	.25

Rolls of about 35 to 50 Pounds.—Pound, 50c.

171. “LINNIEN” Medium Thick, Medium Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$9.25	6.25	3.25	.33

Rolls of about 35 to 50 Pounds.—Pound, 50c.

176. **"HERCULES"** (Registered Trade Mark,) Medium Thick, Fine Grain.

"Hercules" Drawing Paper surpasses all other roll paper for strength; it will bear any amount of erasing, can be folded without breaking, which is a desirable consideration in drawings subjected to rough usage in Machine Shops, New Buildings, Stone Yards, etc.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
62 inches wide.....	\$ 2 00	8.00	4.25	45
Rolls of about 50 to 75 Pounds.—Pound, 45c.				

177. **"HERCULES"** (Registered Trade Mark,) Medium Thick, Fine Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
31 inches wide.....	\$6.50	4.45	2.35	.25
Rolls of about 50 to 75 Pounds.—Pound, 45c.				

182. **"VELVETEEN"** Medium Thick Smooth Surface.

This paper is recommended for mechanical and other fine line drawing. The quality is good, and the well sized surface allows heavy erasures.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$22.00	11 25	6.90	4.80	2.50	.26
36 " "	18.50	9.50	6.00	4 20	2.20	.23
30 " "	16.00	8.25	5.00	3.60	1.90	.20
27 " "	13.50	7.00	4.35	3.00	1.60	.17

183. **"EAGLE"** Medium Thick, Rough Surface.

Has a surface suitable for general drawing; takes ink and color readily, and is not easily broken when folded.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$22.00	11.25	6.90	4.80	2.50	.26
36 " "	18.50	9.50	6.00	4.20	2.20	.23

184. **"LINOLA"** Medium Thick, Medium Rough.

Linola Drawing Papers are made of pure selected linen stock; they are very tough and can be folded without breaking; color and ink flow freely and the eraser may be liberally applied without injury to the quality of the surface.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
36 inches wide.....	\$22.00	11.25	6.90	4.80	2.50	.26
30 " "	18.50	9.50	6.00	4.20	2.20	.23
27 " "	16.00	8.25	5.00	3.60	1.90	.20

185. **"SOVEREIGN"** (formerly "Monitor") Medium Thick, Medium Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
36 inches wide.....	\$5.00	3.40	1.75	.20
Rolls of about 35 to 50 Pounds.—Pound, 36c.				

186. **"SOVEREIGN"** (formerly "Monitor") Medium Thick, Medium Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide.....	\$6.50	4.35	2.20	.25
Rolls of about 35 to 50 Pounds.—Pound, 36c.				

187. **"SOVEREIGN"** (formerly "Monitor") Medium Thick, Medium Grain.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
56 inches wide.....	\$7.75	5.25	2.70	.30
Rolls of about 35 to 50 Pounds.—Pound, 36c.				

194. **"SAXON"** Thin, Pliable and Strong.

Can be folded repeatedly without breaking; very thin, tenacious and tough; for map and other drawing and rough tracing. **A perfect "Blue Print" can be printed from an ink drawing made on this paper.**

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide....	\$17 50	8.75	5.95	4.25	2.20	.23
36 " "	15.30	7.65	4.80	3.25	1.85	.20

195. "ANCHOR," Extra Thin and Extra Tough.

Is extensively used for map and other drawings which are intended for mailing, or to be folded and frequently handled. A drawing made on this paper can be reproduced by the "Blue Process."

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide....	\$17.50	8.75	5.95	4.25	2.20	.23
36 " "	15.30	7.65	4.80	3.25	1.85	.20
30 " "	13.00	6.50	4.15	2.85	1.50	.17
27 " "	11.50	5.75	3.60	2.50	1.35	.15

200. "SATURN" Medium THIN FINE GRAIN.

This paper is frequently used as a substitute for *Steinbach's Paper*. The surface is similar, and for crayon work has been utilized to good advantage. As it is thoroughly sized and made of linen stock, it possesses the qualities of a good drawing paper.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
54 inches wide....	\$22.70	11.35	7.50	5.00	2.65	.28
42 " "	17.50	8.75	6.00	4.25	2.20	.23
36 " "	15.30	7.65	5.00	3.25	1.85	.20
30 " "	13.00	6.50	4.20	2.85	1.50	.17
27 " "	11.50	5.75	3.70	2.50	1.35	.15

205. Steinbach's THICK, Chemically Pure.

For Solar printing and Crayon Drawing.

	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
53 inches wide.....	\$27.50	16.50	11.00	5.50	.55
26 " "	14.50	8.70	5.80	2.90	.29

206. Steinbach's THIN.

	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
53 inches wide	\$17.50	10.50	7.00	3.50	.35
26 " "	9.50	5.70	3.80	1.90	.19

TINTED ROLL DRAWING PAPERS.

220. "ROMAN" Medium Thick, Rough ("Par Excellence") Surface. VARIOUS TINTS.

For drawing, mounting, and mats for pictures.

	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
54 inches wide.....	\$9.90	7.00	3.60	.38

Roll of about 35 to 50 pounds.—Pound, 45c.

225. "GRIFFIN" (Registered Trade Mark,) Medium Thick, Medium Grain.

For fine detail and general drawing. It acts well under the rubber, and takes ink and color freely.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide....	\$15.50	8.25	5.20	3.50	1.80	.19
36 " "	12.75	6.60	4.00	2.75	1.50	.17

Rolls of about 35 to 50 pounds.—Pound, 25c.

226. "GRIFFIN" (Registered Trade Mark,) THIN, Medium Grain.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.	Yard.
42 inches wide....	\$12.75	6.60	4.00	2.75	1.50	.17
36 " "	10.50	5.35	3.50	2.35	1.20	.14

Rolls of about 35 to 50 pounds.—Pound, 25c.

BLUE PROCESS PAPERS, PREPARED AND NOT PREPARED.

(See Nos. 400, etc.)

WHITE DRAWING PAPERS

In Rolls.

MOUNTED ON MUSLIN.

“PAR EXCELLENCE” DRAWING PAPERS.

Although similar in grain to the paper known as Eggshell, have to a great extent taken the place of the latter. The surface is more uniform and the quality, both for erasing and coloring purposes, excellent.

	20 Yard.	10 Yard Roll.	Yard.
250. 36 inches wide, Medium THICK, Rough Surface,	\$16.00	8.00	1.00
251. 42 “ “ “ “ “ “	18.00	9.00	1.10
253. 58 “ “ “ “ “ “	24.00	12.00	1.40
255. 58 “ “ THIN, “ “	22.00	11.00	1.25
256. 58 “ “ THICK, “ “	26.70	13.35	1.60
260. 36 “ “ MEDIUM THICK, Smooth Surface,	16.00	8.00	1.00
261. 42 “ “ “ “ “ “	18.00	9.00	1.10
262. 58 “ “ “ “ “ “	24.00	12.00	1.40

“HERCULES” VERY STRONG, HARD SURFACE.

268. 30½ inches wide, MEDIUM THICK, MED. Grain	14.50	7.25	.85
269. 54 “ “ “ “ “ “	24.00	12.00	1.40
270. 61 “ “ “ “ “ “	27.00	13.50	1.60

275. “ANCHOR” EXTRA Thin and Extra Tough, for Maps, etc., or drawings which are to be mailed, or frequently folded or handled.

	20 Yard.	10 Yard Roll.	Yard.
42 inches wide	\$15.00	7.50	.85

“SOVEREIGN” (formerly “Monitor”) For general use.

280. 36 inches wide, Medium Thick, Medium Grain	\$15.00	7.50	.85
281. 42 “ “ “ “ “ “	17.00	8.50	.95
282. 54 “ “ “ “ “ “	21.00	10.50	1.12

WHITE DRAWING PAPERS

In Sheets.

MOUNTED ON MUSLIN.

295. Whatman’s Drawing Papers.

Antiquarian 31 × 53	quire,	\$32.40	sheet,	1.35
Double Elephant, 27 × 40	“	18.00	“	.75
Imperial 22 × 30	“	12.00	“	.50
Royal 19 × 24	“	9.60	“	.40

296. “NEW LEONA” Medium Thick, Medium Grain.

Mammoth 42 × 62	quire,	\$36.00	sheet,	1.50
Extra Large Double Elephant, 31 × 42	“	18.00	“	.75
“ “ Imperial 24 × 32	“	10.80	“	.45
“ “ Royal 20 × 25	“	8.40	“	.35
Medium 15½ × 21	“	6.00	“	.25

Sheets and Rolls of other sizes mounted to order. Large sheets for city, county and other maps, mounted on muslin, furnished at short notice.

TRACING MUSLIN OR CLOTH.

Owing to fluctuations abroad, the prices of Tracing Cloth frequently vary.

Special quotations will be sent on application.

"Dull Back" or "D. B." signifies dull on one side and glazed on the other.
"Glazed" signifies glazed on both sides.

302. **"IMPERIAL"** Dull Back or Glazed Rolls of 24 Yards.

	42 in.	36 in.	30 in.	18 in.
List Price.	(\$11.00)	(8.25)	(7.50)	(4.25)
Roll	\$10.50	7.60	6.90	4.00
Yard.....	.50	.40	.35	.22

303. **"IMPERIAL"** Tracing Cloth, Dull Back in Sheets.

Double Elephant, 27 × 40	quire, \$7.50	sheet, .33
Imperial..... 22 × 30	" 4.75	" .20
Royal..... 18 × 24.....	" 2.50	" .10
Demy..... 13 × 20 (English Patents).....	" 1.75	" .07
Cap	" 1.00	" .05

308. **"RELIANCE"** Extra Heavy and Strong, not as transparent as the
"Imperial." Dull Back. Rolls of 24 Yards.

	43 in.	40 in.	36 in.	30 in.	18 in. Wide.
Roll.....	\$9.30	8.00	6.80	6.00	3.75
Yard.....	.45	.40	.35	.30	.20

310. **"SAGARS"** Dull Back or Glazed. Rolls of 24 Yards:

	42 in.	36 in.	30 in. Wide.
Roll.....	\$11.00	8.10	7.40

TRACING PAPERS

In Sheets.

320. **"CHAMPION"** Vegetable, Extra tough; very clear. Does not become brittle with age.

Double Elephant. 27 × 38 inches	quire, \$8.00
Imperial..... 21 × 27 "	" 3.00
Royal..... 18 × 24 "	" 2.25
Demy..... 15 × 20 "	" 1.35
Cap	" 1.10

322 **"PRINCESS"** Oiled.

Double Elephant..... 30 × 40 inches	quire, \$2.70
Imperial..... 20 × 30 "	" 1.35

TRACING PAPERS

In Rolls.

340. **"PREMIUM"** Oiled, thin.
 Roll 20 yards long, 40 inches wide \$3.00
341. **"MAMMOTH"** Oiled, Extra Heavy.
 "Mammoth" Tracing Paper is used for Pen and Ink Sketches, which are to be mounted on Card or Mounting board.
 India Ink or Water Color are easily applied, and pencil marks can be erased without tearing the paper.
 Roll 20 yards long, 40 inches wide \$4.00
344. **"VICTORIA"** Hot PRESSED, Satinized, Unprepared.
 "Victoria" Tracing Paper contains no oil or paraffine, and will not become brittle or yellow with age.
 It can be folded without breaking; India Ink or Water Color do not spread or soak through, and on account of the low price it is preferable to many other Tracing Papers.
 Roll 44 yards long, 54 inches wide (List Price, \$5.50) \$5.00
 " 22 " " 54 " " (" 2.75) 2.50
 " 44 " " 27 " " (" 3.19) 2.75
345. **"MONARCH"** (Registered Trade Mark,) Cold PRESSED, unglazed, unprepared.
 "Monarch" Cold PRESSED Unprepared Tracing Paper has a slightly rough surface; it contains no oil, will not turn yellow or brittle with age, and is not injured in folding.
 Water Color and India Ink do not spread or soak through, and the low price has made it a very popular tracing paper.
 Roll 44 yards long, 54 inches wide (List Price, \$5.50) \$5.00
 " 22 " " 54 " " (" 2.75) 2.50
 " 44 " " 27 " " (" 3.10) 2.75
346. **"CRYSTAL"** Extra Thin, very transparent.
 Roll, 20 yards long, 57 inches wide \$5.50
 " 20 " " 43 " " 3.85
 " 20 " " 28 " " 2.85
347. **"LEATHERINE"** Strong, very clear.
 This paper is less liable to wrinkle when Water Color is applied than many other Tracing Papers. India Ink flows freely and pencil marks can be erased without tearing the paper.
 Roll, 20 yards long, 54 inches wide \$6.85
 " 20 " " 40 " " 5.00
 " 20 " " 27 " " 3.50
350. **"LION"** Parchment, very tough and transparent.
 Is an excellent substitute for tracing cloth; it can be folded, takes India Ink and Color freely, and may be stretched like Drawing Paper, by gumming down the edges first, and when it adheres thoroughly, moistening the surface with a sponge or brush.
 Roll, 20 yards long, 37 inches wide (List Price, \$5.50) \$5.00
352. **"ELEPHANT VELLUM"** Extra Heavy, Extra Strong.
 "Elephant Vellum" is strong enough to be used like a drawing paper. Drawings, constructed in pencil, on it, can be easily erased without tearing. A fine "Blue Print" is produced from an ink drawing made on this paper, which saves the expense of tracing the original. To stretch it, gum down the edges, and when it adheres, moisten the surface with a sponge or brush.
 Roll, 20 yards long, 37 inches wide \$6.00

TRACING PAPERS IN ROLLS.—Continued.

360. "IVORINE" White Smooth Finish, not prepared.

Will not break in folding. It is of fair strength, remains white, does not become brittle with age, and Color and Ink flow freely.

Roll, 44 yards long, 54 inches wide.....	\$4.75
" 44 " " 42 " "	3.75
" 22 " " 54 " "	2.75
" 22 " " 42 " "	2.00
" 44 " " 27 " "	2.50

361. "CANARY" (Registered Trade Mark,) AMBER TINTED.

The surface of this paper is well suited for tracing with pencil. It is strong enough to bear erasing; takes India Ink and Water Color; can be folded without breaking; has a fair amount of strength, and on account of the moderate price it is recommended for general use and TRACINGS OF DETAILS.

Roll, 44 yards long, 48 inches wide..... \$2.00

362. "ARCADIA" Detail Tracing Paper.

A low priced paper for general Rough Tracing, where no great transparency is required.

Roll, 50 yards long, 40 inches wide..... \$1.25

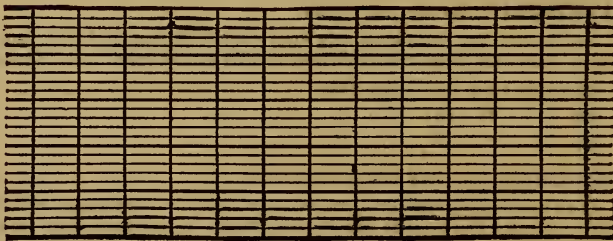
368. "SILK" Pencil Tracing Paper.

Will answer the purpose for Tracing where no strength or durability is required. This paper does not take Ink.

Roll, 50 yards long, 48 inches wide..... \$1.50

PROFILE PAPERS

Printed in Orange or Green.



PROFILE PAPER, PLATE A.

PLATE A. Horizontal divisions, 4 to the inch. Vertical divisions, 20 to the inch; every tenth horizontal and each fiftieth vertical division line heavier than the rest.

370. PLATE A. Sheets, 15 × 42 inches.....	quire, \$8.50	sheet, .40
371. " A. Rolls, 50 yards long, 22 inches wide.....	roll, 15.00	yard, .30
372. " A. Mounted on Muslin. In Rolls.....	"	.75

PROFILE PAPERS—Continued.

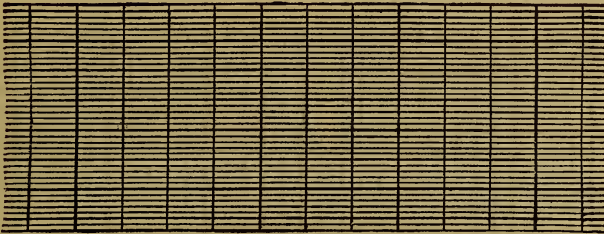


PLATE B. Horizontal divisions, 4 to the inch. Vertical divisions, 30 to the inch; each tenth horizontal and every twenty-fifth vertical division line heavier than the rest.

- 375. PLATE B. Sheets, 13 × 42 inches.....quire, \$8.50 sheet, .40
- 376. “ B. Rolls, 50 yards long, 22 inches wideroll, 15.00 yard, 30
- 377. “ B. Mounted on Muslin. In Rolls..... “ 75

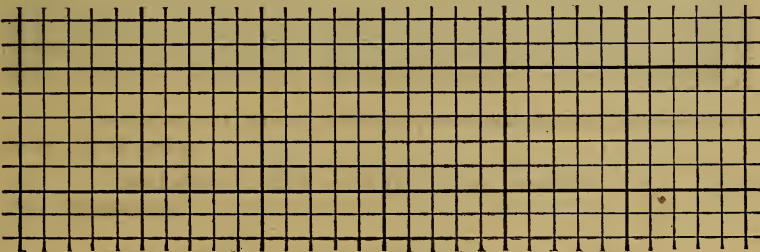
PLATE C. Horizontal divisions, 5 to the inch. Vertical divisions, 25 to the inch; each fifth horizontal, and every twenty-fifth vertical division line heavier than the rest.

- 380. PLATE C. Sheets, 15 × 42.....quire, \$8.50 sheet, .40

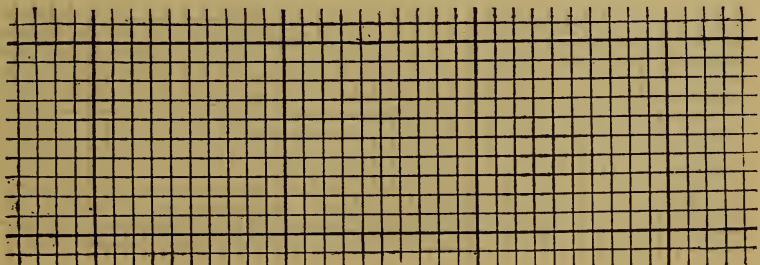
Profile Books, see Nos. 920 to 938.

CROSS SECTION PAPERS

Printed in Orange or Green.



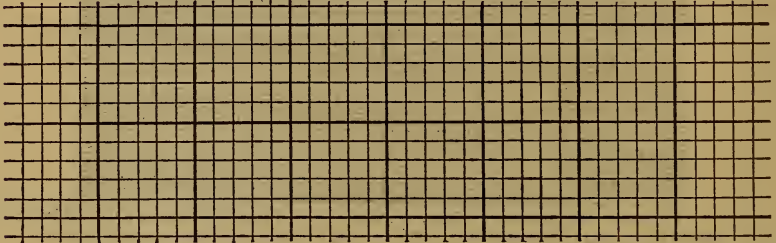
- 385. Cross Section, Printed, 8 × 8 to inch, size of Engraving, 16 × 22 inches,
quire, \$5.00 sheet, .25



- 386. Cross Section, Printed, 10 × 10 to inch, size of Engraving, 16 × 20 inches,
quire, \$5.00 sheet, 25

CROSS SECTION PAPERS—Continued.

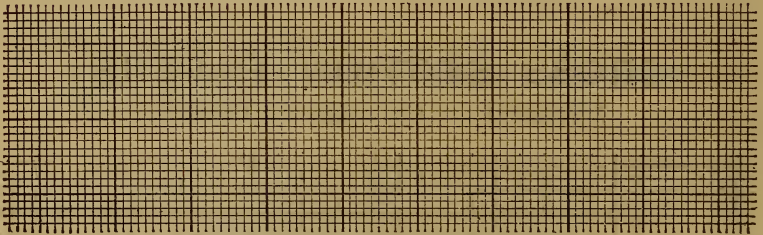
Printed in Orange or Green.



387. Cross Section, Printed, 5×5 to $\frac{1}{2}$ inch, size of Engraving, 16×20 inches,
 quire, \$5.00 sheet, .25

METRIC CROSS SECTION PAPER

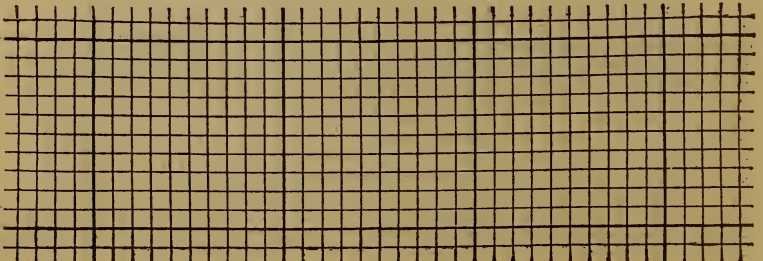
Printed in Orange.



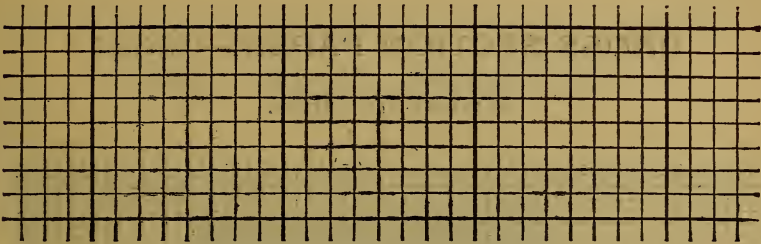
389. Cross Section, Printed, Millimeter, size of Engraving, 18×24 inches,
 quire, \$5.00 sheet, .25
- 389 $\frac{1}{2}$. “ “ Millimeter, in Rolls, 27 inches wide, 11 yards Long,
 roll, \$4.00 yard, .40

CROSS SECTION PAPERS

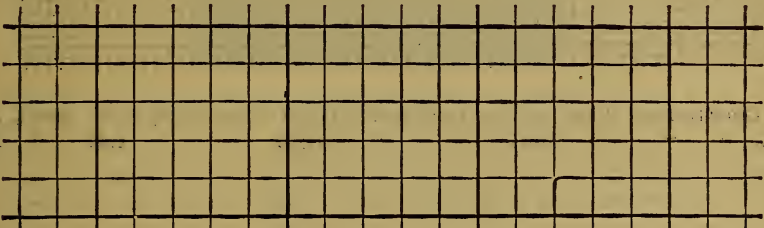
Ruled in Blue.



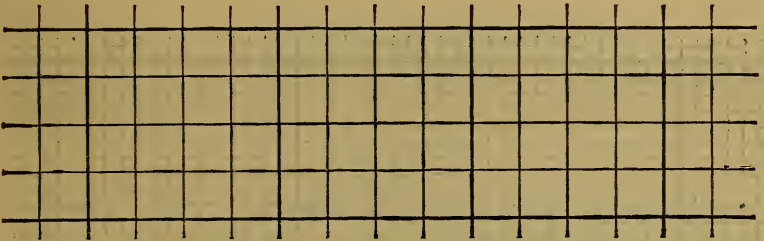
390. Cross Section, Ruled, 10×10 to inch, sheets, 17×22 inch., quire, \$1.50 sheet, .08
- 390 $\frac{1}{2}$. “ “ “ 10×10 “ “ 24×38 “ “ 4.45 “ .22



391. Cross Section, Ruled 8×8 to inch, sheets, 17×22 inches... quire, \$1.50 sheet, .08
 391½. " " " 8×8 " " 24×38 " " " 4.45 " .22

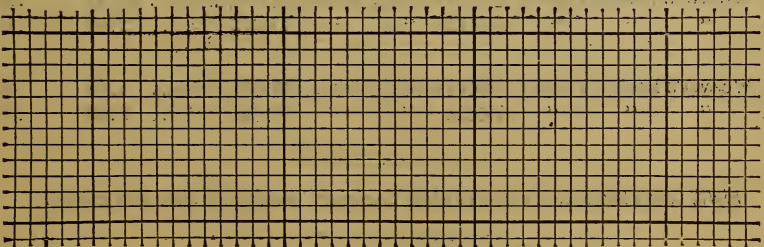


392. Cross Section, Ruled 5×5 to inch, sheets, 17×22 inches... quire, \$1.50 sheet, .08
 392½. " " " 5×5 " " 24×38 " " " 4.45 " .22



393. Cross Section, Ruled 4×4 to inch, sheets, 17×22 inches... quire, \$1.50 sheet, .08
 393½. " " " 4×4 " " 24×38 " " " 4.45 " .22

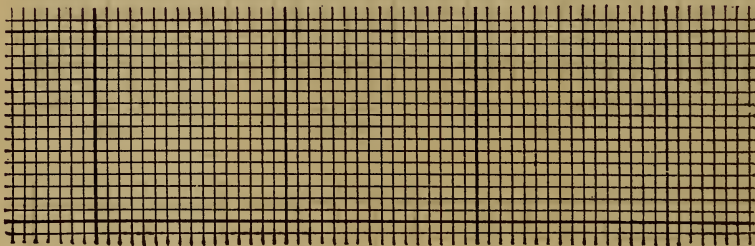
Also used for topographical drawing, reading 400 feet to the inch.
 The inch lines are BLUE, other lines RED.



394. Cross Section, Ruled 12×12 to inch, sheets, 19×24 inches. quire, \$2.00 sheet, .10
 394½. " " " 12×12 " " 23×36 " " " 4.45 " .22

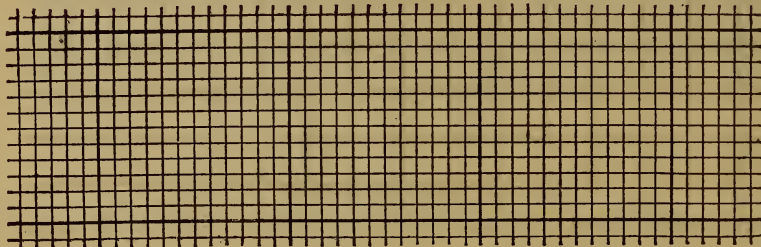
CROSS SECTION PAPER.—*Continued.*

Ruled in Blue.



395. Cross Section, Ruled 16×16 to inch, sheets, 19×24 inches, quire, \$2.00 sheet, .10
 395½. “ “ “ 16×16 “ “ 24×38 “ “ 4.45 “ .22

WEAVER'S DESIGN PAPERS.



Designs are in black lines.

						quire.	sheet.
396A.	Weaver's Design Papers,	12×12 to inch,	sheets,	23×36 inches..	\$4 45		.22
396B.	“ “ “	12×12 “ “	“ “	17×22 “ ..	2.00		.10
396c.	Weaver's Design Papers,	12×14 to inch,	sheets,	23×36 inches..	4.45		.22
396d.	“ “ “	12×14 “ “	“ “	17×22 “ ..	2.00		.10

Field, Cross Section, Profile and other Engineers' Books, see Nos. 800 to 938.

CROSS SECTION SKETCHING BLOCKS, see No. 14,340.

➤ SAMPLE BOOK of Blue Process Papers mailed on application

THE "BLUE PROCESS."

ALSO KNOWN AS

FERRO-PRUSSATE AND HELIOGRAPHIC PROCESS.

For producing Copies of Tracings in White Lines on a Blue Ground.

This design is printed from a wood cut and represents the general appearance of a "Blue Print."



All Lines Drawn with Black India Ink on Tracing Cloth will show distinctly in white on a blue ground.

Within the past few years the use of "Blue Prints" (copies of tracings by the Blue Process) has steadily increased. The *Low Price*, the *Rapidity with which they can be Produced*, and the *positive knowledge of having a fac-simile of the original* are but a few of the many advantages gained by using these copies. Iron Workers, Bridge Builders, Machinists, etc., use them extensively. At a comparatively small outlay copies of every part of the work can be freely distributed among the men, thus overcoming the disadvantage of compelling a number of persons to work and measure from one drawing. Architects acknowledge it to be economical and convenient to furnish sets of "Blue Print" copies to the Builder, Mason, Carpenter, Stone Cutter and others who desire estimating on structures. The necessity of calling at the Architect's office to examine the drawings or to await their turn in taking away the tracings is hereby obviated, and the contractors are enabled to estimate at their leisure.

The tracings are not injured or defaced, and can at any time be used for producing additional copies.

PRICE LIST

FOR PRODUCING

COPIES FROM TRACINGS BY THE "BLUE PROCESS."

TRACINGS IN BOLD BLACK LINES WILL PRODUCE PERFECT COPIES.

If possible, the tracings should be rolled, not folded. Water color causes tracing cloth to wrinkle. If tracings are not colored, the copies are more distinct.

	10 × 15	14 × 18	18 × 22	20 × 28	24 × 32	26 × 34	28 × 36 inches
Each Copy..	.15	.20	.25	.30	.35	.40	.45
	27 × 40	34 × 36	36 × 38	32 × 40	36 × 42	42 × 42	34 × 45 inches.
" ..	.45	.50	.60	.50	.65	.75	.60
	27 × 48	34 × 48	36 × 48	42 × 48	27 × 54	34 × 54	36 × 54 inches.
" ..	.60	.70	.80	.90	.85	1.00	1.20
	42 × 54	27 × 60	34 × 60	36 × 60	42 × 60	27 × 66	32 × 66 inches.
" ..	1.35	1.00	1.25	1.45	1.60	1.20	1.35

MONSTER SIZES.

	36 × 66	42 × 66	27 × 72	32 × 72	36 × 72	42 × 72 inches.
Each Copy..	1.50	1.80	1.35	1.60	1.85	1.95

Larger sizes at moderate rates.

A fair Blue Print can be made direct from a Patent Office Drawing on two-ply or three-ply Bristol Board.

➤ See next page.

TRACINGS COPIED BY THE "BLACK PROCESS" (Dark lines on a light ground).

Prices same as "Blue Prints."

Architects, Engineers, etc., in any part of the country, who have no facilities for making "Blue Prints," can send their tracings, stating number of copies required, from which the desired prints will be produced and promptly returned to sender.

"CRYSTALLINE" INK, WHITE AND RED,

(Same as No. 11,815.)

For Writing and Drawing on "Blue Prints."

It contains no acid injurious to steel pens, has the consistency of India Ink and can be used in a Ruling or Writing Pen.



Neat Polished Partitioned Box, containing 1 doz. bottles... \$1.90
 Neat Polished Partitioned Box, containing six bottles..... 1.00
 Bottle.... (List Price, 17c.) .15

"BLUE PROCESS" PAPERS.

Prepared ready for use.

DIRECTIONS FOR USING.

All Tracings should be drawn with Black India Ink, and the lines to be as heavy as possible.

A flat drawing or other board is covered with a blanket or any yielding material answering the purpose of a cushion. Place the prepared paper (prepared side up) on the blanket; then lay the tracing (face up) over the prepared paper, and, in order to press paper and tracing closely together, a piece of heavy plate glass is placed over the tracing, thus producing a perfect contact. Expose from five to ten minutes in a bright sun, and longer in cloudy weather or diffused light. No exact time for exposure can be stated. It is advisable to practice with small pieces of the prepared paper, by exposing them various lengths of time, say every consecutive minute from five to ten minutes, and note the relative results. After the paper has been exposed the proper length of time, the sheet is submerged in a shallow dish of clean water; where the light has acted upon the prepared paper, it will change to a rich blue, and where a line on the tracing prevented the action of the light, the chemical with which the paper is covered will wash off and the original white paper re-appears, thus producing a copy in *White Lines on a Blue Ground*. This copy is permanent.

Better results can be obtained with a Blue Printing Frame. See Nos. 650, etc.

“BLUE PROCESS” PAPERS.

Prepared ready for use.

(SEE DESCRIPTION ON PREVIOUS PAGE.)

The following grades of “Blue Process” Papers are all of own manufacture, and every roll or sheet is freshly prepared when sold.

The daily practice in making Blue Prints greatly adds to the experience of manufacturing Paper of good quality.

400. “ATLAS,” Extra Tough, Pliable and Strong Blue Process Papers, Prepared Ready for Use.

Will not tear when saturated with water, and will bear considerable folding without breaking. This Paper was awarded a “Medal of Excellence” by the American Institute Exhibition of 1882.

	54	48	42	36	31	27	20 in. Wide.
Roll 11 yards long....	\$7 00	6.25	5.50	4.75	4.00	3.50	3.00
“ 22 “	14.00	12.50	11.00	9.50	8.00	7.00	6.00

Other widths prepared to order.

405. “IMPERIAL,” Medium Thick, Blue Process Papers, Prepared Ready for Use.

		42	36	30	27	20 in. Wide.
Roll 10 yards long	\$4.75	4.00	3.25	2.75	2.50	
“ 20 “	9.50	8.00	6.50	5.50	5.00	

Other widths prepared to order.

410. “CONGRESS,” Medium Strong, Blue Process Papers, Prepared Ready for Use.

		48	42	36	30	27	20 in. Wide.
Roll 10 yards long	4.75	4.25	3.50	2.75	2.35	2.15	
“ 20 “	9.50	8.50	7.00	5.50	4.70	4.30	

Other widths prepared to order.

415. “DRAGON,” Extra Thin, Extra Strong, Blue Process Papers, Prepared Ready for Use.

Can be folded repeatedly without breaking, and is a desirable paper for mailing; being a saving on the postage.

		42	36	30	27	20 in. Wide.
Roll 10 yards long	\$4.00	3.25	2.50	2.25	1.85	
“ 20 “	8.00	6.50	5.00	4.50	3.70	

Other widths prepared to order.

450. “STAR,” Blue Process Papers, Prepared Ready for Use.

Antiquarian... 31×53 in.,	quire, \$13.00	Super Royal, 20×28 in.,	quire, \$3.00
Dbl. Elephant. 27×40 “ “	6.50	Royal. 19×24 “ “	2.50
Double Royal. 24×38 “ “	4.75	Medium. 17×22 “ “	2.00
Columbier.... 23×36 “ “	4.25	Demy. 16×21 “ “	1.50
Imperial. 23×31 “ “	3.75		

Other sizes prepared to order.

BLUE PROCESS
 "PAR EXCELLENCE" GUM.

Specially prepared for
 mixing with and thickening
 Blue Process Solution.

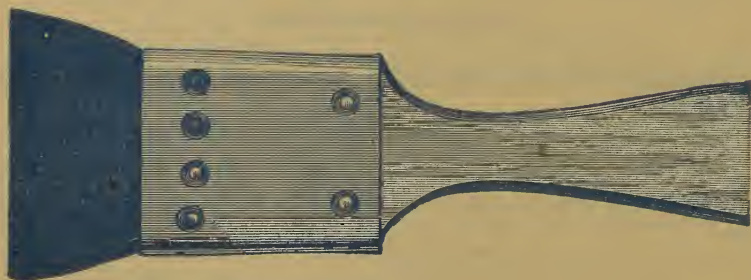
No. 490.



The solution is less liable
 to soak into the paper, and
 as more of the liquid re-
 mains on the surface, the
 prepared paper keeps longer
 and the Blue Prints are
 improved

Large Bottle, (Large Quart) . . . \$1.00 Medium Bottle, (Large Pint)50

BRUSHES FOR PREPARING
 BLUE PROCESS PAPERS.



Same as No. 13,710.

Flat Camel Hair Brushes, extra quality, for preparing Blue Process
 Papers. Stretching Drawing Papers, Letter Press Copies, etc.

	6	5	4	3 inch.
Each	\$2.75	2.20	1.65	1.12

Larger Sizes Made to Order at Short Notice.

NOT PREPARED BLUE PRINT PAPERS.

To avoid errors the Not Prepared Papers are termed

"BLUE PRINT PAPERS."

All prepared papers are called "BLUE PROCESS" Papers.

500. **"LINOLA"** Extra Hard Surface, Extra Tough. Not Prepared Blue Print Papers.

"Linola" is in many respects superior to other Blue Print Papers. It is strong and pliable, and adapted for severe usage in machine shops, buildings, etc. The surface is very hard; it absorbs but little of the chemicals, and consequently will keep in the prepared state for some time.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.
36 inches wide.....	\$22.00	11.25	6.90	4.80	2.50
30 " ".....	18.50	9.50	6.00	4.20	2.20
27 " ".....	16.00	8.25	5.00	3.60	1.90

503. **"VELVETEEN"** Very Strong, Smooth Surface. Not Prepared Blue Print Papers.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.
42 inches wide.....	\$22.00	11.25	6.90	4.80	2.50
36 " ".....	18.50	9.50	6.00	4.20	2.20
30 " ".....	16.00	8.25	5.00	3.60	1.90
27 " ".....	13.50	7.00	4.35	3.00	1.60

507. **"VULCAN"** Medium Thick. Not Prepared Blue Print Papers.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.
54 inches wide.....	\$22.70	11.35	7.50	5.00	2.65
42 " ".....	17.50	8.75	6.00	4.25	2.20
36 " ".....	15.30	7.65	5.00	3.25	1.85
27 " ".....	11.50	5.75	3.70	2.50	1.35
20 " ".....	9.00	4.50	3.00	2.15	1.15

510. **"CONGRESS"** Not Prepared Blue Print Papers.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.
42 " ".....	17.50	8.75	6.00	4.25	2.20
36 " ".....	15.30	7.65	5.00	3.25	1.85
30 " ".....	13.00	6.50	4.20	2.85	1.50
27 " ".....	11.50	5.75	3.70	2.50	1.35
20 " ".....	9.00	4.50	3.00	2.15	1.15

515. **"DRAGON,"** Extra Thin, Extra Strong, Not Prepared, Blue Print Papers.

Can be folded repeatedly without breaking, and is a desirable paper for mailing, causing a saving on postage.

	100 Yard.	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll.
42 inches wide.....	\$17.50	8.75	5.95	4.25	2.20
36 " ".....	15.30	7.65	4.80	3.25	1.85
30 " ".....	13.00	6.50	4.15	2.85	1.50
27 " ".....	11.50	5.75	3.60	2.50	1.35
20 " ".....	9.00	4.50	2.85	2.15	1.15

NOT PREPARED BLUE PRINT PAPERS.

Continued.

520. "ALEXIS," Medium Strength, Not Prepared, Blue Print Papers.

	100 Yard	50 Yard.	30 Yard.	20 Yard.	10 Yard Roll
36 inches wide... ..	\$11.00	5.75	3.60	2.50	1.30

525. "ARGAND," Medium Thin, Not Prepared, Blue Print Papers.

A low-priced paper, which answers all purposes, where no great amount of strength or durability is required.

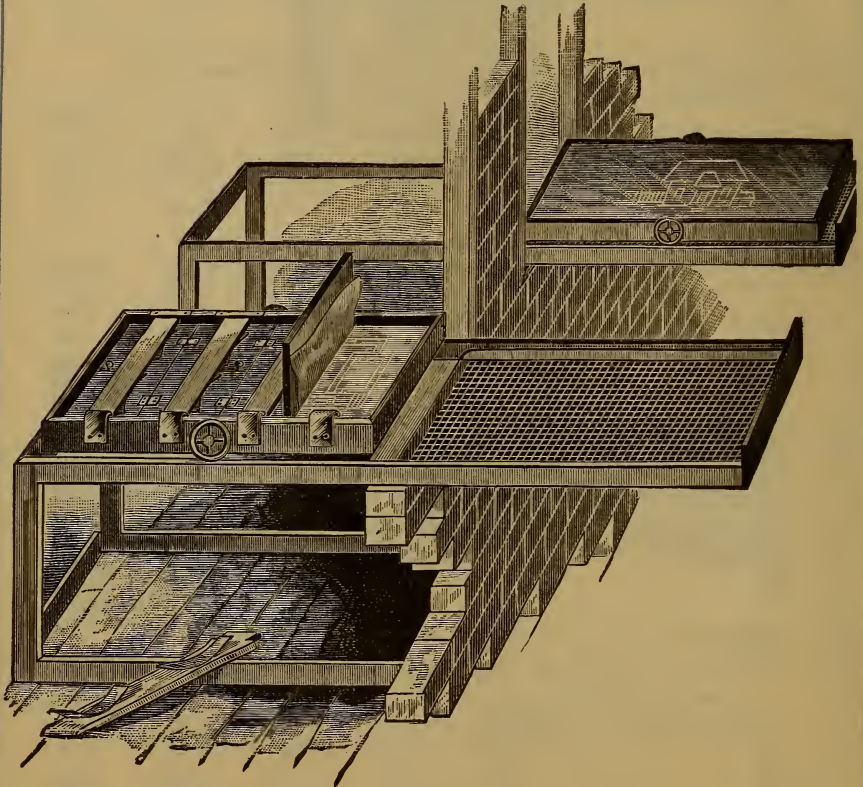
	200 Yard.	100 Yard.	50 Yard.	30 Yard.	20 Yard Roll.
36 inches wide.....	\$15.50	\$7.75	4.00	2.50	1.75

560. "DIAMOND," Not Prepared, Blue Print Papers.

Columbier ..	23×36 inch.,	quire,	\$1.75	Medium	17×22 inch.,	quire,	80
Imperial	23×31	" "	1.50	Demy.....	16×21	" "	60
Royal.....	19×24	" "	1.00				

BLUE PRINTING CASES OR FRAMES.

For copying Tracings by the "Blue Process."



The above cut represents Frames No. 650, with hollow wheels attached to sides, mounted on a track.

For Description, see next Page.

BLUE PRINTING

FRAMES OR CASES AND APPARATUS

FOR COPYING TRACINGS BY THE

“BLUE PROCESS.”

Blue Printing Frames consist of a shallow frame made of hardwood with a rabbet holding a piece of plate glass ; two or more (hinged) wooden panels (according to size) arranged so as to permit examination of the print without any possibility of changing its position in the case. The springs which press the panels and glass together are attached to cross-bars, held in position by self-acting clamps ; the cushion is of the best quality of felt about $\frac{1}{4}$ inch thick, which material is very soft and pliable, and assists in producing a perfect, even contact between tracing and the prepared paper.

The following prices are for complete Frames, WITHOUT hollow wheels or tracks, as shown in cut.

Extra Fine Quality ; made of hard wood, well finished, with extra powerful springs, numerous panels and crossbars, and in every respect of first-class workmanship.

Inside Measure.	Inside Measure,
650. 38×54 inches, Complete Frame, \$45.00	26×36 inches, Complete Frame, \$24.00
36×48 “ “ “ 38.00	30×30 “ “ “ 20.00
36×42 “ “ “ 35.00	24×30 “ “ “ 17.00
32×44 “ “ “ 30.00	22×28 “ “ “ 15.00
28×42 “ “ “ 27.00	20×24 “ “ “ 12.00

Any size made to order.

Large frames can be furnished with hollow wheels attached to the centre of each side. In this way the frame, if placed on a track, is easily turned and rolled into the light. Orders filled for large frames with side wheels and the complete track (SEE CUT). A frame so arranged can be handled by a small boy without danger of breaking the glass.

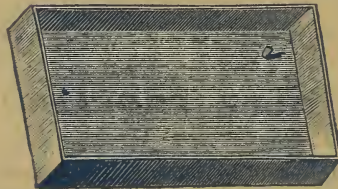
The exact available width of window and the measurement from the floor of the highest part of the window sill should be stated.

PRINTING CASES OR FRAMES

With Light Cushion.

Inside Measure.	Inside Measure.
680. 36×46 inches, Complete Frame, \$30.00	20×24 inches, Complete Frame, \$10.50
24×30 “ “ “ 15.00	
690. Printing Cases or Frames, Light Construction, Heavy Glass, Light Cushion.	
Inside Measure.	Inside Measure.
20×24 inches. . . Complete Frame, \$8.75	14×17 inches. . . Complete Frame, \$4.85
17×20 “ “ “ 5.75	11×14 “ “ “ 3.90

ZINC LINED BATHS,
FOR WASHING AND DEVELOPING
"BLUE PRINTS."



700. Extra quality, heavy zinc. The sizes of baths should be a few inches wider and longer than the Blue Printing Frame or glass.

In washing prints it is advisable to place them in the bath with the face up, and to move them back and forth occasionally.

Inches.	Each.	Inches	Each.
40×57, Inside Measure.....	\$9.75	27×38, Inside Measure.....	\$5.75
37×51, " "	8.75	31×32, " "	5.00
37×45, " "	8.00	25×32, " "	4.45
33×47, " "	7.25	23×30, " "	4.00
29×44, " "	6.50	21×26, " "	3.50

ZINC LINED BATHS.—Lighter Construction.

Inches.	Each.	Inches.	Each.
715. 37×48, Inside Measure.....	\$6.50	21×26, Inside Measure.....	\$3.00
31×42, " "	5.00	18×22, " "	2.50
25×32, " "	3.90	15×18, " "	2.00

HEAVY FELT

FOR

BLUE PRINTING FRAMES.

730. Felt, about ¼ inch thick, to use as a cushion in Blue Print Frames, or underneath a plate glass. It is soft and of uniform thickness and gives better satisfaction than a blanket.

	36 × 72	36 66	36 60	36 54	36 48	36 42	36 36	30 × 36	24 × 36 inches.
Each,	\$8.50	7.80	7.10	6.40	5.70	5.00	4.25	3.55	2.85

BLOTTING PAPER,

IN LARGE SHEETS,

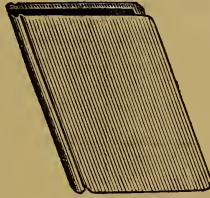
FOR DRYING "BLUE PRINTS."

Royal, 19 × 24 inches, Extra Quality.....quire, \$2.00 sheet, .10

ENGINEERS' NOTE BOOKS.

Horizontal Ruling only, similar to Field and Level Books

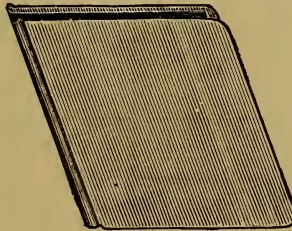
SEE NEXT PAGE.



780. $4\frac{1}{2} \times 7\frac{1}{2}$ inches, Leather Cover, Round Corners, 60 leavesdozen, \$4.50
 782. $4 \times 6\frac{1}{2}$ " " " " " 60 " " 4.00

ENGINEERS' CROSS SECTION BOOKS.

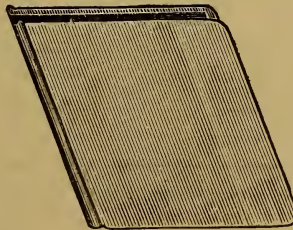
Ruled in Blue, 10 parts to the inch, every inch line heavier than the rest.



786. $6\frac{1}{2} \times 8\frac{1}{2}$ inches, Leather Cover, Round Corners, 80 leavesdozen, \$10.00
 788. $4\frac{1}{2} \times 7\frac{1}{2}$ " " " " " 80 " " 6.00

ARCHITECTS' "DIAGRAM BOOKS."

Ruled in squares, convenient for sketching plots of ground, sizes of rooms, etc. Every inch line heavier than the rest.



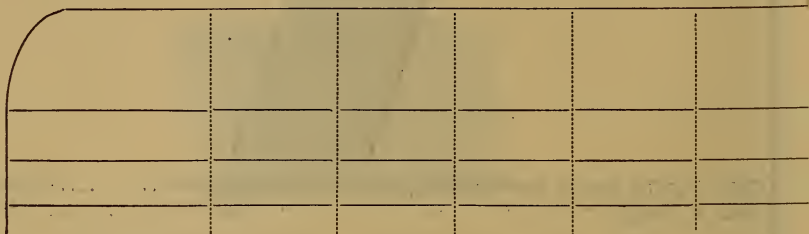
792. $6\frac{1}{2} \times 8\frac{1}{2}$ inches, Leather Cover, Round Corners, 80 leavesdozen, \$10.00
 794. $4\frac{1}{2} \times 7\frac{1}{2}$ " " " " " 80 " " 6.00

Cross Section Blocks, Same as No 14,340.

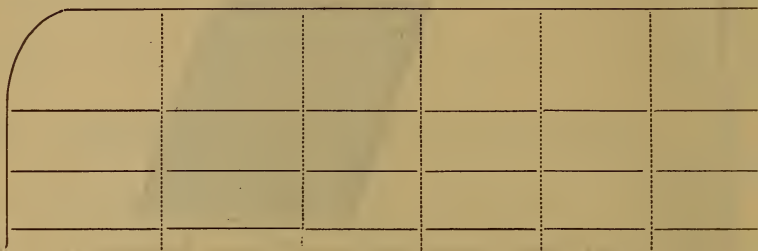
	16×20	10×16	8×10	4×5 inches
Each	\$3.00	1.75	1.00	.55

ENGINEERS' FIELD, LEVEL

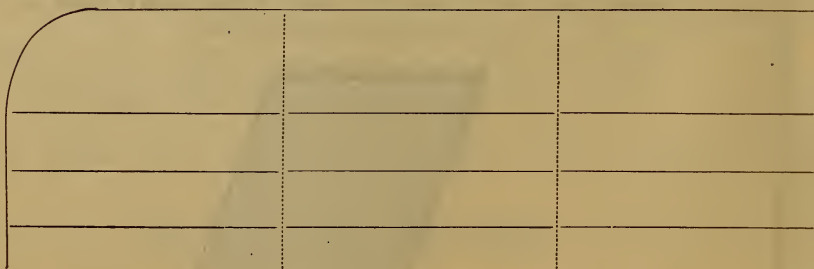
These books have round corners, are well bound, and have



800. "FIELD BOOKS," $4\frac{1}{2} \times 7\frac{1}{2}$ inches, Leather Covers,
802. " " " $4\frac{1}{2} \times 7\frac{1}{2}$ " " "



810. "LEVEL BOOKS," $4 \times 6\frac{1}{2}$ inches, Leather Covers,
812. " " " $4 \times 6\frac{1}{2}$ " " "



820. "TRANSIT BOOKS," $4\frac{1}{2} \times 7\frac{1}{2}$ inches, Leather Covers,
822. " " " $4\frac{1}{2} \times 7\frac{1}{2}$ " " "

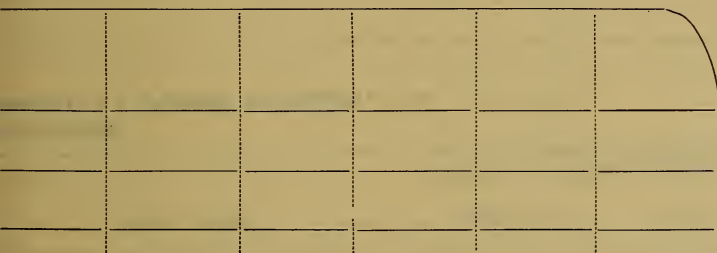
Any style of Engineers' Books

AND TRANSIT BOOKS.

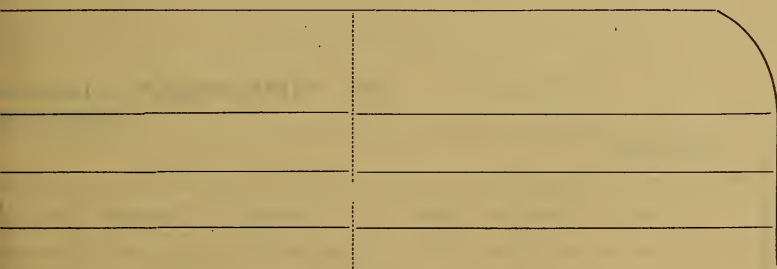
the words "Field Book," etc. printed on the outside of cover.



Round Corners, 80 leavesdozen, \$6.00
 " " 60 " " 4 50



Round Corners, 80 leavesdozen, \$5.50
 " " 60 " " 4.00



Round Corners, 80 leavesdozen, \$6.00
 " " 60 " " 4.50

made to order in any quantity.

HYDROGRAPHIC

Sounding, Tide and Angle Records, which are fac-similes

A few alterations and additions have been made which will probably be acknowledged. The pages are *numbered consecutively* from 1 to 100. An *index* of four pages is indexes on the fly leaves. The word *locality* is printed at the head of left hand page of the. The paper is of the best quality which will bear erasing, but it is *not highly glazed*, so These books have been extensively introduced into many of the United States proper columns and printed headings for the classification of reduced Tides and Soundings. The Tidal Records contain space for meteorological data, thereby making the record of

SAMPLE SHEETS OF THESE BOOKS

SOUNDINGS							
Year.....		Month.....		Date of Month.....			
No.	TIME	SOUNDINGS		RED. FOR TIDE.	REDUCED SOUNDINGS		BOTTOM
		Feet	Tenths		Feet	Tenths	
		Fathom	Feet	Feet	Fathom	Feet	

900. "SOUNDING BOOKS," 4 × 13 inches,
Special rates

OBSERVATIONS OF TIDES at								
Year.....		Month.....		Day of Month.....				
MEAN TIME OF OBSERVATION		READING OF TIDE STAFF		WIND		BAROMETER		REMARKS
Hrs.	Min.	Feet	Dec's	Dirac.	Force	Ins.	Dec's	

902. "TIDE BOOKS," 4 × 13 inches,
Special rates

LOCALITY			
No.	TIME	ANGLES	OBJECTS OBSERVED

904. "ANGLE BOOKS," 4 × 13 inches,
Special rates

SURVEYING BOOKS.

of those used by the United States Coast Survey.

as improvements, viz.:

inserted in the fore part of each book, thus saving the labor and inconvenience of marking Angle Books.

as to show the pencil marks to better advantage.

Engineers' Departments in various parts of the country. They are ruled with the to mean low water.

the survey systematic and complete.

MAILED ON APPLICATION.

ANGLES AND RANGES	REMARKS

strong cover, 100 leaves.....dozen, \$10.50
for quantities.

OBSERVATIONS OF TIDES at

Year.....Month.....Day of Month.....

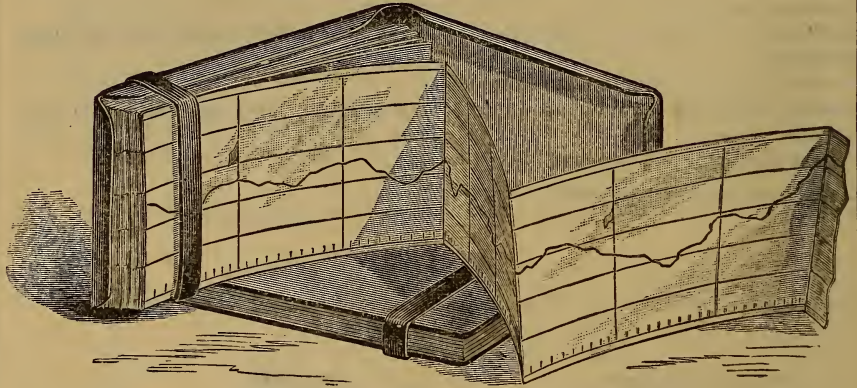
MEAN TIME OF OBSERVATION		READING OF TIDE STAFF		WIND		BAROMETER		REMARKS
Hrs.	Min.	Feet	Dec's	Direc.	Force	Ins.	Dec's	

strong cover, 100 leaves.....dozen, \$10.50
for quantities.

STATION OCCUPIED	REMARKS

strong cover, 100 leaves.....dozen, \$10.50
for quantities.

PROFILE BOOKS.



These books are printed upon tough thin sheets of linen parchment paper, which will take color and stand erasures, and mounted upon a continuous piece of muslin, with close joints evenly matched to present a continuous profile of any desired length and bound in book form, with an index printed on the back of each fold, showing the Station and Section Numbers, thus giving a ready reference to any part of the profile.

The Books of "Plate A" show a profile of 100 feet in width, on a horizontal scale of 4 and vertical of 20 to an inch; size of book is $5\frac{1}{2} \times 8$ inches.

The Books of "Plate B" show a profile of 125 feet in width, on a horizontal scale of 4 and vertical of 30 to an inch; size of book is $4\frac{3}{4} \times 8$ inches.

920. Continuous Profile Books, PLATE A, Bound in Flexible Morocco Cover.

	100	50	25	15 miles.
Each.....	\$8.00	5.00	3.00	2.50

926. Continuous Profile Books, PLATE B, Bound in Flexible Morocco Cover.

	100	50	25	15 miles.
Each.....	\$8.00	5.00	3.00	2.50

POCKET PROFILE BOOKS.

Every two pages facing, contain six thousand feet, equal to an average section, as laid out for construction of Railroads. The book is convenient for carrying in the pocket, or for office use, and is more easily handled than a long roll of profile paper. Size of book, $5\frac{3}{8} \times 8\frac{1}{2}$ inches. The paper is strong and heavy, and printed on both sides.

932. Pocket Profile Books, PLATE A, Bound in Flexible Morocco Cover.

	100	50	25 leaves.
Each.....	\$5.00	3.50	2.50

938. Pocket Profile Books, PLATE B, Bound in Flexible Morocco Cover.

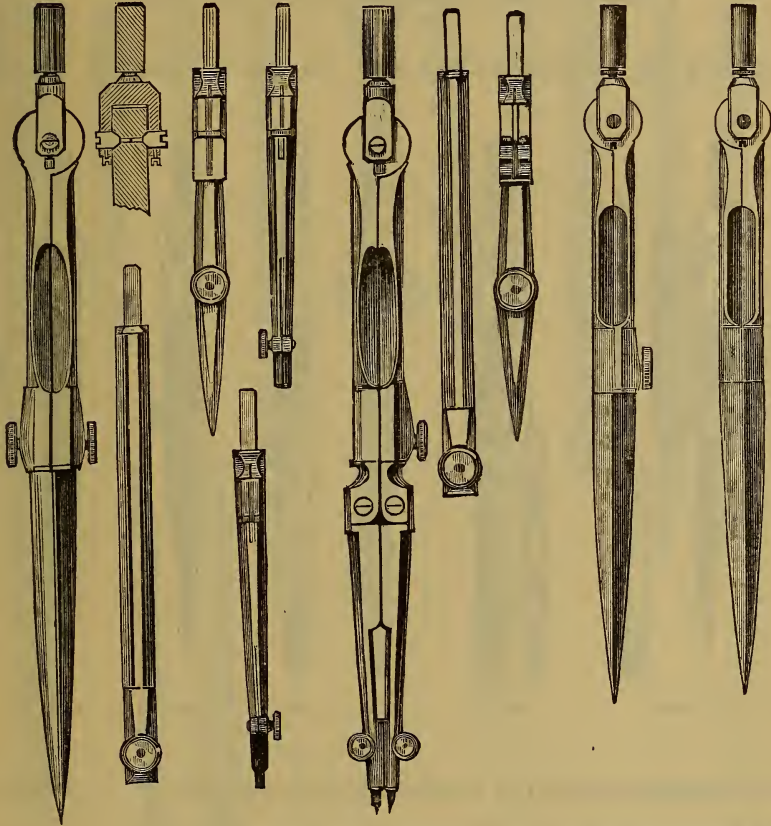
	100	50	25 leaves.
Each.....	\$5.00	3.50	2.50

Profile and Cross Section Papers, See Nos. 370 to 396.

SWISS PIVOT JOINT INSTRUMENTS.

Made of Selected German Silver and Best English Steel.

ALL PENCIL POINTS ARRANGED TO HOLD FABER'S ARTISTS' LEADS.



No. 1000.

1002, 1003.

1004, 1005.

1008, 1009.

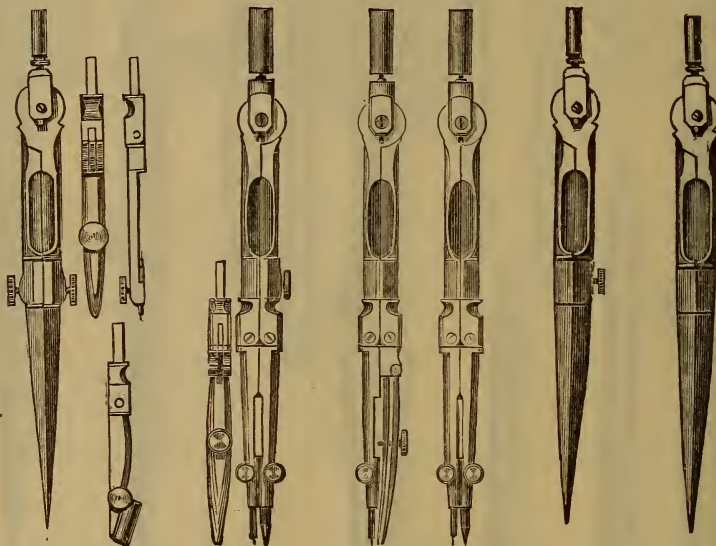
- | | |
|--|--------------|
| 1000. Compasses, 6 inch, with Pen, Pencil, Lengthening Bar, Needle and Divider Points..... | each, \$8.50 |
| 1002. Compasses, 6 inch, with Pen, Pencil, Lengthening Bar and Fixed Needle Point..... | " . 7.50 |
| 1003. Compasses, 4 1/2 inch, with Pen, Pencil, Lengthening Bar and Fixed Needle Point..... | " 7 00 |
| 1004. Hair Spring Dividers, 6 inch..... | " 4.00 |
| 1005. Hair Spring Dividers, 5 inch..... | " 3.50 |
| 1008. Dividers, 6 inch..... | " 3.25 |
| 1009. Dividers, 5 inch..... | " 2.75 |

SWISS PIVOT JOINT INSTRUMENTS,

Continued.

Made of Selected German Silver and Best English Steel.

ALL PENCIL POINTS ARRANGED TO HOLD FABER'S LEADS.



No. 1012.

1014.

1016.

1018.

1020.

1022.

1012.	Compasses, 3½ inch, Pen, Pencil, Needle and Divider Points.....	each, \$6.85
1014.	Compasses, 3½ inch, Pen, Pencil and Fixed Needle Point.....	“ 6.00
1016.	Bow Pen, 3½ inch, Fixed Needle Point.....	“ 4.50
1018.	Bow Pencil, 3½ inch, “ “ “	“ 4.25
1020.	Hair Spring Dividers, 3½ inch.....	“ 3.00
1022.	Dividers, 3½ “	“ 2.25

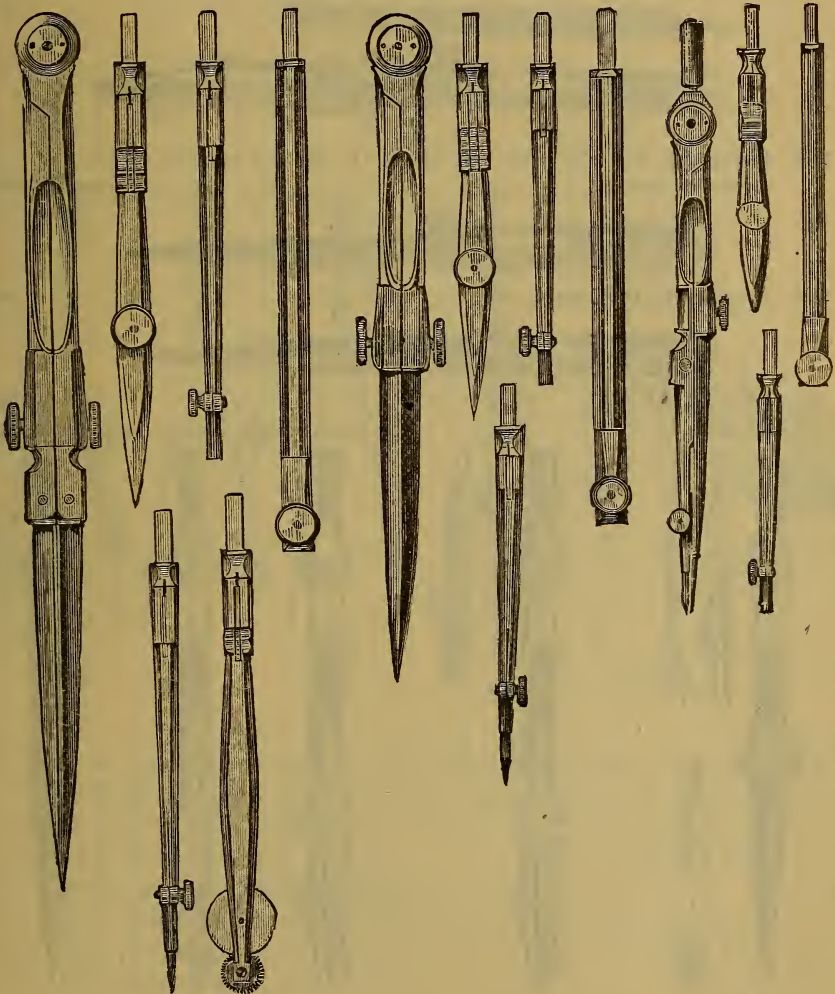
Steel Spring Bows and Ruling Pens to match, see Nos. 1124, etc.

Instruments Repaired, see Description after No. 2470.

EXTRA FINE SWISS INSTRUMENTS.

Made of Selected German Silver and Best English Steel.

ALL PENCIL POINTS ARRANGED TO HOLD FABER'S LEADS.



No. 1030.

1034.

1038.

- | | | |
|-------|---|---------------|
| 1030. | Compasses, 7 inch with Joint in each Divider Point, Pen, Pencil, Needle Point, Lengthening Bar and Dotting Pen..... | each, \$10.75 |
| 1034. | Compasses, 6 inch, with Pen, Pencil, Lengthening Bar, Needle and Divider Points..... | “ 8.00 |
| 1038. | Compasses, 4½ inch, with Pen, Pencil, Lengthening Bar, Divider and Fixed Needle Point..... | “ 7.25 |

EXTRA FINE SWISS INSTRUMENTS,

Continued.

ALL PENCIL POINTS ARRANGED TO HOLD FABER'S LEADS.



No. 1040.

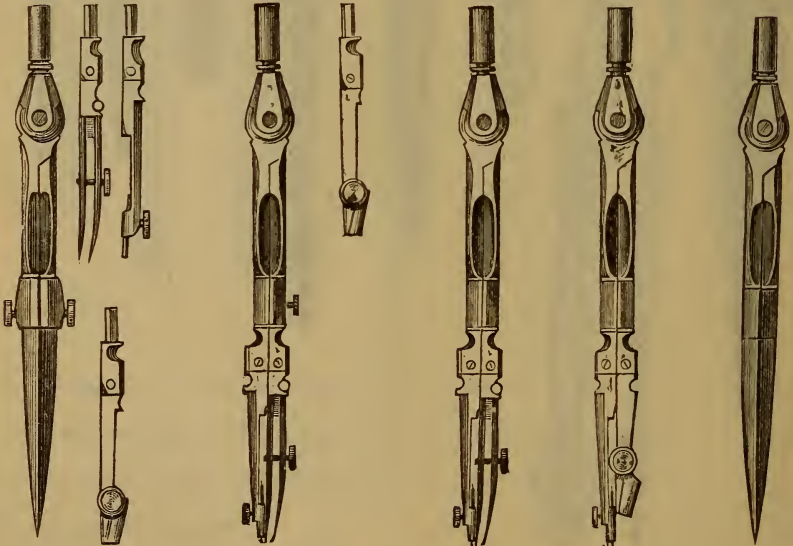
1040. Compasses, 5½ inch, with Pen, Pencil, Lengthening Bar and Fixed Needle Point..... each, \$7.00



1044. Hair Spring Dividers, 5 inch..... " 3.00



1048. Dividers, 6 inch..... " 2.75
 1050. Dividers, 5 "..... " 2.20



No. 1060.

1062.

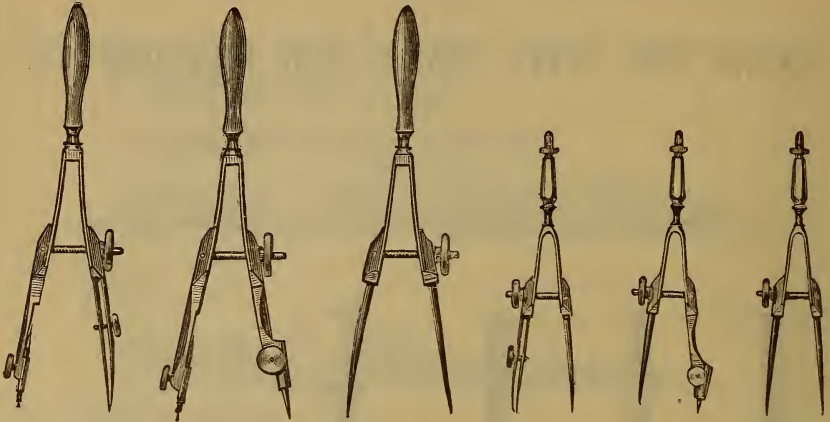
1066.

1068.

1074.

1060. Bow Compasses, 3½ inch, with Handle, Pen, Pencil, Needle and Divider Points..... \$6.00
 1062. Bow Compasses, 3½ inch, with Handle, Pen, Pencil, fixed Needle Point. 5.25
 1066. Bow Pen, 3½ inch, with Handle and fixed Needle Point..... 3.50
 1068. Bow Pencil, 3½ " " " " " "..... 3.50
 1074. Dividers, 3½ " " " " " "..... 1.75

EXTRA FINE SWISS INSTRUMENTS.



No. 1160. 1166. 1172.	1161. 1167. 1173.	1162. 1168. 1174.	1190.	1191.	1192.	Each.
1160. Steel Spring Bow Pen,	4 3/4 inches, Ivory Handles,	Needle Point.....	\$3.25			
1161. Steel Spring Bow Pencil,	4 3/4 " " " " " "	" " " " " "	3.25			
1162. Steel Spring Bow Dividers,	4 3/4 " " " " " "	" " " " " "	2.75			
1166. Steel Spring Bow Pen,	3 1/2 " " " " " "	Needle Point.....	3.00			
1167. Steel Spring Bow Pencil,	3 1/2 " " " " " "	" " " " " "	3.00			
1168. Steel Spring Bow Dividers,	3 1/2 " " " " " "	" " " " " "	2.60			
1172. Steel Spring Bow Pen,	3 " " " " " "	Needle Point.....	2.85			
1173. Steel Spring Bow Pencil,	3 " " " " " "	" " " " " "	2.85			
1174. Steel Spring Bow Dividers,	3 " " " " " "	" " " " " "	2.20			
1190. Miniature Bow Pen,	2 1/2 " Metal	" " " " " "	2.50			
1191. Miniature Bow Pencil,	2 1/2 " " " " " "	" " " " " "	2.50			
1192. Miniature Bow Dividers,	2 1/2 " " " " " "	" " " " " "	2.20			
Morocco Cases for sets of	4 3/4 " Bows.....	" " " " " "	1.25			
" " "	3 1/2 " " " " " "	" " " " " "	1.00			
" " "	3 " " " " " "	" " " " " "	.90			



1250. Ruling Pen, with Hinge and Pin, Ivory Handle, 6 1/4 inch..... each, \$2.00



1251. Ruling Pen, with Hinge and Pin, Ivory Handle, 5 1/2 inches.....each, \$1.80



1252. Ruling Pen, with Hinge and Pin, Ivory Handle, 4 3/4 inches.....each, \$1.60

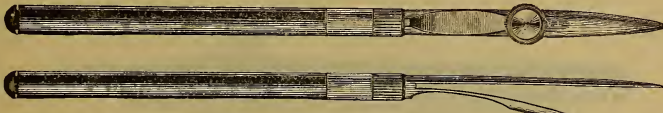
1253. Ruling Pen, " " " " " " 4 1/4 "..... " 1.50



1254. Ruling Pen, with Hinge, Ivory Handle, 4 inches.....each, \$1.40

1256. Ruling Pen, no Hinge, Ebony Handle, 5 "..... " 1.12

**RULING PENS WITH SPRING BLADE,
NO HINGE.**



- 1270. Ruling Pen, with Improved Bent Spring Blade, Ebony Handle, 6 in., each, \$2.00
- 1271. Ruling Pen, " " " " " " " " 5 1/4 " " 1.85
- 1272. Ruling Pen, " " " " " " " " 4 1/2 " " 1.70

RULING PENS WITH EBONY HANDLES.



- 1280. Ruling Pen, no Hinge, Ebony Handle, 6 inch.....each, 1.85



- 1281. Ruling Pen, no Hinge, Ebony Handle, 5 1/4 inch. " 1.70



- 1282. Ruling Pen, no Hinge, Ebony Handle, 4 1/2 inch " 1.55

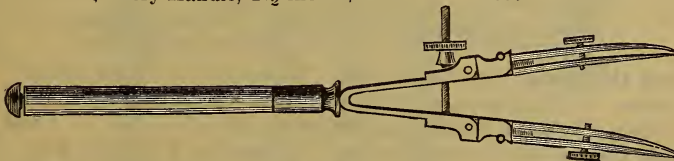
EXTRA FINE SWISS INSTRUMENTS.



- 1306. Border Pen for heavy lines, Ivory Handle, 6 1/2 inch.....each, \$3.00



- 1310. Curve Pen, Ivory Handle, 4 1/2 incheach, 1.25



- 1316. Railroad Pen, new style, Ivory Handle, 5 1/2 inch.....each, 3.75

Both Blades face the same way. The inside blade can be pressed closely to the T Square, Triangle, etc.



- 1334. Dotting Pen, new style, with 6 Wheels, Ivory Handle, 6 incheach, \$4.25

The lower portion of the pen forms a metal case which is closed by screwing down the upper hinged blade. The case is filled with ink which is carried to the paper by the revolving wheel.

EXTRA FINE SWISS INSTRUMENTS.

Continued.

ALL PENCIL POINTS ARRANGED TO HOLD FABER'S LEADS.



No. 1340.

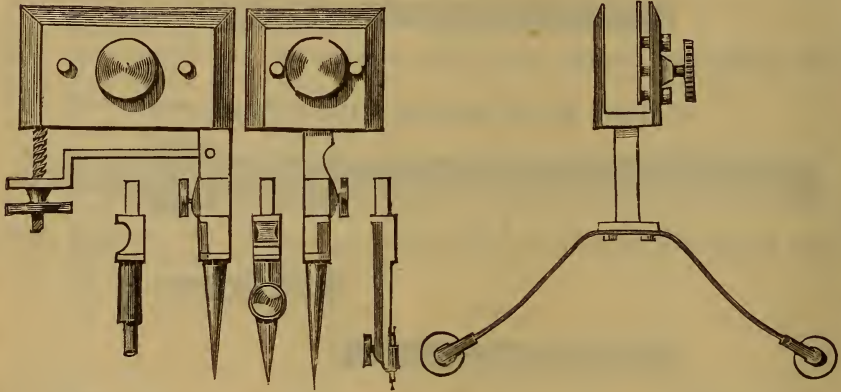
- 1340. Tracer, Ivory Handle, 5 inches.....each, \$1.35
- 1342. Tracer, made of Ivory, 4 " " 1.00



No. 1344.

- 1344. Pricker, Ivory Handle, 5 incheseach 1.75
- Ruling Pens carefully Sharpened..... " .20

SWISS BEAM COMPASSES WITH TANGENT AND WHEEL ATTACHMENT.



No. 1356-7.

1360.

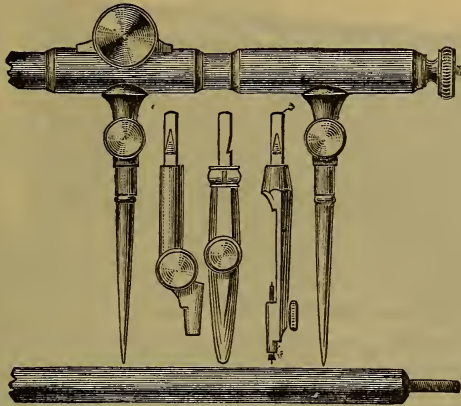
- No. 1350. Case containing Beam Compasses and Wheel Attachment.
- " 1351. Beam Compass and Wheel Attachment, without Case.

- 1350. Beam Compasses, Improved Pattern. To fasten to a Straight Edge or Bar, with Tangent Attachment, Pen, Pencil, Needle and two round Points, also Wheel Attachment, complete in case. each, \$12.75
- 1351. Beam Compasses, Improved Pattern. To fasten to a Straight Edge or Bar, with Tangent Attachment, Pen, Pencil, Needle and two round Points, also Wheel Attachment, complete without case.....each, 11.25
- 1356. Beam Compasses, in case..... " 10.00
- 1357. Beam Compasses, without case " 9.00
- 1360. Wheel Attachment, to fasten to a Straight Edge or Bar. The instrument overcomes the necessity of placing the Beam Compasses on its side when not in use.each, 2.25

Wooden Bars for Beam Compasses. Same as 6200.

	72	60	48	42	36	30	24	inch.
Each,	.90	.75	.65	.55	.45	.40	.35	

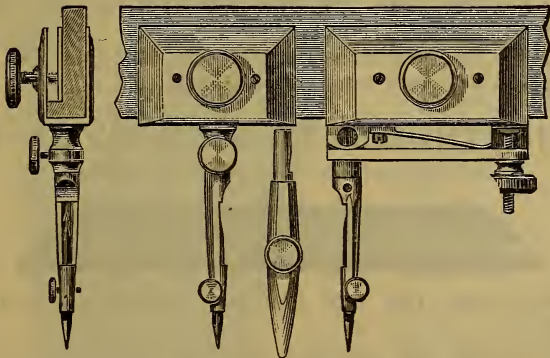
TUBULAR BEAM COMPASSES.



1370-1374.

- 1370. Tubular Beam Compasses in 4 Sections, 36 inches long, with Pen, Pencil, Needle and 2 round Pointseach, \$17.00
 - 1372. Tubular Beam Compasses in 3 Sections, 21 inches long..... “ 11.75
 - 1374. Tubular Beam Compasses in 2 Sections, 20 inches long..... “ 10.30
- | | | | |
|-------------------|--------|------|------|
| Morocco Cases for | 1370 | 1372 | 1374 |
| Each.... | \$2.50 | 1.75 | 1.50 |

BEAM COMPASSES WITH TANGENT SCREW.

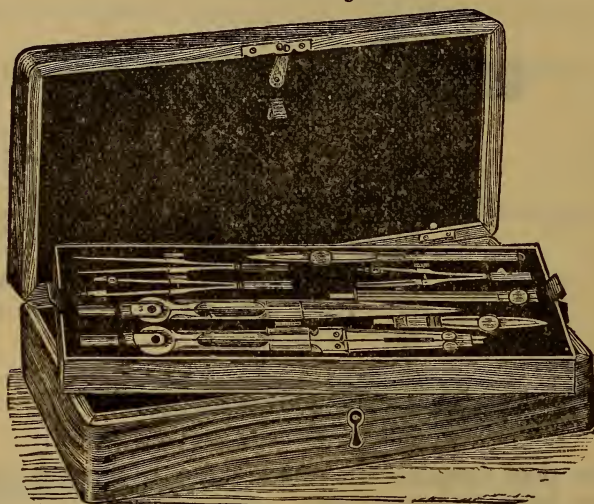


- 1380. Beam Compasses, to fit a Straight Edge or Bar, with Pen, Pencil and Needle Points each, \$8.75
 - 1382. Beam Compasses, Small, with Pen, Pencil and Needle Points..... “ 8.25
- | | | |
|---------------------------------------|---|------|
| Morocco Cases for 1380 and 1382. | “ | 1.00 |
|---------------------------------------|---|------|

Instruments Repaired, see Description Page 63.

CASES OF SWISS INSTRUMENTS

WITH PIVOT JOINTS



No. 1410.

IN POLISHED ROSEWOOD BOXES,

With Tray, Lock and Key.

	Each.
1400. Contents: Nos. 1000, 1005, 1008, 1016, 1018, 1022, 1124, 1125, 1126, 1136, 1137, 1138, 1250, 1270, 1271, 1272, 1306, 1316, 1340, 1360, 1380.....	\$80.00
1402. Contents: Nos. 1000, 1005, 1016, 1018, 1022, 1130, 1131, 1132, 1142, 1143, 1144, 1250, 1270, 1271, 1272, 1340, 1380.....	65.00
1404. Contents: Nos. 1000, 1005, 1012, 1022, 1136, 1137, 1138, 1250, 1251, 1252, 1253, 1272, 1340, 1380.....	55.00
1406. Contents: Nos. 1000, 1009, 1016, 1018, 1136, 1137, 1138, 1251, 1252, 1254, 1281.....	40.00
1408. Contents: Nos. 1002, 1009, 1014, 1136, 1137, 1138, 1251, 1252.....	33.50
1410. Contents: Nos. 1002, 1009, 1136, 1137, 1138, 1251.....	25.00

SWISS INSTRUMENTS WITH PIVOT JOINTS.

In Morocco Pocket Cases.



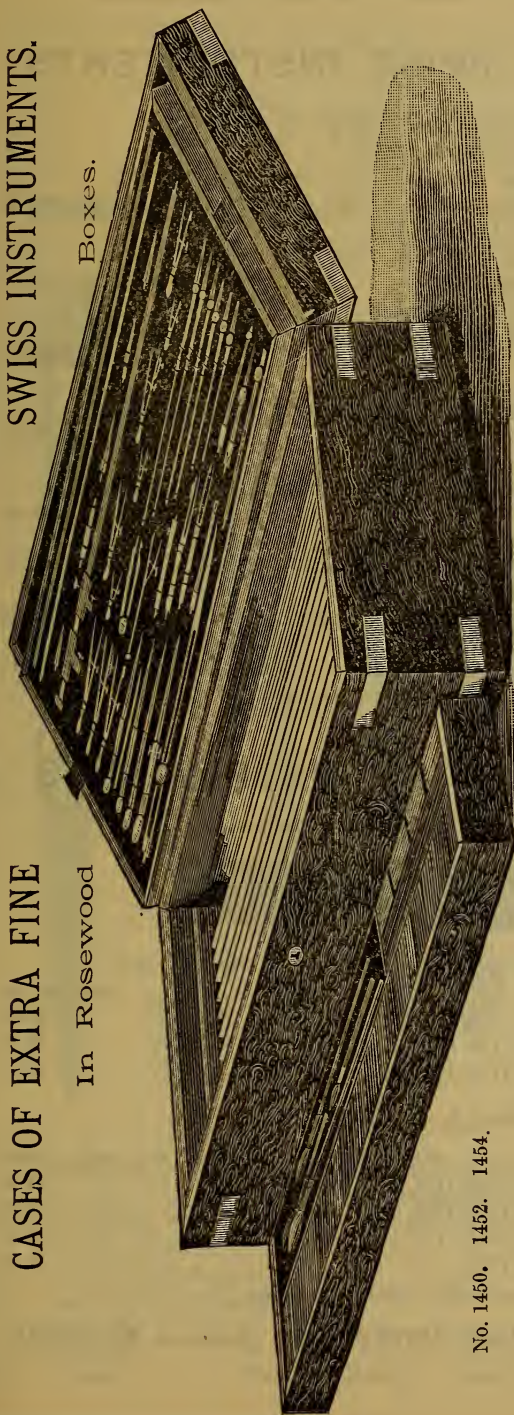
	Each.
1414. Contents: Nos. 1000, 1005, 1016, 1018, 1022, 1136, 1137, 1138, 1251, 1252, 1254.....	\$38.50
1416. Contents: Nos. 1000, 1009, 1014, 1136, 1137, 1138, 1251, 1252.....	30.00
1418. " " 1003, 1008, 1012, 1136, 1251, 1253.....	25.00
1420. " " 1002, 1009, 1136, 1137, 1138, 1251.....	22.00
1422. " " 1002, 1009, 1014, 1251.....	20.00
1424. " " 1002, 1009, 251.....	13.50
1426. " " 1016, 1018, 1022, 1142, 1143, 1144, 1252, 1254.....	23.75
1428. " " 1016, 1018, 1022, 1136, 1252.....	17.00
1430. " " 1012, 1142, 1253.....	12.75

CASES OF EXTRA FINE

In Rosewood

SWISS INSTRUMENTS.

Boxes.



No. 1450. 1452. 1454.

- 1450. Fine Rosewood Case, German Silver Bands and Corners;** arranged to hold scales, and having a drawer partitioned for Colors, Brushes, etc. Contents: 8 Architects or Engineer's Scales, Ivory Protractor, German Silver Protractor, German Silver Horn Centre, 2 doz. best Tacks, 12 Winsor & Newton's Colors, 12 Brushes, Cake of fine black India Ink, Ink Slab, Color Sancers, 4 Rubber Triangles, 4 Rubber Curves, 6 Pencils, 3 Rubbers, 2 Ink Erasers, Crayon Holder, Box of Siberian Leads, 2 Artist's Pencils, Red India Ink, Blue India Ink, Tack Lifter, 1 doz. Crow Quill Pens, 2 Pencil Pointers, Pocket Magnifying Glass, and the following Instruments: Nos. 1030, 1038, 1044, 1050, 1066, 1068, 1074, 1124, 1125, 1126, 1136, 1137, 1138, 1150, 1166, 1167, 1168, 1190, 1191, 1192, 1250, 1251, 1252, 1253, 1254, 1270, 1271, 1272, 1306, 1310, 1316, 1334, 1340, 1344, 1370, 1378, 1640, 1660. each, \$200 00
- 1452. Fine Rosewood Case, German Silver Bands and Corners.** Contents same as No. 1450, and the following instruments: Nos. 1030, 1038, 1044, 1050, 1066, 1068, 1074, 1124, 1125, 1126, 1172, 1173, 1174, 1190, 1191, 1192, 1250, 1251, 1252, 1253, 1254, 1306, 1310, 1316, 1334, 1340, 1344, 1357, 1360, 1640. each, 160.00
- 1454. Fine Rosewood Case, German Silver Bands and Corners** in style same as No. 1450. Contents: Nos. 1030, 1038, 1044, 1050, 1066, 1068, 1074, 1124, 1125, 1126, 1172, 1173, 1174, 1190, 1191, 1192, 1250, 1251, 1252, 1253, 1254, 1306, 1310, 1316, 1334, 1340, 1344, 1357, 1360, 1640. each, 125 00

EXTRA FINE SWISS INSTRUMENTS

In Rosewood Cases (*Continued*).

1460. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1030, 1038, 1044, 1050, 1066, 1068, 1074, 1172, 1173,
 1174, 1250, 1251, 1252, 1254, 1306, 1316, 1357, 1360, 1648.....each, \$90.00
1462. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1038, 1044, 1050, 1062, 1172, 1173, 1174, 1250,
 1251, 1252, 1254, 1357, 1360, 1648. " 70.00
1464. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1044, 1062, 1074, 1142, 1160, 1172, 1173, 1174,
 1250, 1251, 1252, 1254..... " 50.00
1466. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1050, 1062, 1172, 1173, 1174, 1251, 1253, 1357,
 1360..... " 45.00
1468. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1044, 1066, 1068, 1074, 1172, 1173, 1174, 1251,
 1252, 1254..... " 40.00
1470. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1040, 1050, 1060, 1172, 1173, 1174, 1251..... " 32.00
1472. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1050, 1172, 1173, 1174, 1251..... " 25.00
1474. **Rosewood Case**, with Tray, Lock and Key.
 Contents: Nos. 1034, 1050, 1172, 1252..... " 18.75

Other Cases made to order at short notice.

EXTRA FINE SWISS INSTRUMENTS

In Fine Pocket Cases.



1480. Contents: Nos. 1034, 1044, 1066, 1068, 1074, 1172, 1173, 1174, 1251,
 1252, 1254 each, \$35.00
1482. Contents: Nos. 1034, 1050, 1060, 1172, 1173, 1174, 1251, 1253..... " 30.00
1484. Contents: Nos. 1034, 1050, 1172, 1173, 1174, 1251.... " 22.00
1486. Contents: Nos. 1040, 1050, 1172, 1252... " 15.50

VERY SMALL POCKET CASES.

1490. Contents: Nos. 1038, 1044, 1066, 1068, 1172, 1173, 1174, 1252, 1254..each, 30.00
1491. Contents: Nos. 1038, 1050, 1060, 1172, 1252, 1254..... " 23.00
1492. Contents: Nos. 1038, 1050, 1172, 1252..... " 15.50
1493. Contents: Nos. 1066, 1068, 1074, 1172, 1253..... " 14.50
1494. Contents: Nos. 1060, 1172, 1253..... " 11.75

Other Cases made to order at short notice.

CHAMOIS SKINS FOR CLEANING INSTRUMENTS (*Same as No. 17,910*).

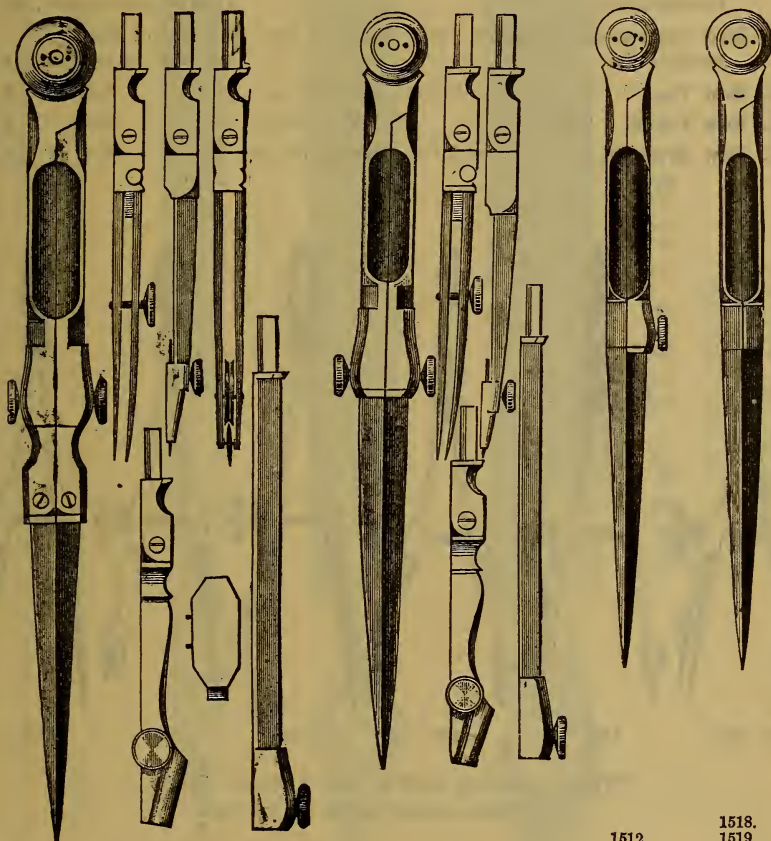
Medium, 30c.

Small, 20c. each.

SWISS INSTRUMENTS of lighter and more delicate construction, with and without Pivot Joints. See Nos. 1000, etc.

SWISS INSTRUMENTS.

GERMAN SILVER AND ENGLISH STEEL.



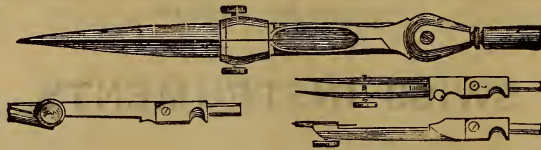
No. 1500.

1504.

1512.
1513.

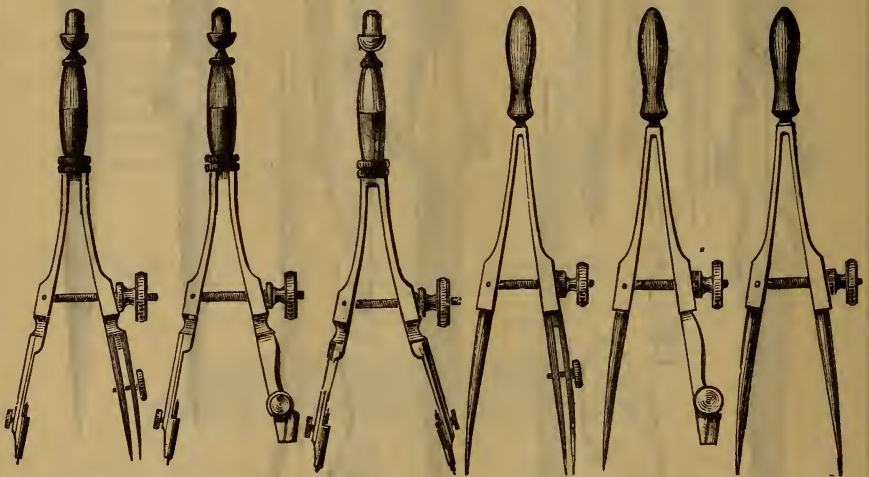
1518.
1519.
1520.

- | | | |
|-------|---|--------|
| 1500. | Compasses, 6½ inches, with Joint in each Divider Point, Pen, Pencil, Lengthening Bar, Dotting Pen and Needle Point, (List Price, \$10.00) each, | \$9.00 |
| 1504. | Compasses, 6 inches, with Pen, Pencil, Lengthening Bar, Needle and Divider Points..... (List Price, \$7.25) | “ 6.50 |
| 1512. | Hair Spring Dividers, 5 inches..... (“ “ 2.70) | “ 2.50 |
| 1513. | Hair Spring Dividers, 4 “..... (“ “ 2.50) | “ 2.25 |
| 1518. | Dividers, 6 “..... (“ “ 2.60) | “ 2.35 |
| 1519. | Dividers, 5 “..... (“ “ 2.00) | “ 1.75 |
| 1520. | Dividers, 4 “..... (“ “ 1.65) | “ 1.50 |



No. 1530.

- 1530. Bow Compasses, 3½ inches, with Handle, Pen, Pencil, Needle and Divider Points.....(List Price \$5.50) each, \$5.00
- 1532. Bow Compasses, 3½ inches, with Handle, Pen, Pencil and fixed Needle Point.....(List Price, \$5.00) each, 4.50
- 1536. Bow Pen, 3½ inches, with fixed Needle Point ... (“ “ 3.25) “ 3.00
- 1537. Bow Pencil, 3½ “ “ Needle Point.... (“ “ 3.25) “ 3.00
- 1538. Bow Dividers, 3½ “ with two Needle Points... (“ “ 3.25) “ 3.00



No. 1550. 1551. 1552. 1560. 1561. 1562.

STEEL SPRING BOWS, Nos. 1124 to 1192,
Are of lighter and more delicate construction.

- | | | |
|----------------------------------|--|--------|
| 1550. Steel Spring Bow Pen, | 3 inches, Ivory Handle, Needle Point, | Each. |
| | (List Price, \$2.70) | \$2.50 |
| 1551. Steel Spring Bow Pencil, | 3 inches, Ivory Handle, Needle Point, | |
| | (List Price, \$2.70) | 2.50 |
| 1552. Steel Spring Bow Dividers, | 3 “ Ivory Handle, two Needle | |
| | Points.....(List Price, \$2.70) | 2 50 |
| 1560. Steel Spring Bow Pen, | 3 inches, Ivory Handle..(List Price, \$2.10) | 1.90 |
| 1561. Steel Spring Bow Pencil, | 3 “ “ “ “ .. (“ “ 2.10) | 1.90 |
| 1562. Steel Spring Bow Dividers, | 3 “ “ “ “ .. (“ “ 1.65) | 1.50 |

E. G. SOLTSMANN.

“VICTOR”
(Registered Trade Mark.)
RULING PEN.



LARGE SIZE.



MEDIUM SIZE.



SMALL SIZE.

FOR DETAIL DRAWING AND GENERAL USE.

Above cuts represent the full size of each Pen. These Pens hold considerable ink, and need not be filled as often as small pens.

Large.....	each, (List Price, \$1.65), \$1.50
Medium.....	“ “ “ 1.40 1.25
Small.....	“ “ “ 1.12 1.00

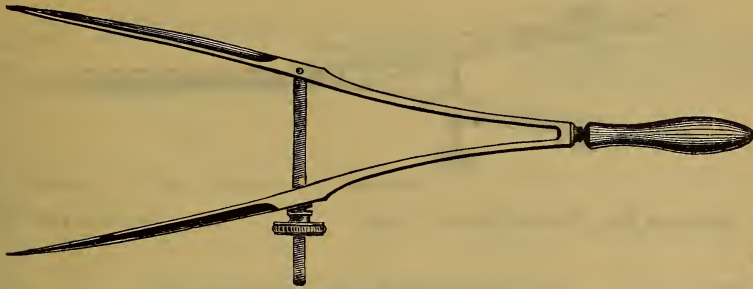
THE UNIVERSITY OF CHICAGO

LIBRARY



BULLING BEN

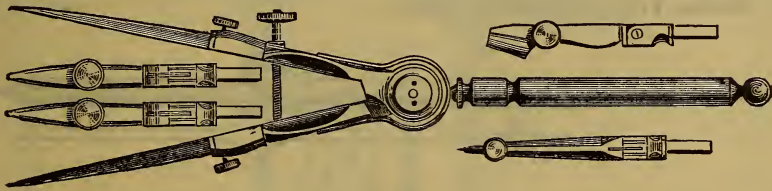
UNIVERSITY



No. 1570.

Each.

1570. Large Steel Spring Dividers, 5¾ inches, Ivory Handle (List Price, \$2.70) \$2.50



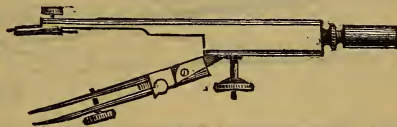
No. 1578.

Each.

1578. Spring Bow Compasses, with Detachable long Ivory Handle and Divider Points, two Pen Points, Pencil and Needle Points. (List Price, \$7.75) \$7.00



No. 1582.



No. 1584.

Each.

1582. German Silver Spring Bow Pen and Pencil. (List Price, \$3.30) \$3.00

1584. German Silver Spring Bow Pen. (" 2.20) 2.00



1600



1602



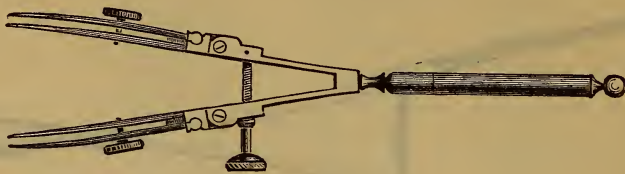
1604

Each.

1600. Ruling Pen, with Hinge and Pin, Ivory Handle, 6 inches. . . (List Price, \$1.75) \$1.60

1602. Ruling Pen, " " " " 5 " " . . . (" 1.55) 1.40

1604. Ruling Pen, " " " " 4½ " " . . . (" 1.35) 1.25



No. 1620.

1620. Railroad Pen, Hinged Blades, 5 inches (List Price, \$3.25) **\$3.00** Each.



No. 1624.

1622. Dotting Pen, with 6 Wheels, Ivory Handle, 6 inches (List Price, \$3.60) **\$3.25** Each.

1624. Dotting Pen, Ivory Handle, 6 inches (" 2.20) **2.00**



No. 1640.

1640. Proportional Dividers, with Micrometer Adjustment, 9½ inches, graduated for lines and circles (List Price, \$13.25) **\$12.00** Each.



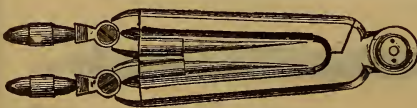
No. 1644.

1644. Proportional Dividers, with Rack Movement, 9 inches, graduated for lines and circles (List Price, \$11.60) **\$10.50** Each.



No. 1648.

1648. Proportional Dividers, 9 inches, graduated for lines and circles, (List Price, \$11.00) **\$10.00** Each.



No. 1660.



No. 1660.

1660. Pocket Pillar Compasses, with Handles, Pen and Pencil Points, to draw out and can be used as small bow instruments (List Price, \$8.85) **\$8.00** Each.



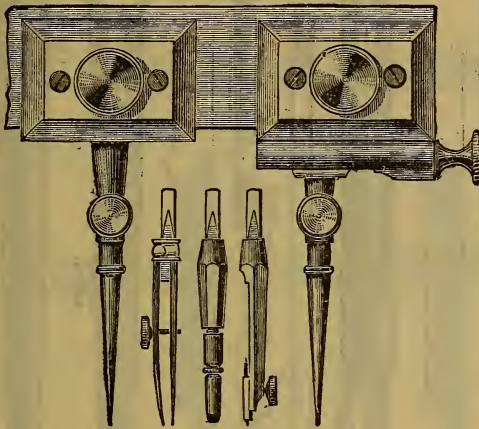
No. 1664.



No. 1664.

Each.

1664. Pocket Folding Compasses, with Pen and Pencil Points . . (List Price, \$8.00) \$7.25



No. 1670.

Each.

1670. Beam Compasses, to fit a Straight Edge or Bar, with Pen, Pencil, Needle and Round Points.....(List Price, \$7.50) \$6.75

Morocco Case for do..... 1.00

WOODEN BARS

FOR BEAM COMPASSES.

(SAME AS No. 6200.)



	72	60	48	42	36	30	24 inches.
Each..	.90	.75	.65	.55	.45	.40	35

CHAMOIS SKINS FOR CLEANING INSTRUMENTS (same as No. 17,910).

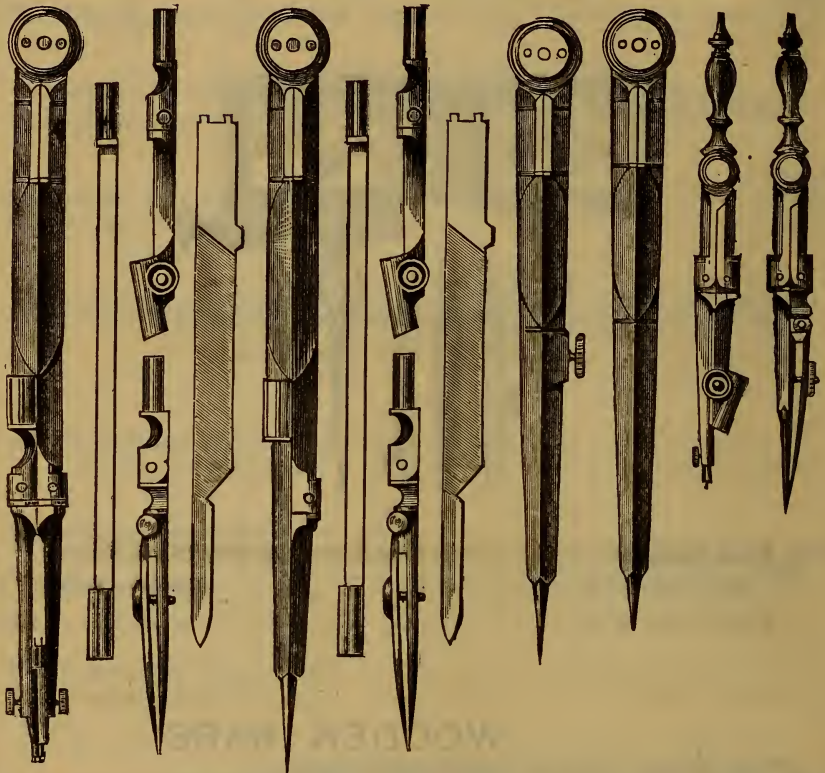
Medium, 30c. Small, 20c. each.

Repairing Instruments, see page 63.

ENGLISH INSTRUMENTS,

SUPERIOR QUALITY.

German Silver, Double Sector Joints. All attachments have bayonet slides.



No. 1700.

1704.

1710.

1714.

1721.

1726.

	Each.
1700. Compasses, 6 inches, with joint in each leg, one Needle Point fixed, the other detachable, Pen, Pencil Points, Lengthening Bar and Knife Key,	\$12.50
1704. Compasses, 6 inches, with Pen, Pencil Points, Lengthening Bar and Knife Key.....	10.00
1706. Compasses, 4½ inches, with fixed Needle Point, Pen and Pencil Point,	9.75
1710. Hair Spring Dividers, 5 inches.....	3.00
1714. Dividers, 5 inches.....	2.00
1720. Bow Pen, fixed Needle Point, 3½ inches.....	3.90
1721. Bow Pencil, " " 3½ ".....	3.90
1726. Bow Pen, Round Point, 3½ inches.....	3.25
1727. Bow Pencil, " 3½ ".....	3.25

ENGLISH INSTRUMENTS,

Continued.



Nos. 1750-1752.

The Square Handle prevents the Pen from rolling off the drawing table.

	Each
1750. Ruling Pen, with Hinge, square Ivory Handle, 6½ inches.....	\$2.25
1751. Ruling Pen, " " " " 5½ "	2.00
1752. Ruling Pen, " " " " 4½ "	1.75



No. 1760-1762.

	Each.
1760. Ruling Pen, with Hinge, Ivory Handle, 6½ inches.....	\$2.00
1761. Ruling Pen, " " " " 5½ "	1.75
1762. Ruling Pen, " " " " 4½ "	1.50



No. 1770-1772.

	Each.
1770. Ruling Pen, no Hinge, Ivory Handle, 6½ inches.	\$1 50
1771. Ruling Pen, " " " " 5½ "	1.35
1772. Ruling Pen, " " " " 4½ "	1.25



No. 1780.

	Each.
1780. Tracer, Ivory Handle, 5 inches.....	\$1.00



No. 1782.

1782. Pricker, Ivory Handle, 5 inches.....	1.50
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No. 1790.

1790. Curve Pen, New Pattern.....	each \$2.00
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By loosening the screw at end of handle, the bar running through the hollow centre acts as a pivot for the pen, which will follow any curve readily without blotting the edges of the curve ruler.

If the upper screw is fastened, it can be used as a Drawing Pen, and is useful for ruling into corners and for fine work.

Cases of English Instruments put up to Order.

CHAMOIS SKINS FOR CLEANING INSTRUMENTS (same as No. 17,910).

Medium, 30c. Small, 20c. each.

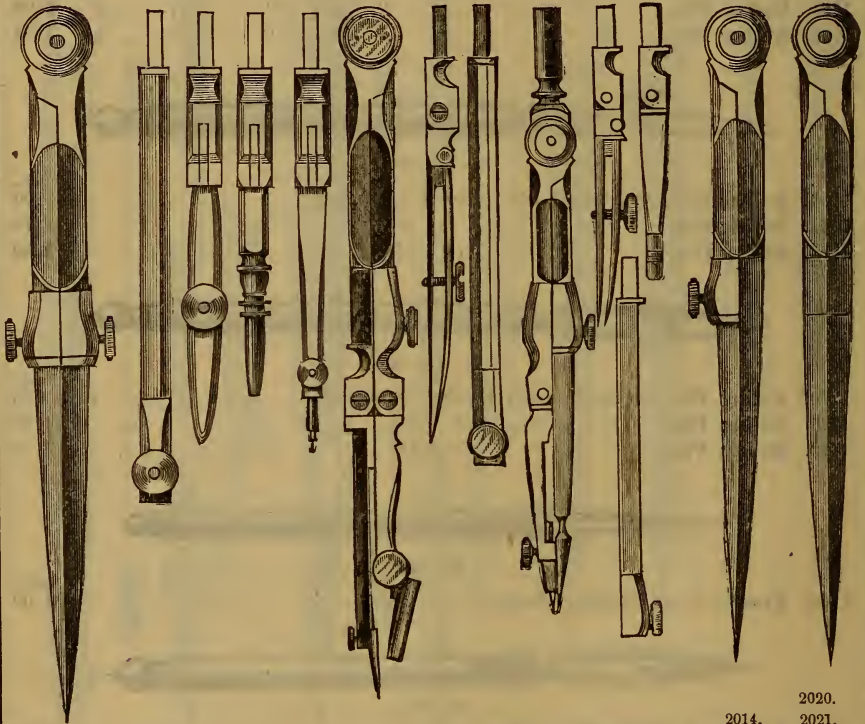
Repairing Instruments, see page 63.

EXTRA FINE GERMAN INSTRUMENTS,

Made of Superior German Silver and Steel.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.

(Second quality of German Instruments, see Nos. 2400 to 2470.)



No. 2000.

2006.

2010.

2014.
2015.

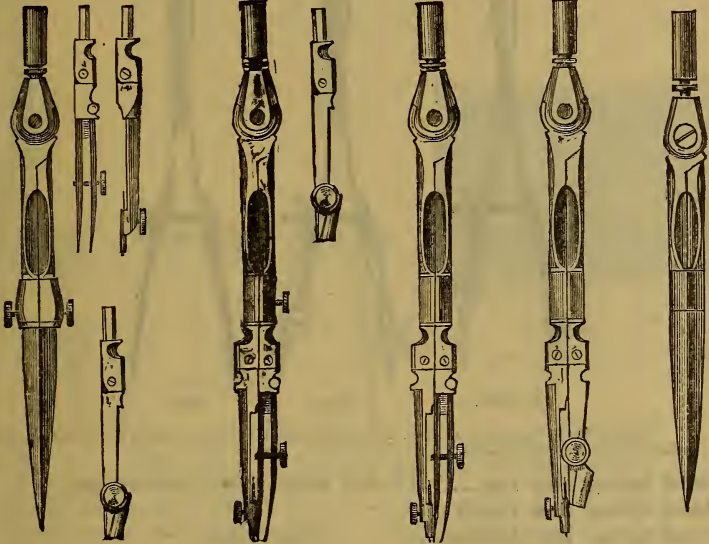
2020.
2021.
2022.

	Each.
2000. Compasses, 5½ inches, with Pen, Pencil, Lengthening Bar, Needle and Divider Points.....	\$4.00
2006. Compasses, 5½ inches, with Pen, Pencil, Lengthening Bar and fixed Needle Points.....	3.50
2010. Compasses, 4½ inches, with Handle, Pen, Pencil, Lengthening Bar, Divider and fixed Needle Points.....	3.75
2014. Hair Spring Dividers, 6 inches.....	2.10
2015. Hair Spring Dividers, 5 ".....	1.90
2020. Dividers, 6 inches.....	1.12
2021. Dividers, 5 ".....	1.00
2022. Dividers, 4 ".....	.90

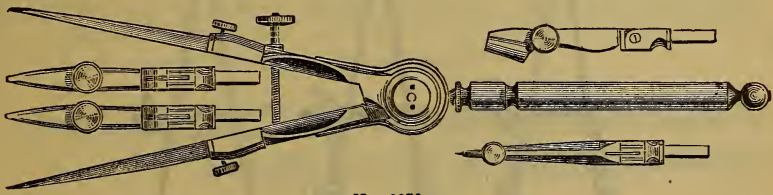
EXTRA FINE GERMAN INSTRUMENTS,

Continued.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2030.	2036.	2040.	2042.	2060.	
2030. Bow Compasses, 3½ inches, with Handle, Pen, Pencil, Needle and Divider Points.....					Each. \$3.00
2036. Bow Compasses, 3½ inches, with Handle, Pen, Pencil and fixed Needle Point.....					2.65
2040. Bow Pen, 3½ inches, with Handle and fixed Needle Point.....					2.20
2042. Bow Pencil, 3½ " " " " " " " ".....					2.20
2060. Bow Dividers, 3½ " " " " " " " ".....					1.00



No. 2070.

2070. Spring Bow Compasses, with detachable long Ivory Handle, two Pen Points, Pencil, Needle and Divider Points.....	Each. \$4.75
---	--------------



No. 2074.

2075.

2074. German Silver Spring Bow Pen and Pencil, 3 inches.....	Each. \$2.75
2075. German Silver Spring Bow Pen, 3 inches.....	1.80

EXTRA FINE GERMAN INSTRUMENTS,

Continued.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2080.



2082.



2084.

Spring Bow Instruments Nos. 2080, 2082 and 2084 are of extra fine German make, and shaped like the Swiss Bows.

2080. Steel Spring Bow Pen.....	3 inches, Needle Point, White Handle.....	Each. \$2.00
2082. Steel Spring Bow Pencil....	3 " " " " " "	2.00
2084. Steel Spring Bow Dividers..	3 " Round Points, " "	1.55



No. 2090.
2100.



2092.
2102.



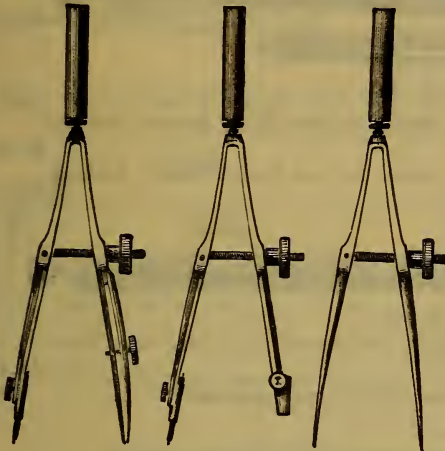
2094.
2104.

2090. Steel Spring Bow Pen.....	3 inches, Needle Point, White Handle.....	\$1.60
2092. Steel Spring Bow Pencil....	3 " " " " " "	1.60
2094. Steel Spring Bow Dividers..	3 "	1.25
2100. Steel Spring Bow Pen	3½ " Needle Point, White Handle.....	1.60
2102. Steel Spring Bow Pencil....	3½ " " " " " "	1.60
2104. Steel Spring Bow Dividers..	3½ "	1.25

EXTRA FINE GERMAN INSTRUMENTS.

Continued.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



SET OF BOWS
IN MOROCCO CASE.

- | | | | |
|---|-----------------------|---------------|----------------------------|
| No. 2110. | 2112. | 2114. | |
| 2110. Steel Spring Bow Pen, | 3½ inch, | Needle Point, | Metal Handle. each, \$1.70 |
| 2112. Steel Spring Bow Pencil, | 3½ " " | " " " " | " " " " 1.70 |
| 2114. Steel Spring Bow Divider, | 3½ " " | Round Points, | " " " " 1.25 |
| 2120. Morocco Case, containing Set of Bows, | 2080, 2082, 2084..... | | " 6.60 |
| 2122. Morocco Case, containing Set of Bows, | 2090, 2092, 2094..... | | " 5.40 |
| 2124. Morocco Case, containing Set of Bows, | 2100, 2102, 2104..... | | " 5.40 |
| 2126. Morocco Case, containing Set of Bows, | 2110, 2112, 2114..... | | " 6.25 |
| Empty Morocco Cases for German Spring Bows..... | | | " .75 |



2156. Ruling Pen, with Knife Blade, convenient for ruling into corners or for drawing heavy and light lines without adjusting the screw, by pressing more or less of the beveled edge on the paper..... Each. \$1.65



No. 2160, 2162.

- | | | | |
|---|-----------|-------|--------------|
| 2160. Ruling Pen, with Hinge and Pin, White Handle, | 5½ inches | ..... | Each. \$1.00 |
| 2161. Ruling Pen, " " " " " " | 4¾ " " | ..... | .90 |
| 2162. Ruling Pen, " " " " " " | 4 " " | ..... | .80 |



No. 2170.

2170. Cluster Pen, with 3 Blades, for one White Handle, 5½ inches..... \$1.75

EXTRA FINE GERMAN INSTRUMENTS,

Continued.



No. 2180.

- | | |
|---|-----------------|
| 2180. Cluster Hatching Pen, with 3 Blades, for one Ebony Handle, Pushing Screw, 6 inches..... | Each.
\$2.25 |
| 2182. Cluster Hatching Pen, with 1 Blade, for one Ebony Handle, Pushing Screw, 6 inches..... | 1.50 |



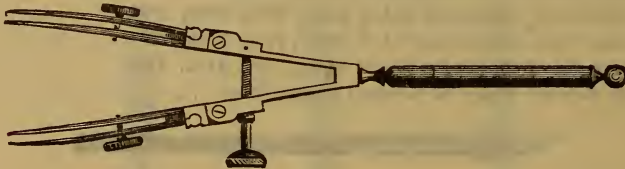
No. 2190.

- | | |
|---|--------|
| 2190. Ruling Pen, German Silver Blades, for Colored Inks, with Hinge, White Handle, 5 inches..... | \$1.12 |
| 2192. Ruling Pen, German Silver Blades, White Handle, 5 inches..... | .80 |



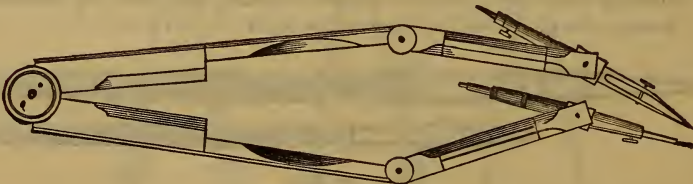
No. 2196.

- | | |
|--|--------|
| 2196. Dotting Wheel, White Handle..... | \$1.00 |
|--|--------|



No. 2198.

- | | |
|--|--------|
| 2198. Railroad Pen, 5½ inches, White Handle..... | \$2.75 |
|--|--------|



No. 2206.

- | | |
|--|--------|
| 2206. Pocket Folding Compasses, with Reversible Pen, Pencil and Needle Points..... | \$5.50 |
|--|--------|



No. 2210.

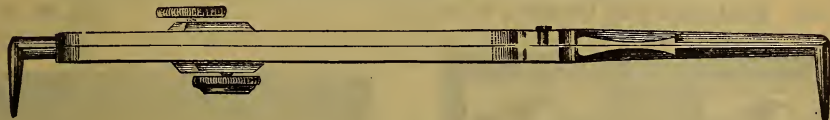
- | | |
|--|--------|
| 2210. Pocket Dividers, with detachable Sheath..... | \$2.20 |
|--|--------|

PROPORTIONAL DIVIDERS.



No. 2220.

2220. Proportional Dividers, $6\frac{1}{2}$ inches, graduated for lines and circles . . each, \$7.00
 The following Proportional Dividers are of French make.



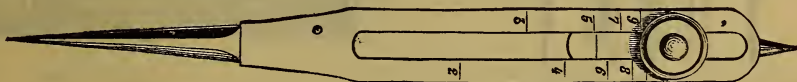
No. 2226.

2226. Proportional Dividers, 7 inches, graduated for lines and circles, with Rectangular Bent Points, same as 3020 each, \$7.00



No. 2230.

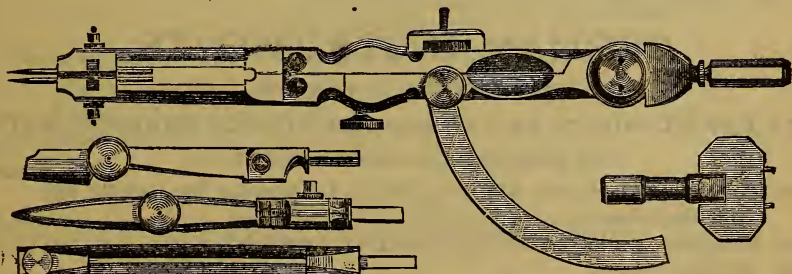
2230. Proportional Dividers, 7 inches, graduated for lines and circles, with rack adjusting movement, in Case, same as 3028 each, \$6.00



No. 2238.

2238. Proportional Dividers, $6\frac{1}{2}$ inches, graduated for lines and circles, in Case, same as 3036 each, \$2.50

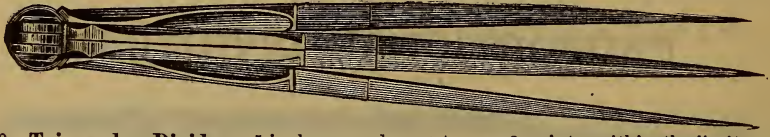
LITHOGRAPHERS' COMPASSES.



Nos. 2246-2250.

Each.

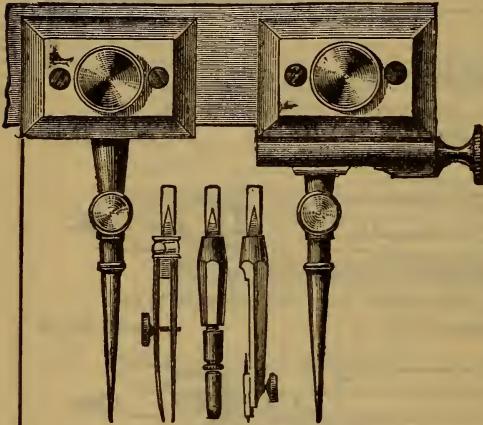
2246. Lithographers' Compasses, heavy and substantial make, with Metal Arc, fixed Needle Point, Pen, Pencil, Lengthening Bar and powerful Key, in MOROCCO CASE \$13.00
 2250. Lithographers' Compasses (same as above). Without Morocco Case . . . 12.00



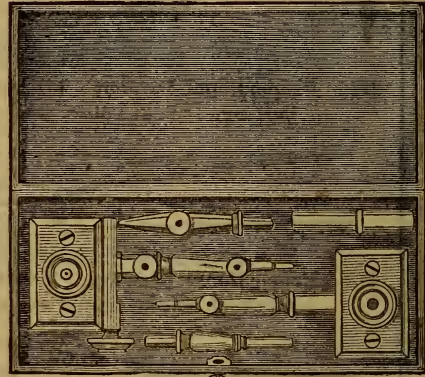
2260. **Triangular Dividers**, 5 inches, can be set to any 3 points, within the limit of its size..... each, \$3.50



2262. **Whole and Half Dividers**, 6 1/2 inches..... each, \$2.80



Nos. 2280, 2281.



2284.

2280. **Beam Compasses**, to fasten to a Straight Edge or Bar, with Pen, Pencil, Needle and Round Points, in case..... \$7.50
2281. **Beam Compasses**, to fasten to a Straight Edge or Bar, with Pen, Pencil, Needle and Round Points, without case..... 6.50
2284. **Beam Compasses**, (French Make, same as 3050). with Pen, Pencil and Needle Points, in case..... 5.00

GERMAN INSTRUMENTS, SECOND GRADE.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.

(First quality German Instruments, see Nos. 2000, etc.)

- | | Each. |
|--|--------|
| 2400. Compasses, 5 1/2 inches, with Pen, Pencil, Lengthening Bar, Needle and Divider Points..... | \$3.00 |
| 2406. Compasses, 5 1/2 inches, with Pen, Pencil and fixed Needle Point..... | 2.50 |
| 2422. Dividers, 5 inches..... | .75 |
| 2430. Bow Compasses, 3 1/2 inches, with Handle, Pen, Pencil, Needle and Divider Points..... | 2.50 |
| 2460. Ruling Pen, with Hinge, 5 1/2 inches..... | .75 |
| 2464. Ruling Pen, " " 4 "..... | .65 |
| 2470. Ruling Pen, without " 5 "..... | .40 |

REPAIRING DRAWING INSTRUMENTS.

The following are the approximate prices for repairs, which are of frequent occurrence. For complicated repairs, special estimates will be furnished, or the charges made according to the amount of labor.

Sharpening worn off Ruling Pens.....	Each. .20
Sharpening and Cleaning, Ruling Pens.....	.35

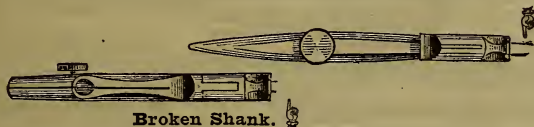


Grinding, Tempering, Sharpening and Cleaning broken off Pens.....	.50
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(A pen broken off by a fall, often would be too blunt if only sharpened, in which case it is necessary to repair it as mentioned above.)

New Ebony Handle, for Ruling Pen.....	Each. .22
New White Bone Handle, for Ruling Pen.....	.30
Inserting the original broken Handle in Ruling Pens.....	.15
New Screws for Ruling Pens, Compasses, etc., made to order.....	.25
New Thread and Nut for Steel Spring Bow Instruments.....	.35

VARIOUS REPAIRS.



The above break is of frequent occurrence, and often renders a complete compass and attachments useless, if the broken part remains in the socket.

Repaired equal to new.....	Each. 75 to \$1.00
Polishing 6 inch Compasses, and attachments.....	\$1.00 to 1.50
Polishing 3½ inch Compasses and attachments.....	.85 to 1.25



Proportional Dividers, with broken Points carefully repaired.....	1.00 to 3.00
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Parts of Sets of Instruments furnished at reasonable prices.

Needle Points with shoulder Small.....	each, .10 to .15
Needle Points, special sizes made to order.....	“ .15 to .25

ADJUSTABLE INSTRUMENT KEY.



No. 2480.

2480. Adjustable Instrument Key and Screw Driver.....	each, .50
---	-----------

POLISHED WALNUT CASES

OF EXTRA FINE

GERMAN DRAWING INSTRUMENTS,

Best Quality German Silver. Lined with fine Velvet.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2500.

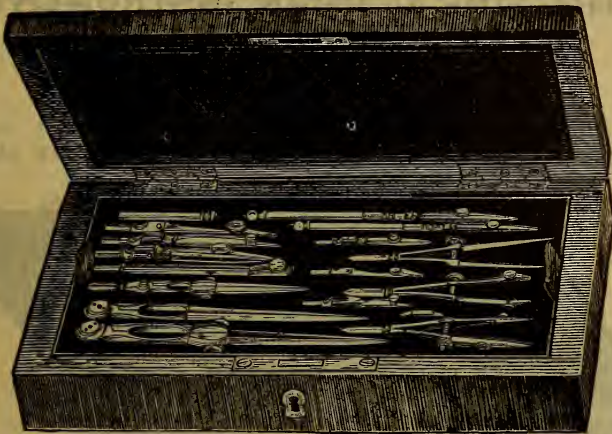
2500. Polished Walnut Case, with Tray, Lock and Key.

Contents : $6\frac{1}{2}$ inch Proportional Dividers, $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Hair Spring Dividers, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil, and Needle Points, $3\frac{1}{2}$ inch Dividers, with handle, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, Railroad Pen, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Key, Lead Case, 1 dozen Tacks, 6 inch Ivory Scale, Rubber Triangle, Metal Protractor, and Wooden Curve.....each, \$30.00

2504. Polished Walnut Case, with Tray, Lock and Key.

Contents: $6\frac{1}{2}$ inch Proportional Dividers, $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 5 inch Dividers, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Key, Lead Case, 6 inch Ivory Scale, Rubber Triangle, Metal Protractor, Wooden Curve, and 1 dozen Tacks.....each, 26.00

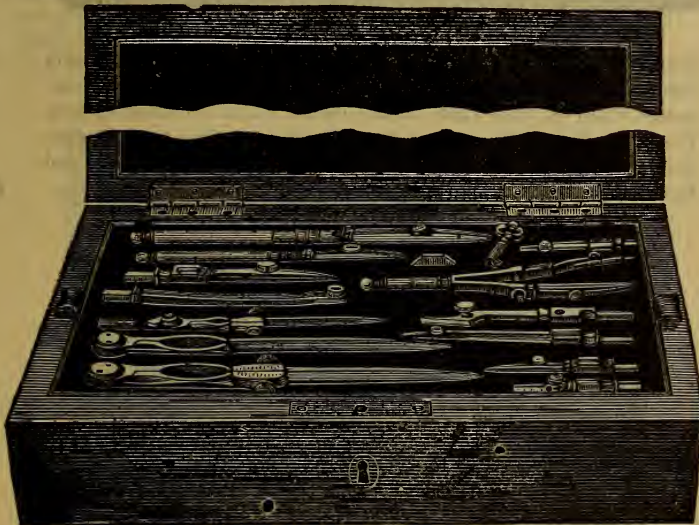
EXTRA FINE
 GERMAN DRAWING INSTRUMENTS (continued).



No. 2508.

2508. Polished Walnut Case, with Tray, Lock and Key.

Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case, Key, 6 inch Ivory Scale, Rubber Triangle, Metal Protractor, Wooden Curve, and 1 dozen Tacks.....each, \$19.50



No. 2512.

2512. Polished Walnut Case, with Tray, Lock and Key.

Contents : $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 3 inch Steel Spring Bow Pen, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case, Key, 6 inch Ivory Scale, Rubber Triangle, Metal Protractor, Wooden Curve, and 1 dozen Tacks.....each, \$16.50

EXTRA FINE GERMAN INSTRUMENTS,

In Pocket Morocco Cases

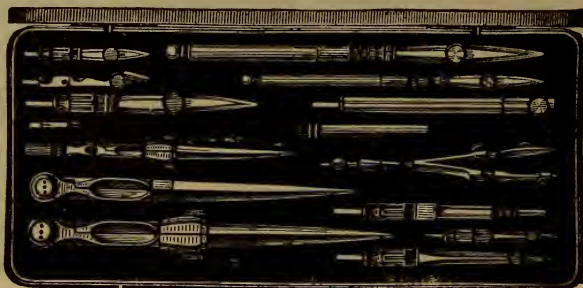
Best Quality German Silver.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2524.

2524. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Hair Spring Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case and Key.....
- Each. \$18.00



No. 2528.

2528. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 3 inch Steel Spring Bow Pen, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case and Key.....
- \$14.00

EXTRA FINE GERMAN INSTRUMENTS

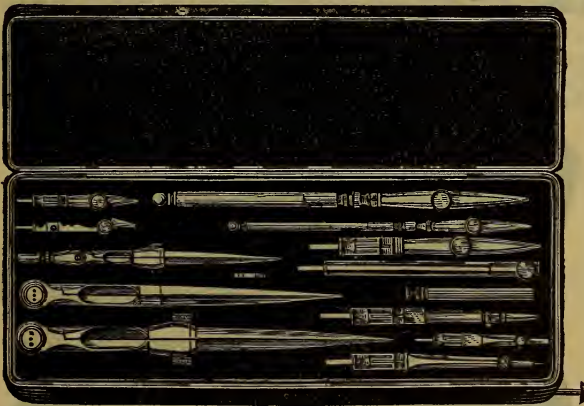
IN CASES (continued).

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2532

2532. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, 3 inch Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case and Key.....each, \$13.25



No. 2536.

2536. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen, Lead Case and Key.....each, 11.50

EXTRA FINE GERMAN INSTRUMENTS

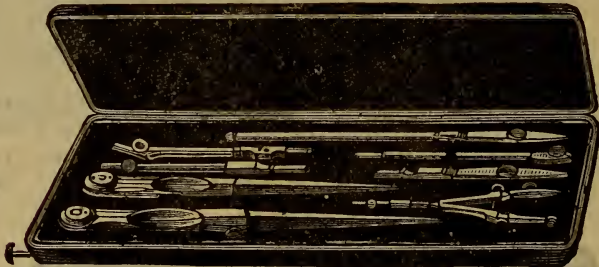
IN CASES (continued).

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.



No. 2540.

2540. Contents: $4\frac{1}{2}$ inch Compasses with handle, Pen, Pencil and Divider Points, Lengthening Bar and fixed Needle Point, 5 inch Dividers, $3\frac{1}{2}$ inch German Silver Spring Bow Pen, two Ruling Pens, Lead Case and Key.....each, \$10.00



No. 2542.

- *2542. Contents: $5\frac{1}{2}$ inch Compasses, with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, 3 inch Steel Spring Bow Pen, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, Lead Case and Key.....each, \$8.75



No. 2544.

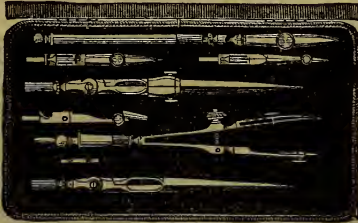
2544. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, Lead Case and Key.....each, \$7.50

EXTRA FINE GERMAN INSTRUMENTS,

Continued.

ALL PENCIL POINTS ARE ARRANGED TO HOLD FABER'S LEADS.

VERY SMALL POCKET CASES.



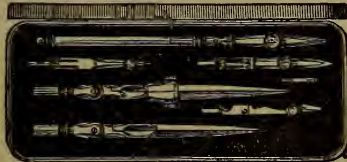
No. 2548.

2548. Contents: $3\frac{1}{2}$ inch Bow Compasses with Handle, Pen, Pencil and Needle Point, $3\frac{1}{2}$ inch Dividers with Handle, 3 inch Steel Spring Bow Pen, 4 inch Ruling Pen, Lead Case and Key.....each, \$7.50



No. 2552.

2552. Contents: $3\frac{1}{2}$ inch Spring Bow Compasses with long detachable white Handle, 2 Pen Points, Pencil and Needle Points, 4 inch Ruling Pen, Lead Case and Key.....each, 6.00



No. 2556.

2556. Contents: $3\frac{1}{2}$ inch Bow Compasses with Handle, Pen, Pencil and Needle Points, $3\frac{1}{2}$ inch Dividers with Handle, 4 inch Ruling Pen, Lead Case and Key.....each, 5.00



No. 2560.

2560. Contents: $3\frac{1}{2}$ inch Bow Compasses with Handle, Pen, Pencil and Needle Points, 4 inch Ruling Pen. Lead Case and Key.....each, 4.45

Cases of Extra Fine German Instruments, see Nos. 2500-2560.

CASES OF GERMAN INSTRUMENTS.

German Silver, Steel Points, Metal Joints.

Morocco Cases lined with Black Velvet.

THESE CASES ARE OF GOOD QUALITY, AND VERY MODERATE IN PRICE.



No. 2600.

2600. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Pen, Pencil and Needle Points, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, $5\frac{1}{2}$ inch Ruling Pen with hinge and pin, 4 inch Ruling Pen and Key.....each, \$12.00



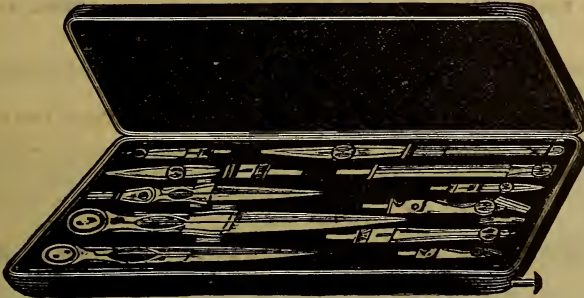
No. 2604, with 1 Ruling Pen.

2604. Contents: $5\frac{1}{2}$ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, 3 inch Steel Spring Bow Pen, 3 inch Spring Bow Pencil, 3 inch Spring Bow Dividers, Key, and $5\frac{1}{2}$ inch Ruling Pen with hinge and pin.....each, \$9.00

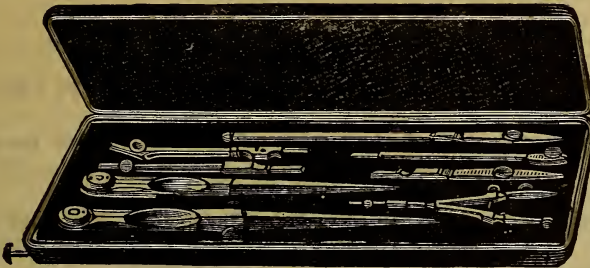
CASES OF GERMAN INSTRUMENTS,

Continued.

Cases of Extra Fine German Instruments, see Nos. 2500-2546.



2608. Contents: 5½ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, 3½ inch Bow Compasses with Handle, Pen, Pencil and Needle Points, Key, and 5½ inch Ruling Pen with hinge and pin.....each, \$8.50



2612. Contents: 5½ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, 3 inch Steel Spring Bow Pen, Key, and 5½ inch Ruling Pen with hinge and pin.....each, \$7.00



No. 2616.

2616. Contents: 5½ inch Compasses with Pen, Pencil, Needle Points and Lengthening Bar, 5 inch Dividers, Key, and 5½ inch Ruling Pen with hinge and pin.....each, \$5.55

Continued on next page.

CASES OF GERMAN INSTRUMENTS,

Continued.

Cases of Extra Fine German Instruments, see Nos. 2500-2560.

- 2628. Contents: 5½ inch Compasses with fixed Needle Point, Pen and Pencil Points, 5 inch Dividers, Key, and 5 inch Ruling Pen... each, \$4.25
- 2636. Contents: 5½ inch Compasses with one fixed Divider Point, Pen and Pencil Points, Key, and 5 inch Ruling Pen.....each, 3.00

CHAMOIS SKINS FOR CLEANING INSTRUMENTS (Same as No. 17,910).

Medium, 30c. Small, 20c. each.

Repairing Instruments, see page 63.

EMPTY CASES

FOR DRAWING INSTRUMENTS.

Made of well-seasoned wood. Each case has a Tray to lift out, with space underneath the same to hold Triangles, Curves, Pencils, etc.

2800. Rosewood veneered and polished. Plated Metal Work, Tray, Lock and Key.

Inside Measure.	Tray fitted with silk Velvet, to hold the Instruments.	Inside Measure.	Empty Case, Tray not fitted.
10×14 inches.....	each, \$18.00	10×14 inches.....	each, \$12.00
7×13 ".....	" 10.75	7×13 ".....	" 6.50
5×12½ ".....	" 8.50	5×12½ ".....	" 5.00
7×11 ".....	" 8.50	7×11 ".....	" 5.00
6×10 ".....	" 7.25	6×10 ".....	" 4.25
5×9 ".....	" 6.00	5×9 ".....	" 3.75
3½×9 ".....	" 5.00	3½×9 ".....	" 3.00

2830. Black Walnut oiled, Brass Metal Work, Tray, Lock and Key.

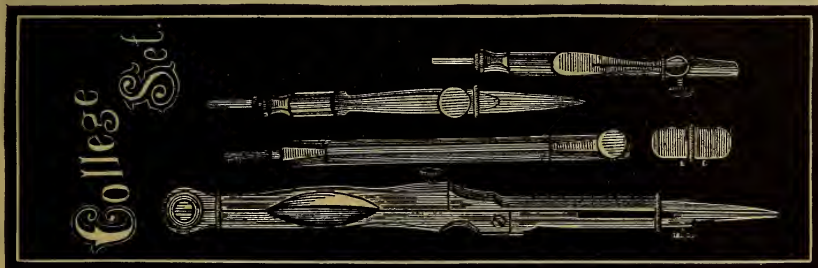
Inside Measure.	Tray fitted with Cotton Velvet, to hold the Instruments.	Inside Measure.	Empty Case, Tray not fitted.
10×14 inches.....	each, \$12.50	10×14 inches.....	each, \$8.00
7×13 ".....	" 7.25	7×13 ".....	" 4.00
5×12½ ".....	" 5.75	5×12½ ".....	" 3.00
7×11 ".....	" 5.75	7×11 ".....	" 3.00
6×10 ".....	" 5.00	6×10 ".....	" 2.50
5×9 ".....	" 4.00	5×9 ".....	" 2.25
3½×9 ".....	" 3.25	3½×9 ".....	" 1.75

Lined with Silk Velvet, 50c. to \$2.00 extra. Polished Cases, 50c. to \$1.50 extra.

Other Cases made to order at short notice.

FRENCH INSTRUMENTS,

Brass and German Silver, on Cards.



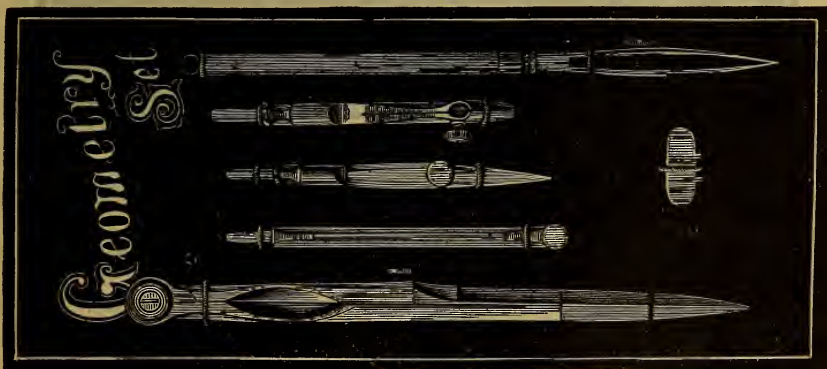
No. 2902.

2902. "COLLEGE SET," Brass.

5½ inch Compasses with fixed Needle Point, Pen, Pencil Point,
Lengthening Bar and Key.....each, \$1.00

2912. "STUDENT'S SET," German Silver.

5½ inch Compasses with fixed Needle Point, Pen, Pencil Point,
Lengthening Bar and Key.....each, 1.75



No. 2922.

2922. "GEOMETRY SET," Brass.

5½ inch Compasses with one fixed Divider Point, Pen, Pencil Point,
Lengthening Bar, Ruling Pen and Key.....each, \$1.00

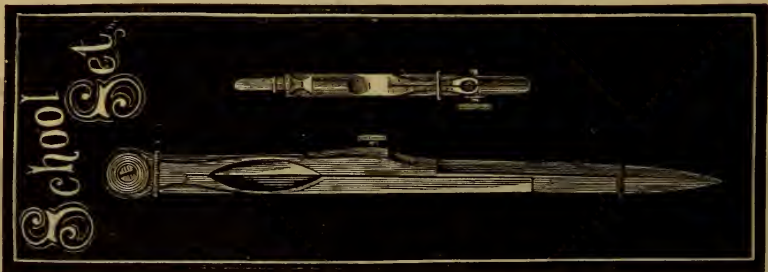
FRENCH INSTRUMENTS,

Brass, on Cards (continued).



No. 2930. 2932. 2934.

- 2930. "SCHOLAR'S SET," Brass.
6¼ inch Compasses with one fixed Divider Point, Pen, Pencil Point, Lengthening Bar and Key.....each, .85
- 2932. "SCHOLAR'S SET," Brass.
5½ inch Compasses with one fixed Divider Point, Pen, Pencil Point, Lengthening Bar and Key..... " .75
- 2934. "SCHOLAR'S SET," Brass.
4¾ inch Compasses with one fixed Divider Point, Pen, Pencil Point, Lengthening Bar and Key..... " .65



No. 2950. 2952. 2954.

- 2950. "SCHOOL SET," Brass.
6¼ inch Compasses with one fixed Divider Point, Pencil Point and Key, each, .65
- 2952. "SCHOOL SET," Brass.
5½ inch Compasses with one fixed Divider Point, Pencil Point and Key, " .55
- 2954. "SCHOOL SET," Brass.
4¾ inch Compasses with one fixed Divider Point, Pencil Point and Key, " .45



No. 2960. 2962. 2964.

- 2960. Dividers, BRASS, 6¼ inches.....each, .40
- 2962 Dividers, BRASS, 5½ " " .35
- 2964. Dividers, BRASS, 4¾ " " .30

FRENCH INSTRUMENTS,

Continued.



No. 2980.

2980. Bow Compasses, **BRASS**, 3 inches, with Handle, fixed Needle Point, Pen and Pencil Points.....each, .75
2984. Bow Compasses, **GERMAN SILVER**, 3 inches, with Handle, fixed Needle Point, Pen and Pencil Points..... “ \$1.00



No. 2990.

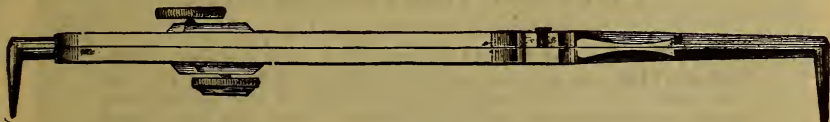
2990. Spring Bow Pen, **BRASS**, fixed Needle Point.....each, .80
2992. Spring Bow Pencil, **BRASS**, “ “ “ “ .80



No. 3000.

(These Pens are of a cheap grade, and intended for ordinary use.)

3000. Ruling Pen, with White Handle.....each, .30
3002. Ruling Pen, “ Black “ “ .20



No. 3020.

3020. Proportional Dividers, **GERMAN SILVER**, 7 inches, with rectangular bent points ; graduated for lines and circles, in Case..... each, \$7.00



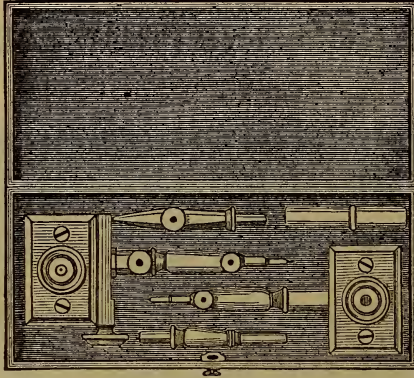
No. 3028.

3028. Proportional Dividers, **GERMAN SILVER**, 7 inches, with rack movement ; graduated for lines and circles, in Case.....each, \$6.00

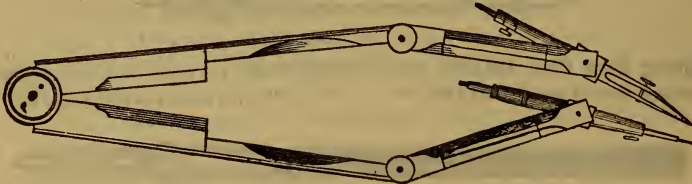


No. 3036. 3038.

3036. Proportional Dividers, **GERMAN SILVER**, 6¼ inches, in Case, (List Price, \$2.75) each, \$2.50
3038. Proportional Dividers, **BRASS**, 6¼ inches, in Case, (List Price, \$1.90) each, \$1.75



3050. **Beam Compasses, GERMAN SILVER**, to fasten to a Straight Edge or Bar, with Pen, Pencil and Needle Points, in Case.....each, \$5.00



No. 3054.

3054. **Pocket Folding Compasses, GERMAN SILVER**, with reversible Pen, Pencil and Needle Points, in Case.....each, \$5.50

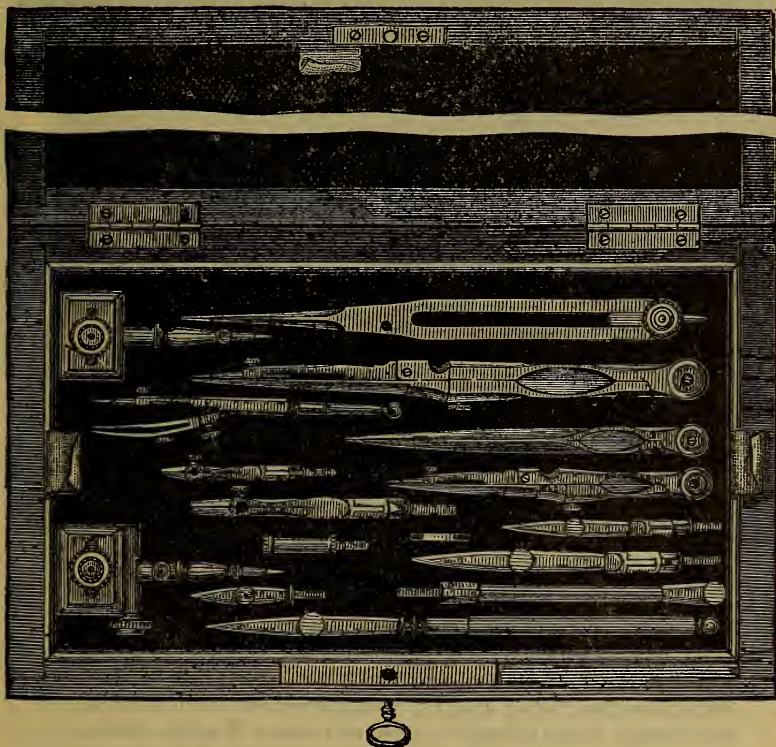
FRENCH INSTRUMENTS,

In Rosewood Polished Cases.

3200. **Rosewood Polished and Inlaid Case, with Tray, Lock and Key. GERMAN SILVER**, containing a complete outfit of **65 Pieces**: $6\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen, Pencil and Lengthening Bar, $4\frac{3}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $5\frac{1}{2}$ inch Dividers, Steel Spring Bow Pen with fixed Needle Point, Spring Bow Pencil with fixed Needle Point, Spring Bow Dividers, 3 Ruling Pens Ivory handles, $6\frac{1}{4}$ inch Proportional Dividers, Beam Compasses with Pen, Pencil and Needle Points, Key, Ivory Scale, Boxwood Scale, Horn Protractor, Metal Protractor, Case of Leads, small Screw Driver, 45° Rubber Triangle, 30° & 60° Rubber Triangle, Wooden Triangle, Horn Centre, Crayon Holder, Rubber Curve, 2 Wooden Curves, 6 German Silver Tacks, Pocket Rule, Cake Red India Ink, Cake Blue India Ink, Ink Dish, Pencil Rubber, Ink Rubber, Oil Stone, small, medium and large Brush, hard, medium and soft Pencil, 2 small Pencils for Instruments, 6 Lettering Pens, 2 Penholders, and Cake of fine Black India Ink.....each, \$32.00
3204. **Rosewood Polished and Inlaid Case, with Tray, Lock and Key. GERMAN SILVER**, containing outfit of **50 Pieces**: $6\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen, Pencil and Lengthening Bar, $4\frac{3}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $4\frac{3}{4}$ inch Dividers, Spring Bow Pen, Proportional Dividers, Three Ruling Pens, Key, Ivory Scale, Boxwood Scale, Horn Protractor, Metal Protractor, Case of Leads, small Screw Driver, 45° Rubber Triangle, 30° & 60° Rubber Triangle, Wooden Triangle, Horn Centre, Crayon Holder, 2 Wooden Curves, 6 German Silver Tacks, Oil Stone, small, medium and large Brush, hard, medium and soft Pencil, small Pencil for Instruments, 6 Lettering Pens, 2 Penholders, Pencil Rubber, Ink Dish, and Cake of fine Black India Ink.....each, 20.00

FRENCH INSTRUMENTS,

IN CASES (continued.)



No. 3208.

3208. Rosewood Polished Case, with Tray, Lock and Key. **GERMAN SILVER**, outfit of 40 Pieces: $6\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen, Pencil Points and Lengthening Bar, $4\frac{3}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $5\frac{1}{2}$ inch Dividers, Spring Bow Pen, Ruling Pen White Handle, $6\frac{1}{4}$ inch Proportional Dividers, Beam Compasses with Pen, Pencil and Needle Points, Key, Wooden Rule, Scale, Horn Protractor, Metal Protractor, Case of Leads, 2 Wooden Curves, Rubber Triangle, Wooden Triangle, small Screw Driver, Crayon Holder, 6 German Silver Tacks, Pencil Pointer, Pencil Rubber, medium Bru h, hard, medium and soft Pencil, 2 Pencils for instruments, 3 Lettering Pens, Penholder, and Cake of Black India Ink.....each, \$16.00

FRENCH INSTRUMENTS

IN CASES *(continued)*.

No. 3216. 3220.

3216. Rosewood Polished Case, with Tray, Lock and Key. **GERMAN SILVER**, outfit of **35 Pieces**: $6\frac{1}{4}$ inch Compasses, with fixed Needle Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, Spring Bow Pen, Ruling Pen, $6\frac{1}{4}$ inch Proportional Dividers, Key, Rule, Scale, Horn Protractor, Case of Leads, 2 Wooden Curves, Wooden Triangle, Crayon Holder, 6 German Silver Tacks, Pencil Pointer, Pencil Rubber, Brush, hard, medium and soft Pencil, small Pencil for Instruments, 3 Lettering Pens, Penholder, and Cake of Black India Ink..... each, \$9.75
3220. Rosewood Polished Case, with Tray, Lock and Key. **BRASS**, outfit of **35 Pieces**: $6\frac{1}{4}$ inch Compasses, with fixed Needle Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Compasses, with fixed Needle Point, Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, Spring Bow Pen, Ruling Pen, $6\frac{1}{4}$ inch Proportional Dividers, Key, Rule, Scale, Horn Protractor, Case of Leads, 2 Wooden Curves, Wooden Triangle, Crayon Holder, 6 German Silver Tacks, Pencil Pointer, Pencil Rubber, Brush, hard, medium and soft Pencil, small Pencil for Instruments, 3 Lettering Pens, Penholder, and Cake of Black India Ink.....each, 7.00

FRENCH INSTRUMENTS,

IN CASES (*continued*).

No. 3224. 3228.

3224. Rosewood Polished Case, with Tray, Lock and Key. **GERMAN SILVER**, outfit of 30 Pieces: $6\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, Spring Bow Pen, Ruling Pen, Key, Rule, Boxwood Scale, Horn Protractor, Wooden Curve, Wooden Triangle, Crayon Holder, 6 German Silver Tacks, Pencil Pointer, Pencil Rubber, Brush, 3 Lettering Pens, Penholder, small Pencil for Instruments, and Cake of Black India Inkeach, \$7.00
3228. Rosewood Polished Case, with Tray, Lock and Key. **BRASS**, outfit of 30 Pieces: $6\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, Spring Bow Pen, Ruling Pen, Key, Rule, Boxwood Scale, Horn Protractor, Wooden Curve, Wooden Triangle, Crayon Holder, 6 German Silver Tacks, Pencil Pointer, Pencil Rubber, Brush, 3 Lettering Pens, Penholder, small Pencil for Instruments, and Cake of Black India Ink...each, 4.25



No. 3240.

3240. Pocket Case, covered with Morocco Cloth. BRASS, outfit of 9 Pieces: $5\frac{1}{2}$ inch Compasses with fixed Needle Point, Pen and Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Dividers, Spring Bow Pen, Key, Ruling Pen, Rule and Protractor..... each, \$3.70
3252. Rosewood Polished Case, BRASS, outfit of 9 Pieces: $4\frac{1}{4}$ inch Compasses with fixed Needle Point, Pen and Pencil Points and Lengthening Bar, 4 inch Dividers, Ruling Pen, Key, Rule and Protractor... “ 1.75



No. 3260.

3260. Rosewood Polished Case, with Tray, Lock and Key. BRASS, outfit of 26 Pieces: $6\frac{1}{4}$ inch Compasses with one fixed Divider Point, Pen and Pencil Points and Lengthening Bar. $4\frac{1}{4}$ inch Compasses with Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, Proportional Dividers, 3 inch Bow Compasses with Handle and fixed Needle Point, Pen and Pencil Points, Ruling Pen, Key, Brass Protractor, Horn Protractor, Rule, Crayon Holder, 6 Tacks, Pencil Rubber, small Pencil for Instruments, and Cake of Black India Ink.....each, \$5 75

FRENCH INSTRUMENTS

IN CASES (*continued*).



No. 3264.

3264. Rosewood Polished Case, with Tray, Lock and Key. **BRASS**, outfit of 25 Pieces : $6\frac{1}{4}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Compasses with Pen and Pencil Points, $4\frac{1}{4}$ inch Dividers, 3 inch Bow Compasses with Handle and fixed Needle Point, Pen and Pencil Points, Ruling Pen, Key, Brass Protractor, Horn Protractor, Rule, Crayon Holder, 6 Tacks, Pencil Rubber, small Pencil for Instruments, and Cake of Black India Ink..... each, \$3.40



No. 3272.

3272 **Rosewood Polished Case, with Tray, Lock and Key. BRASS, outfit of 20 Pieces :** $5\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, $4\frac{1}{4}$ inch Dividers, 3 inch Bow Compasses with Handle and fixed Needle Point, Pen and Pencil Points, Ruling Pen, Key, Rule Crayon Holder, Protractor, small Pencil for Instruments, 6 Tacks, Pencil Rubber, and Cake of Black India Ink, each, \$2.60



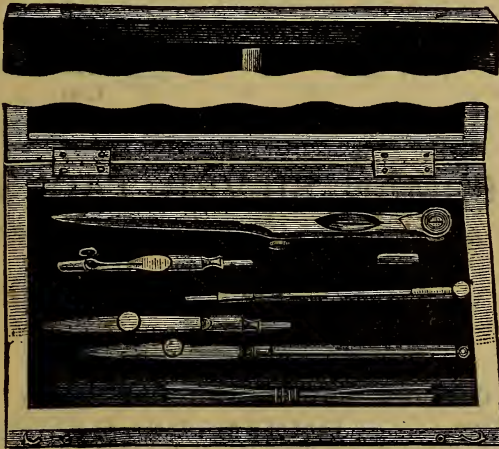
No. 3290.

3290. **Mahogany Polished Case. BRASS, 12 Pieces :** $4\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, $3\frac{1}{2}$ inch Dividers, $3\frac{1}{2}$ inch Bow Compasses with Handle and fixed Needle Point, Pen and Pencil Points, Ruling Pen, Key, Rule, Crayon Holder and Protractor each, \$1.50



No. 3300.

3300. **Mahogany Polished Case. BRASS, 10 Pieces:** $4\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, $3\frac{1}{2}$ inch Dividers, Ruling Pen, Key, Rule, Crayon Holder and Protractor.....each, \$1.00



No. 3304.

3304. **Mahogany Polished Case. BRASS, 9 Pieces:** $4\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, Ruling Pen, Key, Rule, Crayon Holder and Protractor.....each, .80
3308. **Mahogany Polished Case. BRASS, 8 Pieces:** $4\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen, Pencil Points and Lengthening Bar, Key, Rule, Crayon Holder and Protractor “ .70
3312. **Mahogany Polished Case. BRASS, 6 Pieces:** $4\frac{1}{2}$ inch Compasses with one fixed Divider Point, Pen and Pencil Points, Key, Rule, and Crayon Holder..... “ .60
3316. **Mahogany Polished Case. BRASS, 5 Pieces:** $4\frac{1}{2}$ inch Compasses with one detachable Divider Point, Pen and Pencil Points, and Key. “ .50

CHAMOIS SKINS FOR CLEANING INSTRUMENTS (same as No. 17,910).

Medium, 30c. Small, 20c. each.

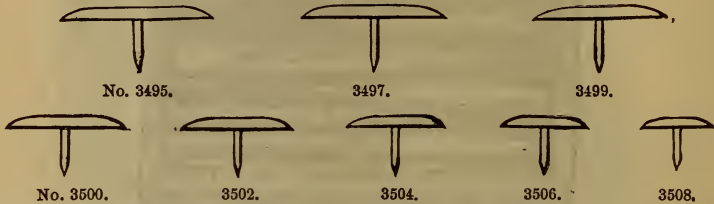
Instruments Repaired, see Description Page 63.

FASTENING PINS OR THUMB TACKS.

German Silver, Best Quality.

Points Screwed in and Riveted.

HEADS ROUNDED SO AS TO ENABLE THE T SQUARE TO SLIDE OVER WITHOUT HINDRANCE.



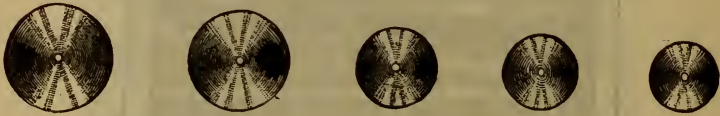
Above cuts represent the full size section of each Tack.

On Cork covered with Black Velvet Paper.

3495.	$\frac{1\frac{3}{16}}$	inch diameter.....	Card of 3 doz. Tacks, \$3.75.....	dozen, \$1.25
3497.	$\frac{1\frac{1}{8}}$	" " " " " " " " " " " "	3.30.....	" 1.10
3499.	$\frac{1\frac{1}{8}}$	" " " " " " " " " " " "	3.00.....	" 1.00
3500.	$\frac{1\frac{1}{8}}$	" " " " " " " " " " " "	2.70.....	" .90
3502.	$\frac{9}{16}$	" " " " " " " " " " " "	2.40.....	" .80
3504.	$\frac{9}{16}$	" " " " " " " " " " " "	2.10.....	" .70
3506.	$\frac{7}{16}$	" " " " " " " " " " " "	1.80.....	" .60
3508.	$\frac{9}{16}$	" " " " " " " " " " " "	1.65.....	" .55

GERMAN SILVER TACKS.

SECOND QUALITY, HEADS ROUNDED, POINTS RIVETED.



On Cork covered with Blue Paper.

3530.	$\frac{1\frac{1}{8}}$	inch diameter.....	Card of 3 doz. Tacks, \$1.65.....	dozen, .55
3532.	$\frac{9}{16}$	" " " " " " " " " " " "	1.50.....	" .50
3534.	$\frac{9}{16}$	" " " " " " " " " " " "	1.35.....	" .45
3536.	$\frac{7}{16}$	" " " " " " " " " " " "	1.20.....	" .40
3538.	$\frac{9}{16}$	" " " " " " " " " " " "	1.05.....	" .35

BRASS TACKS,

Points Riveted.

On Cork covered with Blue Paper.

3560.	$\frac{1\frac{1}{8}}$	inch diameter.....	Card of 3 doz. Tacks, \$1.20.....	dozen, .40
3564.	$\frac{9}{16}$	" " " " " " " " " " " "	1.05.....	" .35
3566.	$\frac{7}{16}$	" " " " " " " " " " " "	.90.....	" .30
3568.	$\frac{9}{16}$	" " " " " " " " " " " "	.75.....	" .25

BRASS TACKS, for Schools, etc.



3575.	$\frac{7}{16}$ inch diameter.....	Gross, \$2.20.....	dozen,	.20
3577.	$\frac{6}{16}$ " "	" 1.75.....	"	.16
3579.	$\frac{5}{16}$ " "	" 1.30.....	"	.14

"BAYONET" TACKS.



3583



3585



3587

MADE OF ONE PIECE OF STEEL, A PORTION OF THE HEAD FORMING THE POINT.

On Cards covered with White Paper.

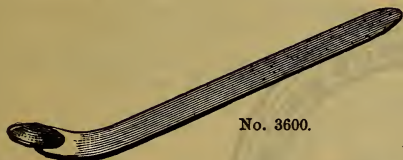
3583.	"BAYONET" TACKS, $\frac{3}{8}$ inch diameter...Gross, \$2.50.....	dozen,	.22
3585.	"BAYONET" TACKS, $\frac{1}{8}$ " " .. " 1.75.....	"	.17
3587.	"BAYONET" TACKS, $\frac{4}{16}$ " " .. " 1.50.....	"	.15

SPIRAL WIRE TACKS.



3590.	SPIRAL TACKS, $\frac{12}{16}$ inch diameter.....	dozen,	.35
3591.	" " $\frac{10}{16}$ " "	"	.30
3592.	" " $\frac{8}{16}$ " "	"	.25
3593.	" " $\frac{6}{16}$ " "	"	.20

TACK LIFTER.



No. 3600.

Made of metal, and plated. Is convenient for pushing in, as well as extracting Tacks from the drawing board, without injury to the points. The handle can be used as a paper cutter,

and is serviceable for pressing down the edges in stretching paper, and removing sheets which have been gummed to the board.....each, .25

HORN CENTRES.



No. 3610.



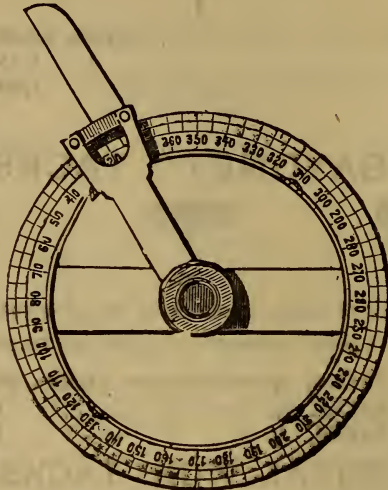
No. 3616.



3610.	Horn Centre, with German Silver Rim.....	each,	.50
3616.	Horn Centre.....	"	.15

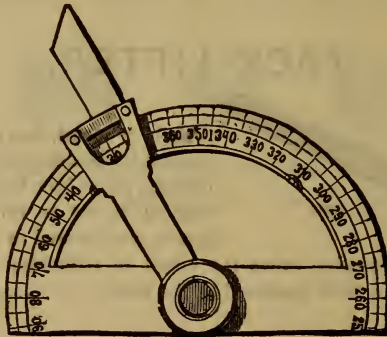
SWISS PROTRACTORS.

German Silver. With Arm and Vernier,



Nos. 3700, 3704, 3706.

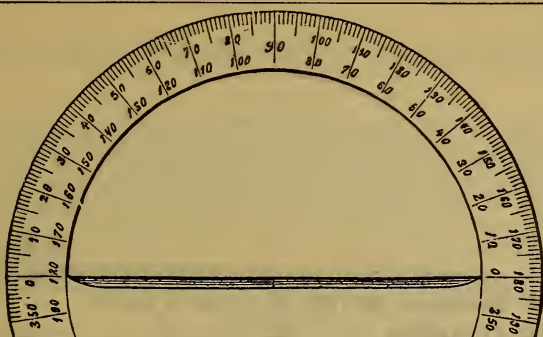
3700. **Swiss Full Circle Vernier Protractor**, with Horn Centre, 10 inches,
 $\frac{1}{4}$ degrees, reading to 1 minute.....each, \$20.00
3704. **Swiss Full Circle Vernier Protractor**, with Horn Centre, 8 inches,
 $\frac{1}{2}$ degrees, reading to 3 minutes..... “ 16.25
3706. **Swiss Full Circle Vernier Protractor**, with Horn Centre, $5\frac{1}{2}$ inches,
 $\frac{1}{2}$ degrees, reading to 3 minutes..... “ 14.00



Nos. 3720, 3724, 3726.

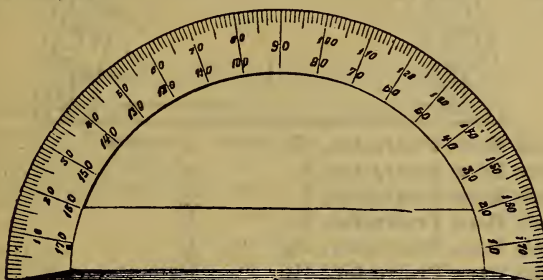
3720. **Swiss Half Circle Vernier Protractor**, with Horn Centre, 10 inches,
 $\frac{1}{4}$ degrees, reading to 1 minute.....each \$18.00
3724. **Swiss Half Circle Vernier Protractor**, with Horn Centre, 8 inches,
 $\frac{1}{2}$ degrees, reading to 3 minutes..... “ 14.50
3726. **Swiss Half Circle Vernier Protractor**, with Horn Centre, $5\frac{1}{2}$ inches,
 $\frac{1}{2}$ degrees, reading to 3 minutes..... “ 11.00

Morocco Cases for Vernier Protractors, from \$1.50 to \$5 00



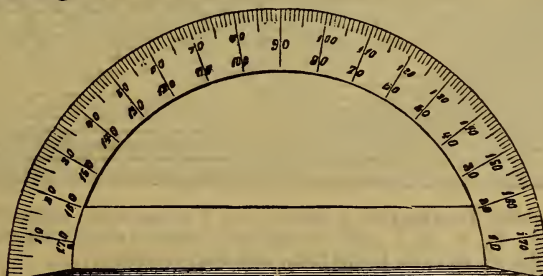
Nos. 3750-3756.

- 3750. Swiss Half Circle Protractor, GERMAN SILVER, Centre on inner edge, 6 inches, $\frac{1}{4}$ degrees each, \$4.50
- 3752. Swiss Half Circle Protractor, GERMAN SILVER, Centre on inner edge, 6 inches, $\frac{1}{2}$ degrees... .. " 3.75
- 3754. Swiss Half Circle Protractor, GERMAN SILVER, Centre on inner edge, 5 inches, $\frac{1}{2}$ degrees..... .. " 3.00
- 3756. Swiss Half Circle Protractor, GERMAN SILVER, Centre on inner edge, 4 inches, degrees " 2.50



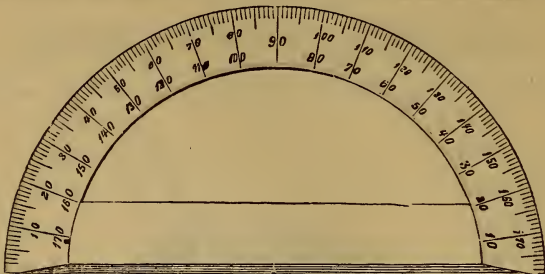
Nos. 3760-3766.

- 3760. Swiss Half Circle Protractor, GERMAN SILVER, Centre on outer edge, 6 inches, $\frac{1}{4}$ degrees each, \$4.00
- 3762. Swiss Half Circle Protractor, GERMAN SILVER, Centre on outer edge, 6 inches, $\frac{1}{2}$ degrees..... .. " 3.25
- 3764. Swiss Half Circle Protractor, GERMAN SILVER, Centre on outer edge, 5 inches, $\frac{1}{2}$ degrees..... .. " 2.60
- 3766. Swiss Half Circle Protractor, GERMAN SILVER, Centre on outer edge, 4 inches, degrees..... .. " 2.00



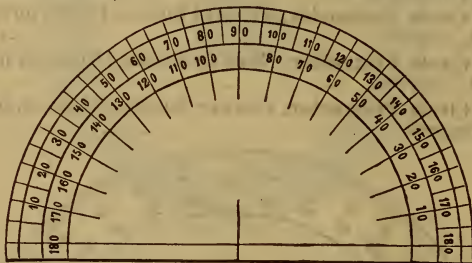
Nos 3780-3788.

- 3780. Half Circle Protractor, GERMAN SILVER, $8\frac{1}{2}$ inch, $\frac{1}{2}$ degrees... each, \$2.00
- 3782. Half Circle Protractor, " " $7\frac{1}{2}$ " $\frac{1}{2}$ " " 1.50
- 3784. Half Circle Protractor, " " $6\frac{3}{8}$ " $\frac{1}{2}$ " " 1.25
- 3786. Half Circle Protractor, " " $5\frac{1}{8}$ " $\frac{1}{2}$ " " 1.00
- 3788. Half Circle Protractor, " " $4\frac{1}{4}$ " $\frac{1}{2}$ " " .75



Nos. 3804-3808.

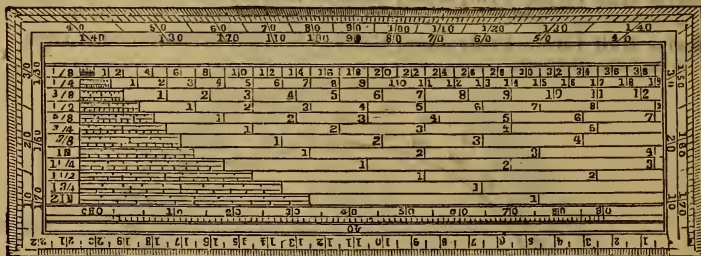
- 3804. Half Circle Protractor, BRASS, $6\frac{3}{8}$ inches, $\frac{1}{2}$ degrees each, .75
- 3806. Half Circle Protractor, " $5\frac{1}{8}$ " $\frac{1}{2}$ " " .60
- 3808. Half Circle Protractor, " $4\frac{1}{4}$ " $\frac{1}{2}$ " " .30
- 3812. Half Circle Protractor, " $3\frac{3}{4}$ " degrees (common) " .15



Nos. 3830-3840.

- 3830. Half Circle Horn Protractor, $8\frac{3}{4}$ inches, $\frac{1}{2}$ degrees each, \$1.00
- 3832. Half Circle Horn Protractor, 8 " $\frac{1}{2}$ " " .75
- 3834. Half Circle Horn Protractor, 7 " $\frac{1}{2}$ " " .60
- 3836. Half Circle Horn Protractor, $6\frac{1}{4}$ " $\frac{1}{2}$ " " .40
- 3838. Half Circle Horn Protractor, $5\frac{1}{4}$ " $\frac{1}{2}$ " " .30
- 3840. Half Circle Horn Protractor, $4\frac{1}{4}$ " degrees " .25
- 3850. Railroad Curve Horn Protractor, 8 inch, $\frac{1}{2}$ degrees, with circular curves from $\frac{1}{2}$ to 8 degrees, 400 feet to the inch " 1.60

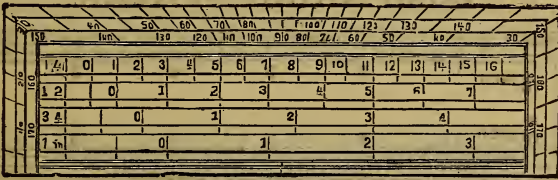
OBLONG IVORY PROTRACTORS.



- 3904. Ivory Oblong Protractor, 8 inches long, 2 inches wide, scales of $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch to the foot, scale of chords, 20, 25, 30, 35, 40, 45, 50, 60 parts to the inch, and diagonal scale each, \$5.00
- 3908. Ivory Oblong Protractor, 6 inches long, 2 inches wide, scales of $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$ inches to the foot, scale of chords, 30, 35, 40, 45, 50, 60 parts to the inch, and diagonal scale " 3.25
- 3912. Ivory Oblong Protractor, 6 inches long, $1\frac{3}{4}$ inches wide, scales of $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, and 1 inch to the foot, scale of chords, 30, 35, 40, 45, 50, and 60 parts to the inch, and diagonal scale " 2.25

IVORY AND BOXWOOD PROTRACTORS,

Continued.



Nos. 3916-3930,

- 3916. Ivory Oblong Protractor, 6 inches long, 1 3/4 inches wide, scales of 1/4, 1/8, 3/4, 1 inch to the foot, scale of chords, 25, 30, 35, 40, 45 parts to the inch, and diagonal scale.....each, \$1.50
- 3920. Boxwood Oblong Protractor, 6 inches long, 1 3/4 inches wide, scales of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 inch to the foot, scale of chords, diagonal and decimal scales “ .60
- 3930. Boxwood Oblong Protractor, 6 inches long, 1 3/4 inches wide, scales of 1/4, 1/2, 3/4, 1 inch to foot, scale of chords, diagonal and decimal scales..... “ .40

PAPER PROTRACTORS.

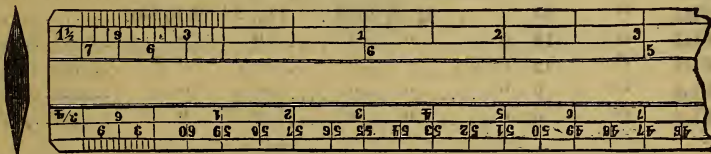
- 3950. Large Bristol Board, Full Circle, 1/4 degrees.....each, .40
- 3952. Large Drawing Paper, “ “ 1/4 “ “ .30
- 3954. Large Fine Tracing Paper, “ “ 1/4 “ “ .30

The Tracing Paper Protractors are used for topographical drawing in the U. S. Engineers' offices, and have given entire satisfaction.

MACHINE DIVIDED DRAWING SCALES.

Best Quality.

Other Scales made to order at short notice.



Nos. 4000-4009.

- | | | One side. | Other side. | Each. |
|-------|--------------------------------|----------------------|---------------------------------|--------|
| 4000. | Double Beveled Boxwood, 24 in. | 1/8, 1/4, 1/2, 1 in. | 3/8, 3/4, 1 1/2, 3 in. to foot, | \$4 00 |
| 4002. | Double Beveled “ | 18 “ | “ “ “ “ “ “ | 3.00 |
| 4004. | Double Beveled “ | 15 “ | “ “ “ “ “ “ | 2.20 |
| 4006. | Double Beveled “ | 12 “ | “ “ “ “ “ “ | 1.50 |
| 4008. | Double Beveled “ | 9 “ | “ “ “ “ “ “ | 1.12 |
| 4009. | Double Beveled “ | 6 “ | “ “ “ “ “ “ | .85 |

Nos. 4020 to 4026 have but one scale on each edge, and are figured to read from left to right, and right to left.

- | | | One side. | Other side. | Each. |
|-------|--------------------------------|--------------|---------------------------|--------|
| 4021. | Double Beveled Boxwood, 24 in. | 1/2, 1/2, in | 1/2, 1 inch to the foot.. | \$4.00 |
| 4023. | Double Beveled “ | 18 “ | “ “ “ “ “ “ | 3.00 |
| 4027. | Double Beveled “ | 12 “ | “ “ “ “ “ “ | 1.65 |

MACHINE DIVIDED SCALES (continued).

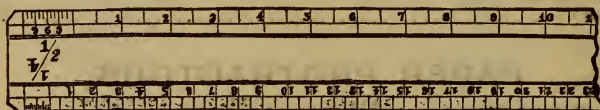
COMPARING SCALES.



Nos. 4030-4036.

Nos. 4030 to 4036 have only one scale on each edge; all graduations begin on the same line, which extends across the scale from one edge to the other, and are figured from left to right. At a glance a distance can be measured in any of the four scales. Inches and 1/2ths are easily reduced to inches and 1/8ths, Metric measure to inches, etc.

			One side.	Other side.	Each.
4030.	Double Beveled Boxwood,	24 inch,	1/16 and 1/8 inch,	1/10 inch and Metric...	\$4.00
4032.	Double Beveled	18 "	" "	" "	3.00
4036.	Double Beveled	12 "	" "	" "	1.65



Nos. 4050 to 4059 1/2.

			One edge.	Other edge.	Each.
4050.	Flat Boxwood,	24 inch	1/8, 1/4 inch	1/2, 1 inch to foot.	\$3.00
4052.	Flat	18 "	" "	" "	2.00
4054.	Flat	15 "	" "	" "	1.50
4055.	Flat	12 1/2 "	" "	" "	1.25
4056.	Flat	12 "	" "	" "	1.00
4058.	Flat	9 "	" "	" "	.85
4059.	Flat	6 "	" "	" "	.55
4059 1/2.	Flat	4 "	" Pocket Size,	" "	.45
4070.	Flat	24 "	3/8, 3/4 inch	1 1/2, 3 inch to foot.	3.00
4072.	Flat	18 "	" "	" "	2.00
4076.	Flat	12 "	" "	" "	1.00
4078.	Flat	9 "	" "	" "	.85
4079.	Flat	6 "	" "	" "	.55

ARCHITECTURAL AND MECHANICAL DRAFTING SCALES.

The Scales, which have but one scale on each edge, are figured to read from left to right and right to left.

			One edge.	Other edge.	Each.
4090.	Flat Boxwood,	24 inch,	1/4 inch	3/4 inch to foot.	\$3.00
4092.	Flat	18 "	" "	" "	2.00
4096.	Flat	12 "	" "	" "	1.00
4100.	Flat	24 "	Detail Scale, 1/4 & 1/8 inch,	1/8 inch to foot.	3.00
4102.	Flat	18 "	" "	" "	2.00
4106.	Flat	12 "	" "	" "	1.00
4116.	Flat	12 "	1/8 inch	1/4 inch to foot.	1.00
4126.	Flat	12 "	" "	3/4 "	1.00
4136.	Flat	12 "	1/4 inch	1/2 inch to foot.	1.00
4146.	Flat	12 "	1/2 "	1 "	1.00

VARIOUS SCALES.

		One edge.	Other edge.	Each.
4156. Flat Boxwood,	12 inch,	$\frac{1}{10}$ inch,	$\frac{1}{2}$ inch	\$1.00
4166. Flat “	12 “	$\frac{1}{16}$ “	$\frac{1}{8}$ “	1.00
4176. Flat “	12 “	$\frac{1}{16}$ “	Metric	1.00

MACHINE DIVIDED ENGINEERS' SCALES.

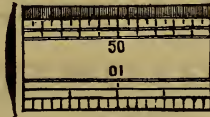
In $\frac{1}{10}$ ths.



Nos. 4301-4327.

		One edge.	Other edge.	Each.
4301. Flat Boxwood,	12 inch,	100	80 parts to inch	3.00
4303. Flat “	12 “	60	30 “ “	1.50
4305. Flat “	12 “	50	10 “ “	1.50
4307. Flat “	12 “	40	20 “ “	1.50
4321. Flat “	6 “	100	80 “ “	1.75
4323. Flat “	6 “	60	30 “ “	1.00
4325. Flat “	6 “	50	10 “ “	1.00
4327. Flat “	6 “	40	20 “ “	1.00

OFFSET SCALES.



Nos. 4341-4347.

		One edge.	Other edge.	Each.
4341. Flat Offset Boxwood,	2 inch,	100	80 parts to inch	.90
4343. Flat Offset “	2 “	60	30 “ “	.50
4345. Flat Offset “	2 “	50	10 “ “	.50
4347. Flat Offset “	2 “	40	20 “ “	.50

See $\frac{1}{10}$ and $\frac{1}{12}$ inch, and Metric Comparing Scales, Nos. 4030-4036.

ENGINEERS' DECIMAL SCALES.

$\frac{1}{10}$ and $\frac{1}{100}$ of a foot.

		One edge.	Other edge.	Each.
4401. Flat Boxwood,	12 inch,	1000	800 parts to foot	\$3.00
4403. Flat “	12 “	600	300 “ “	1.50
4405. Flat “	12 “	500	100 “ “	1.50
4407. Flat “	12 “	400	200 “ “	1.50
4441. Flat Offset Boxwood,	$\frac{2}{10}$ foot long,	1000	800 “ “	1.00
4443. Flat Offset “	“ “	600	300 “ “	.60
4445. Flat Offset “	“ “	500	100 “ “	.60
4447. Flat Offset “	“ “	400	200 “ “	.60

MACHINE DIVIDED SCALES (continued)

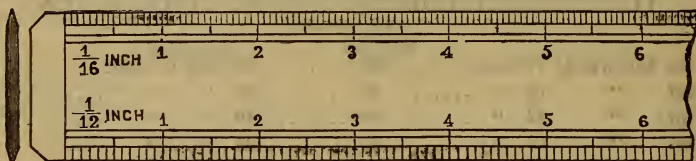
METRIC SCALES.

4501. Flat Boxwood, 50 Centimetres long	each, \$1.75
4503. Flat " 30 " "	" 1.20
4505. Flat " 20 " "	" .90
4507. Flat " 10 " "	" .55
Same as 4785, Triangular, 12 inches long.....	" 2.00

METER AND INCH COMPARING SCALES.

All divisions begin on the same line (which extends across the scale, from one edge to the other). The figures read from left to right.

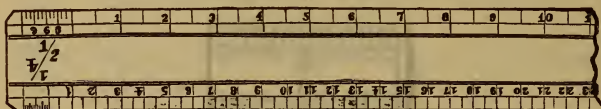
4520. Flat Boxwood, 24 inch,.....	One edge. Metric,.....	Other edge. $\frac{1}{16}$ inch.....	Each. \$3.00
4522. Flat " 18 "	" "	" "	2.00
4526. Flat " 12 "	" "	" "	1.12



Same as 4030. Double Beveled Boxwood, 24 inch,.....	One edge. $\frac{1}{12}$ & $\frac{1}{16}$ inch,.....	Other edge. $\frac{1}{10}$ & Metric... ..	4.00
" 4032. Double Beveled " 18 "	" "	" "	3.00
" 4036. Double Beveled " 12 "	" "	" "	1.65

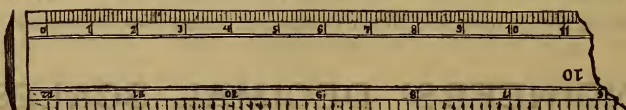
IVORY MACHINE DIVIDED SCALES.

Best Quality.



4606. Ivory, Flat, 12 inch,.....	One edge. $\frac{1}{8}$, $\frac{1}{4}$ inch.	Other edge. $\frac{1}{2}$, 1 inch to foot.....	Each \$4.00
4609. Ivory, " 6 "	" "	" "	2.25
4616. Ivory, " 12 "	$\frac{3}{8}$, $\frac{3}{4}$ "	$1\frac{1}{2}$, 3 "	4.00

ENGINEERS' SCALES.



4631. Ivory, Flat, 12 inch,.....	One edge. 100.....	Other edge. 80 parts to inch.....	\$6.00
4633. Ivory, " 12 "	60.....	30 " "	4.00
4635. Ivory, " 12 "	50.....	10 " "	4.00
4637. Ivory, " 12 "	40.....	20 " "	4.00
4641. Ivory, " 6 "	100.....	80 " "	4.50
4643. Ivory, " 6 "	60.....	30 " "	3.00
4645. Ivory, " 6 "	50.....	10 " "	3.00
4647. Ivory, " 6 "	40.....	20 " "	3.00
4651. Ivory, " Offset, 2 inch.....	100.....	80 " "	1.50
4653. Ivory, " Offset, 2 "	60.....	30 " "	1.00
4655. Ivory, " Offset, 2 "	50.....	10 " "	1.00
4657. Ivory, " Offset, 2 "	40.....	20 " "	1.00

TRIANGULAR BOXWOOD SCALES.



No. 4700-4709.

4700.	Triangular Boxwood,	24 inch,	div. $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 2, 3, 4 in. to foot,	Each.
			and $\frac{1}{8}$ inch,	\$5.00
4702.	Triangular	“	18 “ “ “ “ “ “ “ “ “ “	3.00
4706.	Triangular	“	12 “ “ $\frac{3}{8}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 in. to foot,	
			and $\frac{1}{8}$ inch,	2.00
4708.	Triangular	“	9 “ “ “ “ “ “ “ “ “ “	1.65
4709.	Triangular	“	6 “ “ “ “ “ “ “ “ “ “	1.25

COMBINATION TRIANGULAR SCALES.

4726.	Triangular Boxwood,	12 inch, divided	Each.	
		$\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1 inch to foot, $\frac{1}{10}$, $\frac{1}{8}$, $\frac{1}{6}$ inch,	\$2.00	
4728.	“	“	12 in., div. $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $\frac{5}{8}$, $\frac{1}{2}$, $1\frac{1}{2}$, 3 in. to ft., $\frac{1}{10}$, $\frac{1}{8}$ in.,	2.00

ENGINEERS' TRIANGULAR SCALES.



Nos. 4751-4759.

4751.	Triangular Boxwood,	24 inch, divided 10, 20, 30, 40, 50, 60 parts to inch,	\$5.00	
4753.	Triangular	“	18 “ “ “ “ “ “ “ “ “ “	3.00
4755.	Triangular	“	12 “ “ “ “ “ “ “ “ “ “	2.00
4757.	Triangular	“	9 “ “ “ “ “ “ “ “ “ “	1.65
4759.	Triangular	“	6 “ “ “ “ “ “ “ “ “ “	1.25
4761.	Triangular	“	Offset, 2 inch, div. 10, 20, 30, 40, 50, 60 parts to inch,	.75
4775.	Triangular	“	12 inch, divided 20, 30, 40, 50, 60, 80 parts to inch..	2.00
4785.	Triangular Boxwood,	12 inch, Metric Measure	2.00	

Flat Metric Scales, see Nos. 4501 to 4526, and 4030 to 4036.

DARLING, BROWN & SHARPE'S NEW METALLIC TRIANGULAR SCALES.

4806.	Metal,	12 inch, divided $\frac{3}{8}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, 3 inch and $\frac{1}{8}$ inch,	Each.
			(List Price, \$3.25) \$3.00
4845.	Metal,	12 inch, divided 10, 20, 30, 40, 50, 60 parts to inch, (“ “ 3.25)	3.00

TRIANGULAR SCALE GUARDS.



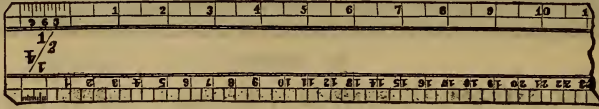
4880.	Triangular Scale Guard or Holder.....	each,	.25
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This appliance is made of plated metal. It can be attached to any part of the scale, and overcomes the necessity of searching for the scale in use.

HAND DIVIDED SCALES.

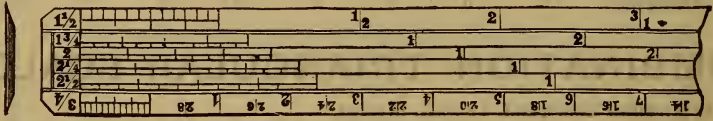
Boxwood and Ivory.

Machine Divided Scales, Best quality, see Nos. 4000, etc.



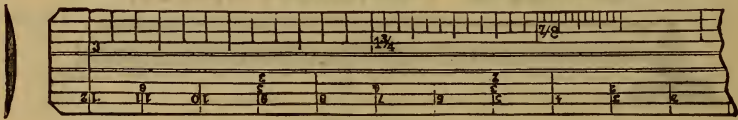
Nos. 5000-5024.

- | | |
|---|-----------|
| 5000. Boxwood, Hand Divided, Flat, 12 inch, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, 1 inch to foot..... | Each. .50 |
| 5004. Boxwood, Hand Divided, " 6 " " " " " " | .35 |
| 5020. Ivory, Hand Divided, " 12 " " " " " " | \$3.00 |
| 5024. Ivory, Hand Divided, " 6 " " " " " " | 2.00 |



Nos. 5040. 5054.

- | | |
|--|-------|
| 5040. Boxwood, Hand Divided, Flat, Universal Scale, 12 inch, cont. 16 scales, \$1.50 | Each. |
| 5054. Ivory, Hand Divided, " " " 12 " " 16 " | 3.00 |



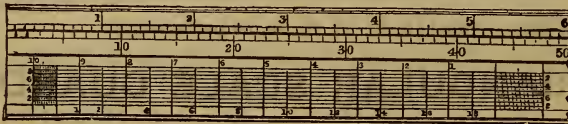
Nos. 5060. 5064.

- | | |
|---|--------------|
| 5060. Boxwood, Hand Divided, Flat, Universal Scale, 12 inch, containing 16 scales, all running to the edge..... | Each. \$1.50 |
| 5064. Ivory, Hand Divided, Flat, Universal Scale, 12 inch, containing 16 scales, all running to the edge..... | 3.00 |

ENGINEERS' SCALES.

- | | | | | |
|---|----|----------------------|-------------|--|
| | | One edge. | Other edge. | |
| 5103. Boxwood, Hand Divided, Flat, 12 inch, | 60 | 30 parts to inch.... | \$1.00 | |
| 5105. Boxwood, Hand Divided, " 12 " " | 50 | 10 " " | 1.00 | |
| 5107. Boxwood, Hand Divided, " 12 " " | 40 | 20 " " | 1.00 | |

PLOTTING SCALES.



Nos. 5140. 5142.

- | | |
|---|-----------|
| 5140. Ivory Plotting Scale, 6 inches | each, .75 |
| 5142. Boxwood Plotting Scale, 6 inches..... | " .15 |

GUNTER SCALES.

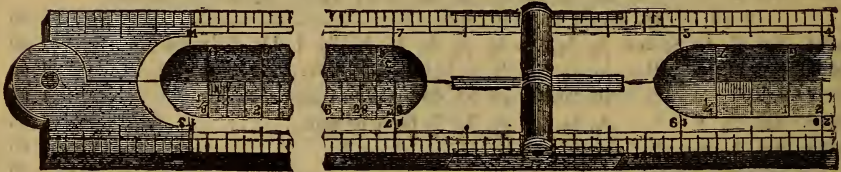
- | | |
|---|--------------|
| 5160. Boxwood Gunter Scale, 24 inches | each, \$1.50 |
| 5162. Boxwood Gunter Scale, 12 " | " 1.00 |

Gunter Scales are also made in a cheaper grade.
Other Scales furnished at short notice.

FOLDING SCALE RULES.

Very Best Quality.

INSIDE EDGES BEVELED AND DIVIDED LIKE DRAWING SCALES.

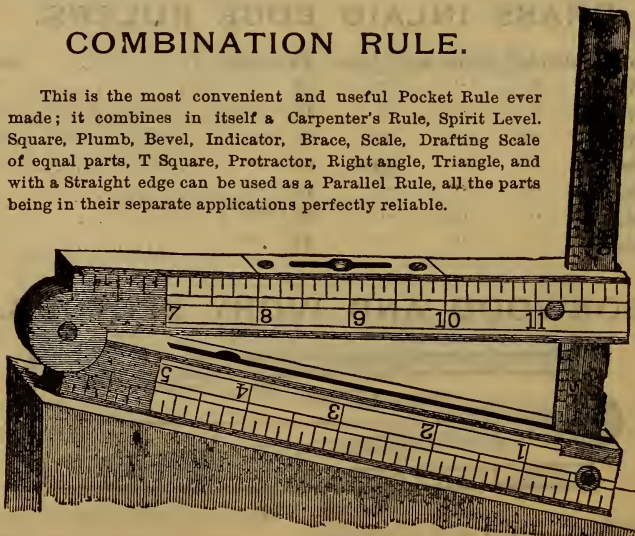


Nos. 5386-5404.

- 5386. Ivory, Beveled Edge, 2 foot, 4 fold, German Silver Mountings, high finish, outside divided into inches and $\frac{1}{8}$ ths and inches and $\frac{1}{2}$ ths; the inside, not beveled edge, into inches and $\frac{1}{10}$ ths. Each beveled edge has but one scale, thus avoiding all confusion, viz.: $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ inch to foot..... each, \$7.50
- 5388. Ivory, Beveled Edge, 2 foot, 4 fold, German Silver Mountings, high finish, outside divided into inches and $\frac{1}{8}$ ths and inches and $\frac{1}{2}$ ths; the inside, not beveled edge, into inches and $\frac{1}{10}$ ths. Each beveled edge has but one scale, thus avoiding all confusion, viz.: $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ inch to foot. In neat Morocco Case..... " 8.50
No. 5388 is nicely put up, and has been frequently sold as a holiday present.
- 5392. Boxwood, Beveled Edge, 2 foot, 4 fold, Brass Mountings, same as No. 5386..... each, 3.00
Other graduations furnished at short notice.
- 5396. Ivory, Beveled Edge, 2 foot, 4 fold, German Silver Mountings, divided: $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{10}$ inches, $\frac{1}{10}$ of feet, beveled edges contain $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{8}$, $\frac{1}{4}$ inch scales..... " 5.50
- 5400. Boxwood, Beveled Edge, 2 foot, 4 fold, Brass Mountings, various scales on beveled edges..... " 2.00
- 5404. Boxwood, Beveled Edge, 2 foot, 4 fold, stamped, with Drawing Scales on beveled edges..... " .75

COMBINATION RULE.

This is the most convenient and useful Pocket Rule ever made; it combines in itself a Carpenter's Rule, Spirit Level, Square, Plumb, Bevel, Indicator, Brace, Scale, Drafting Scale of equal parts, T Square, Protractor, Right angle, Triangle, and with a Straight edge can be used as a Parallel Rule, all the parts being in their separate applications perfectly reliable.

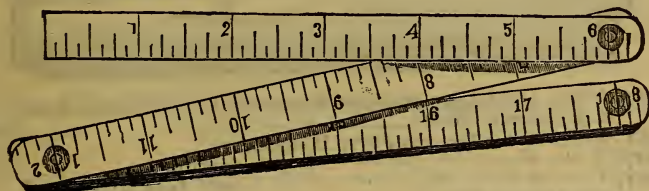


No. 5410.
5411.

- 5410. Boxwood Combination Rule, 1 foot, 2 fold..... each, \$2.50
- 5411. Boxwood Combination " 1 " 2 " in neat Morocco Case... " 3.50

SKELETON POCKET RULE.

Very Light.



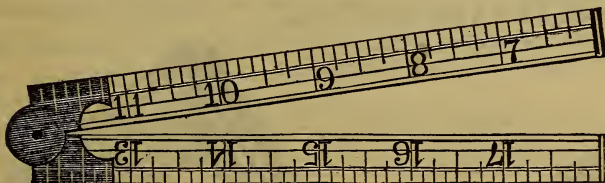
- | | | | |
|-------|-------------------------|---|--------------|
| 5420. | Skeleton Rule, Ivory, | 1 meter, 10 fold, one side inches, and other side Metric..... | each, \$1.75 |
| 5422. | Skeleton Rule, Ivory, | $\frac{1}{2}$ meter, 10 fold, one side inches, and other side Metric..... | " 1.00 |
| 5428. | Skeleton Rule, Boxwood, | 1 meter, 10 fold, one side inches, and other side Metric..... | " .50 |
| 5430. | Skeleton Rule, Boxwood, | $\frac{1}{2}$ meter, 10 fold, one side inches, and other side Metric..... | " .30 |
| 5440. | Skeleton Rule, Boxwood, | 4 foot, 8 fold, $\frac{1}{8}$ inch on both sides..... | " .50 |
| 5442. | Skeleton Rule, Boxwood, | 4 " 8 " one side $\frac{1}{8}$ inches, and other side Metric..... | " .50 |
| 5444. | Skeleton Rule, Boxwood, | 2 foot, 4 fold, $\frac{1}{8}$ inches..... | " .35 |
| 5450. | Skeleton Rule, Boxwood, | 4 foot, 8 fold, flexible, one side $\frac{1}{8}$ inches, and other side Metric..... | " 75 |

BOXWOOD SKELETON RULES,

With Springs.

- | | | |
|-------|---|--------------|
| 5454. | Skeleton Rule, with Self-Acting Springs, to keep the Rule in a straight position, 4 foot, 8 fold, $\frac{1}{8}$ inches..... | each, \$1.00 |
| 5456. | Skeleton Rule, with Springs, 2 foot, 4 fold, $\frac{1}{8}$ inches..... | " .60 |

PRACTICAL POCKET RULES.



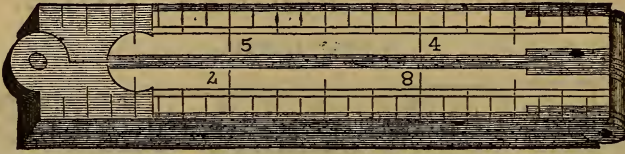
** These Rules are machine-divided, and not stamped with steel dies; the lines are consequently sharp and distinct, and the sub-divisions accurate.*

All figures are large and prominent, and finish far superior to factory made Rules.

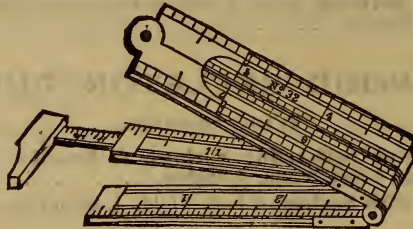
- | | |
|-------|--|
| 5464. | Boxwood, 2 foot, 4 fold, Brass Mountings, having but one scale on each edge. Outside edges, $\frac{1}{8}$ & $\frac{1}{16}$ inches. Inside edges, $\frac{1}{8}$ & $\frac{1}{16}$ inches. each, \$1.00 |
| 5470. | Boxwood, 2 foot, 4 fold, Brass Mountings, with only one scale on each side, and extra large figures. Outside edge, $\frac{1}{8}$ inches. Inside edge, $\frac{1}{8}$ inches..... " 1.00 |

Other divisions furnished at short notice.

POCKET RULES.

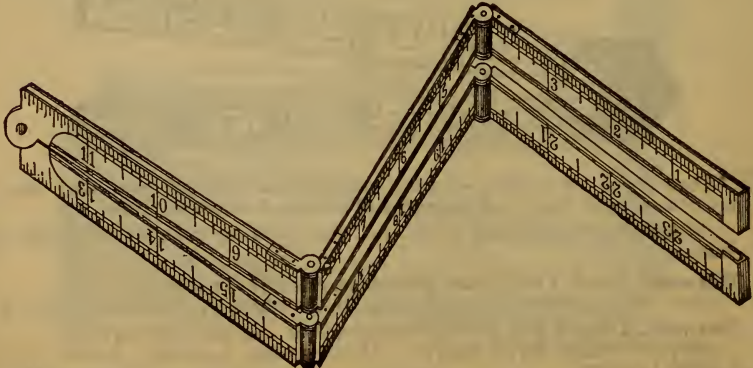


5500.	Ivory, 2 foot, 4 fold, German Silver Mountings, and both edges lined with German Silver	each, \$5.00
5504.	Ivory, 2 foot, 4 fold, German Silver Mountings	4.00
5508.	Ivory, 2 " 4 " " " " narrow	4.00
5520.	Ivory, 1 " 4 " " " " and both edges lined with German Silver	1.75
5524.	Ivory, 1 foot, 4 fold, German Silver Mountings	1.25
5540.	Boxwood, 2 foot, 4 fold, Brass Mountings, and both edges lined with Brass	1.00
5544.	Boxwood, 2 foot, 4 fold, Brass Mountings, and outside edge lined with Brass	.80
5550.	Boxwood, 2 foot, 4 fold, Brass Mountings, with Drawing Scales	.35
5554.	Boxwood, 2 " 4 " " " " "	.25
5560.	Boxwood, 2 " 4 " " " " narrow	.25
5564.	Boxwood, 2 " 4 " " " " "	.20
5570.	Boxwood, 1 " 4 " " " " and both edges lined with Brass	.65
5574.	Boxwood, 1 foot, 4 fold, Brass Mountings	.25
5578.	Boxwood, 1 " 4 " " " " "	.17



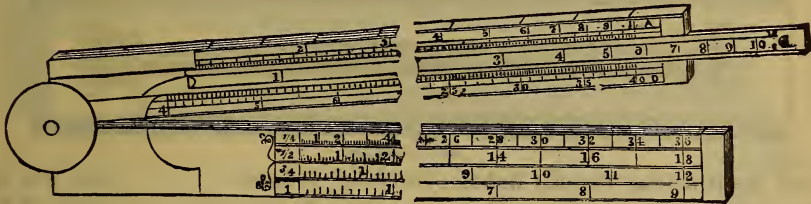
No. 5580.

5580.	Boxwood, 1 foot, 4 fold, Brass Mountings, with Caliper	each, .85
5584.	Boxwood, 6 inch, 2 " " " " " "	.40
5590.	Boxwood, 2 foot, 2 fold (folds to 1 foot), and both edges lined with Brass	1.00
5592.	Boxwood, 2 foot, 2 fold (folds to 1 foot)	.50



5596.	Boxwood, 3 foot, 6 fold (folds to 6 inch)	each, \$1.00
5598.	Boxwood, 2 " 6 " (" 4 ")	.60

SLIDE RULES.



- 5614. Slide Rule, Boxwood, Gunter's Slide, $\frac{1}{8}$, $\frac{1}{12}$ and $\frac{1}{16}$ inches, $\frac{1}{100}$ of a foot, and Drafting Scales..... each, \$1.00
- 5616. Slide Rule, Boxwood, Edges lined with Brass, Gunter's Slide, $\frac{1}{12}$ and $\frac{1}{16}$ inches, Drafting and Engineers' Scales..... " 2.00
- Treatise on the use of the Slide Rule (Weale's Series)..... " 1.00
- The Engineers' Slide Rule and its Applications. By William Tonkes " .25

MEASURING RODS AND YARD STICKS.

- 5630. Six-Foot Measuring Rod, divided $\frac{1}{8}$ inches, one side figured from left to right, other side from right to left..... each, \$2.50
- 5632. Five-Foot Measuring Rod, divided $\frac{1}{8}$ inches, one side figured from left to right, other side from right to left..... " 1.75
- 5634. Four-Foot Measuring Rod, divided $\frac{1}{8}$ inches, one side figured from left to right, other side from right to left..... " 1.00
- 5636. Three-Foot Measuring Rod, divided $\frac{1}{8}$ inches, one side figured from left to right, other side from right to left..... " .55
- 5640. Yard Stick, Wide and Thin..... " .50
- 5644. Yard Stick, Plain..... " .25

Other sizes made to order.

CEILING MEASURING RODS.

For Measuring height of Rooms, sizes of Windows, etc.

The Rods are in two sections, one of which can be extended and is held in position by self-acting springs. The graduations are so arranged that the measurements are read on the lower rod.

- 5660. Ceiling Measuring Rod, 16 feet, slides and closes to 8 feet..... each, \$8.75
- 5661. Ceiling Measuring Rod, 12 " " " 6 "..... " 6.50
- 5662. Ceiling Measuring Rod, 10 " " " 5 "..... " 5.00
- 5663. Ceiling Measuring Rod, 8 " " " 4 "..... " 4.00
- 5664. Ceiling Measuring Rod, 6 " " " 3 "..... " 3.00
- 5665. Ceiling Measuring Rod, 5 " " " 2 $\frac{1}{2}$ "..... " 2.50

Special sizes made to order.

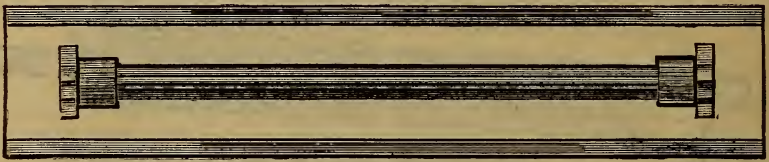
GAUGE AND WANTAGE RODS.

For Measuring Liquid contents of Barrels.

- 5674. Boxwood Gauging and Wantage Rods.....Set of 2 Rods, \$3.00
- 5676. Hardwood Gauging and Wantage Rods..... " " 1.12

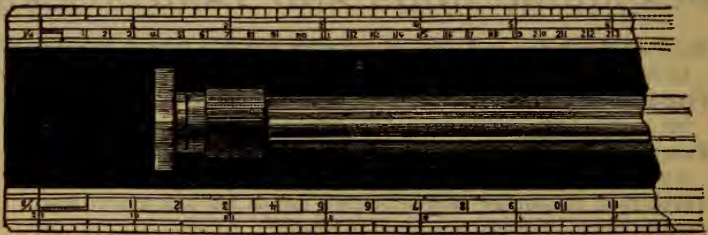
Other styles and qualities furnished to order.

ROLLING PARALLEL RULERS.



No. 5700-5738.

5700.	Metal	Rolling Parallel Ruler,	Fine Finish,	24 inches	.....	each,	\$20.00
5702.	Metal	“ “ “	“ “	18 “	.....	“	15.00
5704.	Metal	“ “ “	“ “	15 “	.....	“	12.00
5706.	Metal	“ “ “	“ “	12 “	.....	“	10.00
5716.	Metal	“ “ “	Good Quality,	12 “	.....	“	8.50
5732.	Ebony	“ “ “	.....	18 “	.....	“	5.00
5734.	Ebony	“ “ “	.....	15 “	.....	“	4.00
5736.	Ebony	“ “ “	.....	12 “	.....	“	3.00
5738.	Ebony	“ “ “	.....	9 “	.....	“	2.50



No. 5752. 5754.

5752.	Ebony	Rolling Parallel Ruler,	with Ivory divided edges,	18 inches	.....	each,	\$7.50
5754.	Ebony	“ “ “	“ “ “	12 “	.....	“	5.00

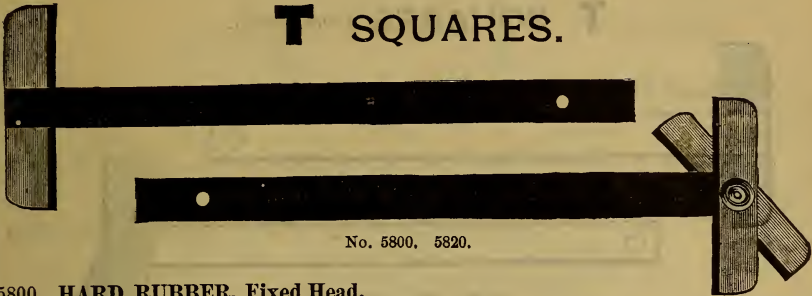
PARALLEL RULERS.



No. 5758-5780.

5758.	Ivory,	German Silver Bars	.....	each,	\$1.50		
5760.	Hard Rubber,	Best Quality.					
		24	18	15	12	9	6 inch.
	Each,	\$3.50	2.50	2.00	1.50	1.00	.75
5770.	Ebony,	American make, superior to the imported ones, which frequently warp, on account of climatic changes.					
		24	18	15	12	9	6 inch.
	Each,	\$2.50	1.50	1.20	.90	.65	.35
5780.	Ebony,	Imported, Second Grade.					
		24	18	15	12	9	6 inch.
	Each,	\$2.00	1.25	.90	.65	.40	.20

T SQUARES.



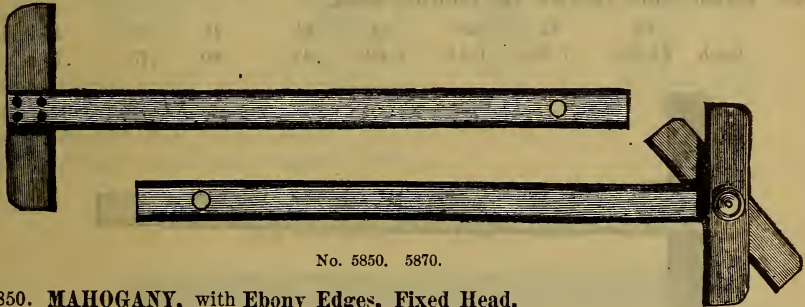
No. 5800, 5820.

5800. HARD RUBBER, Fixed Head.

	36	30	24	21	18	15	12	9	6 inch.
Each, \$	3.00	2.40	1.75	1.50	1.20	1.00	.90	.85	.65

5820. HARD RUBBER, Swivel Head.

	36	30	24	21	18	15	12	9	6 inch.
Each, \$	4.00	3.25	2.75	2.25	2.00	1.75	1.60	1.25	1.10



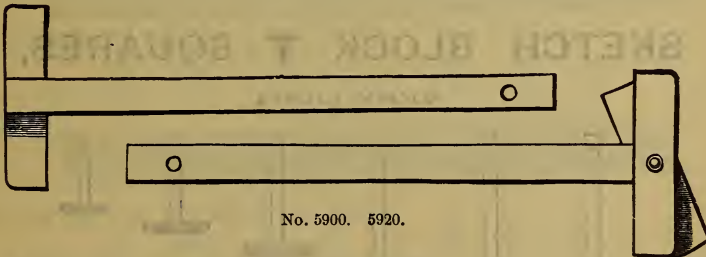
No. 5850, 5870.

5850. MAHOGANY, with Ebony Edges, Fixed Head.

	60	54	48	42	36	30	24	18	15	12 inch.
Each, \$	3.90	3.25	2.60	2.00	1.75	1.50	1.20	1.00	.90	.80

5870. MAHOGANY, with Ebony Edges, Swivel Head.

	60	54	48	42	36	30	24	18 inch.
Each, \$	4.90	4.25	3.50	3.00	2.65	2.35	2.00	1.60



No. 5900, 5920.

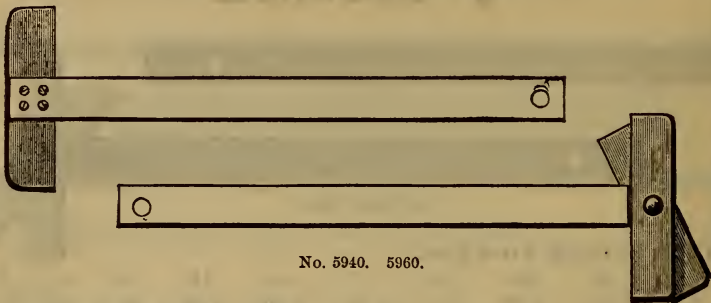
5900. MAPLE BLADE, Walnut Fixed Head.

	84	72	60	54	48	42	36	30	24	21	18	15 inch.
Each, \$	3.50	2.80	2.20	1.60	1.25	1.15	1.00	.90	.75	.60	.50	.40

5920. MAPLE BLADE, Walnut Swivel Head.

	60	54	48	42	36	30	24	21	18 inch.
Each, \$	2.85	2.00	1.75	1.65	1.50	1.35	1.20	1.10	1.00

T SQUARES (continued).



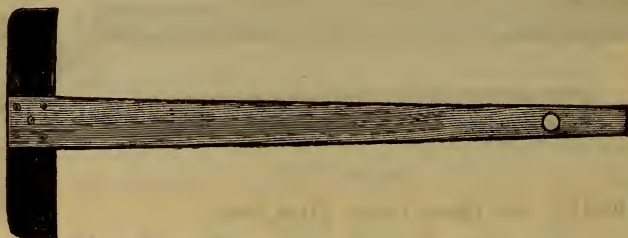
No. 5940. 5960.

5940. **HARDWOOD BLADE and Fixed Head.**

	48	42	36	30	24	21	18	15 inch.
Each, \$	1.00	.75	.65	.50	.45	.40	.35	.30

5960. **HARDWOOD BLADE and Shifting Head.**

	48	42	36	30	24	21	18	15 inch.
Each, \$	1.60	1.35	1.15	1.00	.95	.80	.75	.70



5980. **HARDWOOD TAPERED BLADE, Fixed Walnut Head.**

	60	54	48	42	36	30	24 inch.
Each, \$	3.00	2.50	2.00	1.75	1.50	1.20	1.00

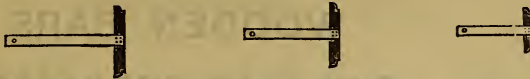
SKETCH BLOCK T SQUARES,

VERY LIGHT



6000. **HARDWOOD BLADE, Fixed Walnut Head.**

	18	15	12	9	6	4 inch.
Each, \$	.42	.38	.34	.30	.26	.22



6020. STEEL Engravers T Squares, Nickel Plated Blade, Fixed Brass Head.				
	12	9	6	4 inch.
Each, \$2.25		1.50	1.25	1.00
6040. STEEL Engravers T Squares, Nickel Plated Blade, Swivel Brass Head.				
	12	9	6	4 inch.
Each, \$2.50		1.75	1.50	1.25
6060. STEEL Nickel Plated Blade, Fixed Metal Head.				
	36	30	24	18 inch.
Each, \$6.50		5.50	4.50	3.25
6070. STEEL, Nickel Plated Blade, Swivel Metal Head.				
	36	30	24	18 inch.
Each, \$8.00		7.00	6.00	4.75

T SQUARE



No. 6080. 6082.

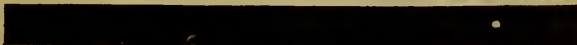


No. 6084.

SWIVELS.

6080. Plated Swivel, with Nut and Washer.....	each,	.75
6082. Brass Swivel, " " "	"	.60
6084. Brass Swivel, Milled Head.....	"	.40
6086. Brass Swivel, with Cross Bar Head.....	"	.30

STRAIGHT EDGES.



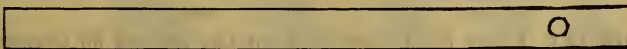
6100. HARD RUBBER.								
	42	36	30	24	21	18	15	12 inch.
Each, \$2.50		2.00	1.50	1.00	.90	.70	.50	.40



6120. MAHOGANY, EBONY LINED.								
	60	54	48	42	36	30	24	18 15 inch.
Each, \$2.75		2.00	1.60	1.25	1.00	.70	.55	.50 .40



6140. HARDWOOD, Beveled Edges, Thick.								
	72	60	54	48	42	36	30	24 18 15 12 inch.
Each, \$1.75		1.25	.90	.65	.50	.40	.30	.25 .20 .18 .15



6160. STEEL, Nickel Plated, Beveled Edges.								
	72	60	48	42	36	30	24	18 15 inch.
Each, \$15.00		11.00	8.00	6.50	5.00	4.00	3.00	2.00 1.75

6180. STEEL, Straight Edges, with Square Edges.			
	48 inch, \$6.00	36 inch, \$4.00	24 inch, \$2.00 each.



No. 6200.

WOODEN BARS FOR BEAM COMPASSES.

	72	60	48	42	36	30	24 inch.
Each, . .	.90	.75	.65	.55	.45	.40	.35

TRIANGLES.

All Triangles measure this way.


 No. 6300.
30 and 60 Degrees.

 6400.
45 Degrees.

 6500.
22½ and 67½ Degrees.

6300. HARD RUBBER, 30 and 60 Degrees.

	16	15	14	13	12	11	10	9	8	7	6	5	4	3 inch.
Each, \$	1.75	1.50	1.25	1.00	.90	.75	.65	.60	.50	.40	.35	.30	.25	.20

6400. HARD RUBBER, 45 Degrees.

	16	15	14	13	12	11	10	9	8	7	6	5	4	3 inch.
Each, \$	2.50	2.25	2.00	1.75	1.50	1.25	1.00	.80	.65	.55	.45	.40	.35	.30

6500. HARD RUBBER, 22½ and 67½ Degrees.

	15	13	11	9	7 inch.
Each, \$	1.50	1.00	.75	.60	.40

6550. HARD RUBBER, Solid, 30 and 60 Degrees.

8 inch, .35	6 inch, .25	4 inch, .18 each.
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6570. HARD RUBBER, Solid, 45 Degrees.

6 inch, .35	5 inch, .25	4 inch, .18 each.
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No. 6600.



6620.

6600. MAHOGANY, Ebony lined inside and outside, 30 and 60 Degrees.

	24	21	18	15	13	11	9	8	7 inch.
Each, \$	2.50	2.00	1.50	1.25	1.00	.75	.60	.50	.45

6620. MAHOGANY, Ebony lined inside and outside, 45 Degrees.

	24	20	18	16	14	12	10	8	7	6 inch.
Each, \$	3.00	2.20	1.75	1.50	1.25	1.00	.80	.65	.55	.45

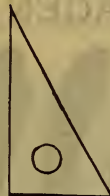
TRIANGLES (continued).



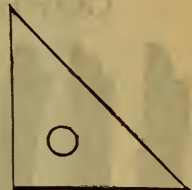
No. 6700.



6720.



6800.



6820.

6700. **HARDWOOD, 30 and 60 Degrees.**

	15	13	11	9	8	7	6 inch.
Each, .70	.55	.45	.35	.30	.25	.22	

6720. **HARDWOOD, 45 Degrees.**

	14	12	10	8	7	6	5 inch.
Each, .70	.55	.45	.35	.30	.25	.22	

6800. **HARDWOOD, Solid, 30 and 60 Degrees.**

	9	7 inch.
Each, .20	.15	

6820. **HARDWOOD, Solid, 45 Degrees.**

	8	6 inch.
Each, .20	.15	

METAL TRIANGLES.

6900. **STEEL, Nickel Plated, 30 and 60 Degrees, Open Centre.**

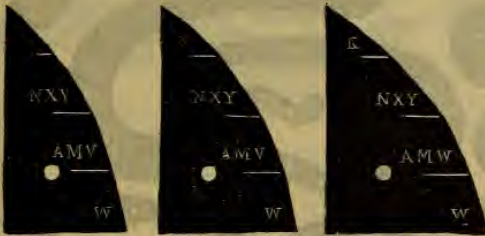
	15	10½	8	7	6 inch.
Each, \$6.50	4.50	4.00	3.75	3.25	

6920. **STEEL, Nickel Plated, 45 Degrees, Open Centre**

	12	10	8	6½	5 inch.
Each, \$6.50	5.50	4.50	3.75	3.25	

6950. **STEEL, Solid, Nickel Plated, with Knob for Lithographers.**

	12	10	8	7	6	5 inch.
Each, \$3.00	2.75	2.25	1.80	1.40	1.00	



6960. **HARD RUBBER Lettering Triangles, Set of 3Set, \$1.25**



6964. **HARD RUBBER, Roof Pitches, Set of 6Set, \$3.00**

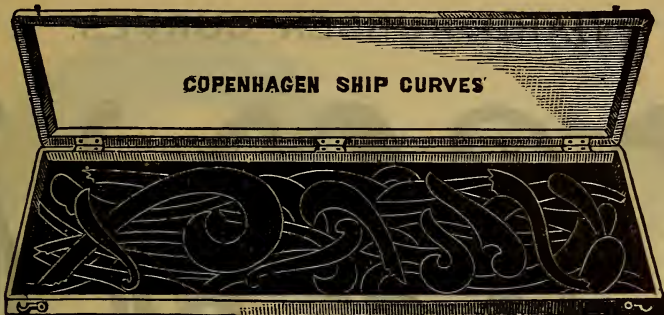
HARD RUBBER
COPENHAGEN SHIP CURVES.



No. 7000. 7020.

Copies of the original Danish "Kopenhagen" Curves; as they are made of rubber, they keep their shape, and have smooth working edges

See description on next page.



No. 7000.

7000. Set of 45 Hard Rubber Ship Curves, Nos. 1 to 45 (see illustration on previous page), in neat Polished Case... \$30.00

7020. Hard Rubber Ship Curves, Separate, illustration on previous page:

Pattern No. 1	2	3	4	5	6	7	8	9	10	11	12
Each,	\$1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	.80	.80	.75
Pattern No. 13	14	15	16	17	18	19	20	21	22	23	
Each,	.80	.75	1.00	.80	.50	.50	.55	.55	.45	.45	.45
Pattern No. 24	25	26	27	28	29	30	31	32	33	34	
Each,	.45	.45	.45	.45	.35	.35	.40	.35	.35	.40	.40
Pattern No. 35	36	37	38	39	40	41	42	43	44	45	
Each,	.35	.35	.35	.30	.25	.30	.30	.30	.30	.25	

Set of 10 Ship Curves, for Mechanical Drawing.

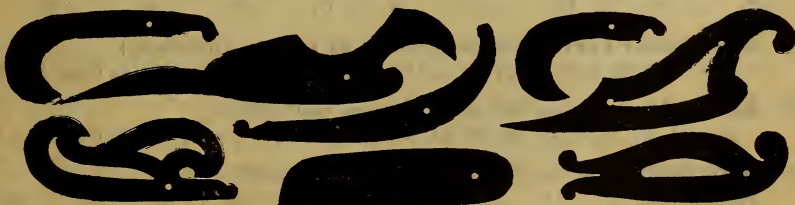


No. 7050. 7052.

7050. HARD RUBBER, in strong, neat Case..... Set, \$6.00

7052. HARD RUBBER, in Box..... " 5.25

CARRIAGE AND SLEIGH BUILDERS' CURVES,



7080. Set of 8 Hard Rubber Curves, in Case.....Set, \$5.50

WOODEN SHIP CURVES.

7090. WOODEN SHIP CURVES, 10 in Set " 5.00

HARD RUBBER CURVES.



- 7100. **Hard Rubber Curves, complete Set of 23 Curves, containing:**
 Nos. 50 to 70, Spiral No. 7130, and Combination No. 7135... Set, in Case, \$16.50
 - 7105. **Hard Rubber Curves, Set of 12 Curves, containing:**
 Nos. 51, 53, 55, 57, 58, 59, 60, 61, 63, 64, 66, 67.....Set, in Case, 7.25
 - 7120. **Hard Rubber Curves, SEPARATE (see illustrations) :**
- | | | | | | | | | | | | |
|--------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pattern Nos. | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | |
| Each, | \$1.00 | .85 | .85 | .75 | .75 | .50 | .40 | .50 | .50 | .50 | |
| Pattern Nos. | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| Each, | .50 | .50 | .45 | .35 | .40 | .40 | .35 | .35 | .35 | .25 | .22 |

Other styles furnished at short notice.



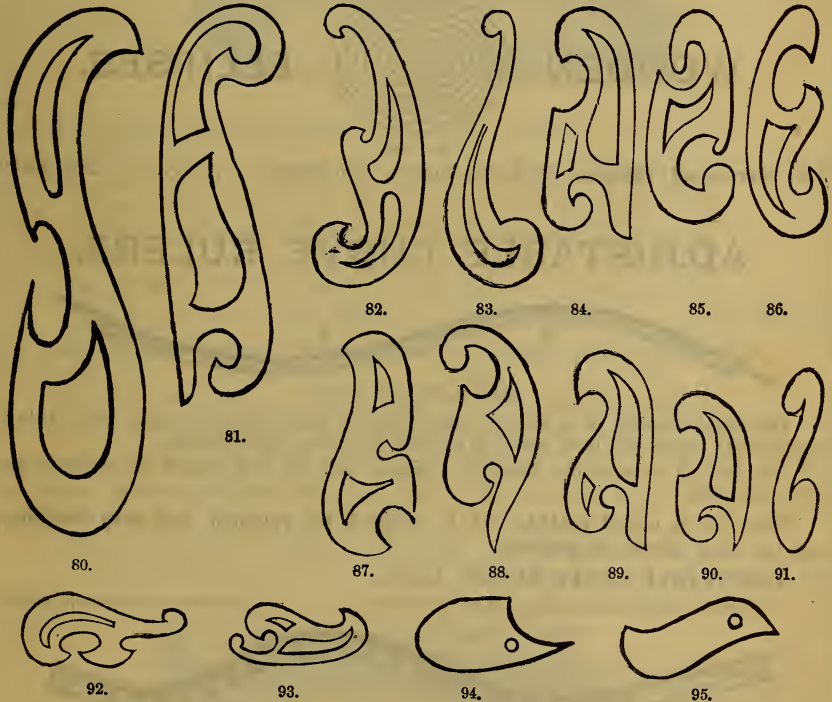
No. 7130.



7135.

7130. **Hard Rubber Spiral Curve**.....each, \$1.50
 The Spiral Curve contains every curve to the limit of its size.
7135. **Hard Rubber Combination Curve**each, 2.25

WOODEN CURVES.

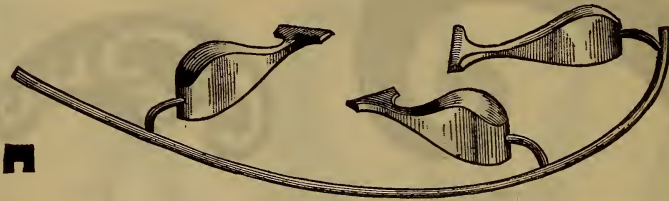


7160. **Wooden Curves, Set of 15 Curves, containing Nos. 81 to 95.** .Set, in Box, \$5.75

7165. **Wooden Curves, SEPARATE.**

Pattern Nos.	80	81	82	83	84	85	86	87
Each,	.55	.38	.35	.35	.35	.35	.35	.35
Pattern Nos.	88	89	90	91	92	93	94	95
Each,	.35	.30	.30	.25	.25	.25	.15	.15

SPLINES AND WEIGHTS.



No. 7200-7230.

7200. Hard Rubber Splines, with Groove, to hold points of weights.
- | | | | | | | |
|-------|-----|-----|-----|-----|-----|----------|
| | 42 | 36 | 30 | 24 | 18 | 12 inch. |
| Each, | .50 | .45 | .40 | .35 | .30 | .25 |
7220. Hardwood Splines, Grooved 24 inch, .25 each. 36 inch, .30 each.
7230. Lead Weights, for Splines, with Metal Point (List Price, \$1.12) each, \$1.00
7240. Iron Weights, for Splines " .60

WOODEN ELLIPSES.



No. 7300.

7300. Hardwood Ellipses, 10 in set, from 1½ to 6 inchesset, \$2.00

ADJUSTABLE CURVE RULERS.



Same as No. 8760 (large).

This Rule consists of a band of thin, flexible steel, $\frac{3}{4}$ of an inch wide; this is attached to a bar of soft lead, which is covered by a long, spiral spring.

The Rule is bent to the required position, and the soft leaden bar prevents any springing back.

This size is nickel plated, and is adapted for railroad and ship building, and for long curves in general.

ADJUSTABLE CURVE RULER, Large.

Entire length and ruling edge, 30 inches. (List Price, \$3.25) each, \$2.87



Same as No. 8762 (small).

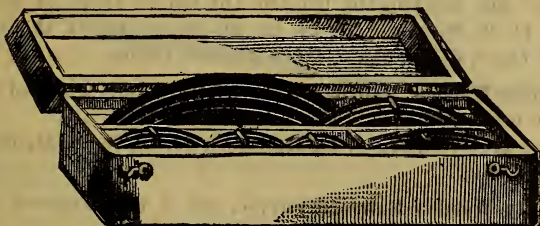
The basis of this Ruler is a bar of soft lead, which can easily be bent, and remains so. To improve the working of it, the lead is lined with two thin bands of steel, and the drawing edge covered with rubber, which is held in place by the small ribs.

ADJUSTABLE CURVE RULER, Small.

Entire length, 14½ inches; ruling edge, 10 inches .. (List Price, \$1 67) each, \$1.50

RAILROAD CURVES.

7400. **Hard Rubber Railroad Curves, Set of 102. With Tangent,** length of Curves from 7 to 21 inches. Finished on concave and convex side.
 Contents : 200, 197, 195, 193, 190, 187, 185, 183, 180, 177, 175, 173, 170, 167, 165, 163, 160, 157, 155, 153, 150, 147, 145, 143, 140, 137, 135, 133, 130, 127, 125, 123, 120, 117, 115, 113, 110, 107, 105, 103, 100, 97, 95, 93, 90, 88, 85, 83, 80, 78, 75, 73, 70, 67, 65, 63, 60, 57, 55, 53, 50, 48, 46, 45, 44, 42, 40, 38, 36, 35, 34, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4½, 4, 3½, 3 inch Radius....Complete, in Box (List Price, \$110.00) \$100.00



No. 7440.

7440. **Hard Rubber Railroad Curves, Set of 100.** Finished only on the convex side.
 Contents : 100, 99, 98, 97, 96, 95, 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81, 80, 79, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3½, 3, 2 inch Radius.....in Box, \$70.00

7450. **Hard Rubber Railroad Curves, Set of 43.** Finished only on the convex side.
 Contents : 200, 180, 160, 140, 130, 120, 110, 100, 90, 84, 78, 72, 66, 60, 54, 48, 42, 39, 36, 33, 30, 27, 24, 22, 20, 18, 16, 14, 12, 10, 9½, 9, 8½, 8, 7½, 7, 6½, 6, 5½, 5, 4½, 4, 3½ inch Radius.....in Box, 28.00

7460. **Hard Rubber Railroad Curves, Set of 17.** Finished only on the convex side.
 Contents : 60, 57, 54, 51, 48, 45, 42, 39, 36, 33, 30, 27, 24, 21, 18, 15, 12 inch Radius.....in Box, 13.25



No. 7470.

7470. **Hard Rubber Railroad Curves, Set of 10.** Finished only on the convex side.
 Contents : 120, 108, 96, 84, 72, 60, 48, 36, 24, 12 inch Radius....in Box, \$7.75

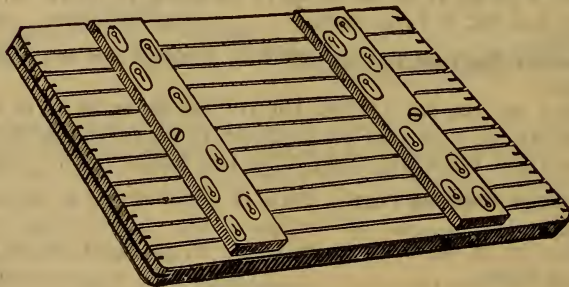
WOODEN RAILROAD CURVES.

7640. **Best Quality Wooden Railroad Curves, Set of 100.** Finished only on the convex side.
 Contents : 100, 99, 98, 97, 96, 95, 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81, 80, 79, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3½, 3, 2 inch Radius in Box, \$45.00
7650. **Best Quality Wooden Railroad Curves, Set of 43.** Finished only on the convex side.
 Contents : 200, 180, 160, 140, 130, 120, 110, 100, 90, 84, 78, 72, 66, 60, 54, 48, 42, 39, 36, 33, 30, 27, 24, 22, 20, 18, 16, 14, 12, 10, 9½, 9, 8½, 8, 7½, 7, 6½, 6, 5½, 5, 4½, 4, 3½ inch Radius in Box, 16 00
7660. **Best Quality Wooden Railroad Curves, Set of 17.** Finished only on the convex side.
 Contents : 60, 57, 54, 51, 48, 45, 42, 39, 36, 33, 30, 27, 24, 21, 18, 15, 12 inch Radius in Box, 7 50
7670. **Best Quality Wooden Railroad Curves, Set of 10.** Finished only on the convex side.
 Contents : 120, 108, 96, 84, 72, 60, 48, 36, 24, 12 inch Radius. in Box, 4.50
 And various other grades.

Curves of Metric and other measurements furnished at short notice.

DRAWING BOARDS.

Grooved Back.

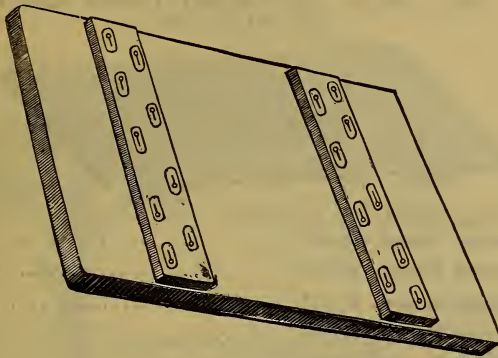


Nos. 7800-7812.

		Inches.	
7800. Grooved Back,	best quality, Antiquarian,	33×55.....	each, \$12.00
7804. Grooved Back,	“ “ Double Elephant,	31×42.....	“ 8.50
7808. Grooved Back,	“ “ Atlas,	27×34.....	“ 6.50
7812. Grooved Back,	“ “ Imperial,	23×31.....	“ 5.00

A glance at the illustration above will explain the good qualities of this style of board. The wood used is carefully selected pine, with hardwood cross-bars at back. To prevent the warping of the pine, the board is sawed half way through at about every two inches, and for the purpose of allowing the board to contract and expand, the cross-bars are not glued on, but fastened with screws, which run in oblong metal slots. At the ends, pieces of hardwood are inlaid, to give the T square a smooth working edge. They are also cut at every few inches, to allow for contraction and expansion of the board.

DRAWING BOARDS, WITH WALNUT CROSS BARS.

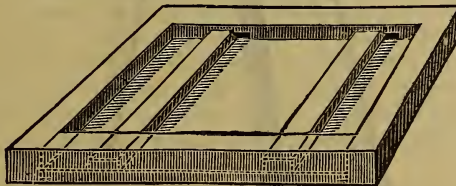


Nos. 7830-7896.

Nos. 7830 to 7896 are well made of narrow boards. The cross-bars are fastened with screws, running in brass slots to allow for contraction and expansion of the pine board.

	Inches.		
7830. Drawing Board,	Hardwood Cross Bars,	42×72	..... each, \$14.50
7834. Drawing Board,	“ “ “	42×60	..... “ 11.50
7838. Drawing Board,	“ “ “	42×48	..... “ 8.50
7860. Drawing Board,	“ “ “	36×72	..... “ 13.00
7864. Drawing Board,	“ “ “	36×60	..... “ 10.00
7868. Drawing Board,	“ “ “	36×54	..... “ 8.00
7872. Drawing Board,	“ “ “	36×48	..... “ 7.00
7876. Drawing Board,	“ “ “	36×42	..... “ 6.00
7880. Drawing Board,	“ “ “	31×42	..... “ 5.00
7884. Drawing Board,	“ “ “	27×34	..... “ 4.25
7888. Drawing Board,	“ “ “	23×31	..... “ 3.50
7892. Drawing Board,	“ “ “	20×26	..... “ 2.20
7896. Drawing Board,	“ “ “	16×21	..... “ 1.50

FRAMED DRAWING BOARDS.



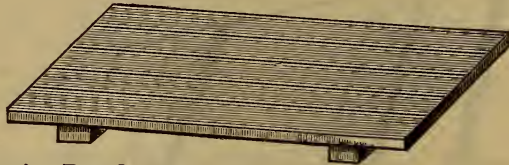
Nos. 7940-7952.

Framed Boards are used for stretching drawing paper. The inside cross pieces can easily be removed and the board taken out. A sheet of paper is wet and placed on the pine board; press the frame down; secure the cross pieces; allow the paper to dry and it is ready for use.

	Inches.	
7940. Framed Board,	18×26	..... each, \$4.00
7944. Framed Board,	16×21	..... “ 3.00
7948. Framed Board,	14×19	..... “ 2.50
7952. Framed Board,	11×17	..... “ 2.00

LIGHT DRAWING BOARDS.

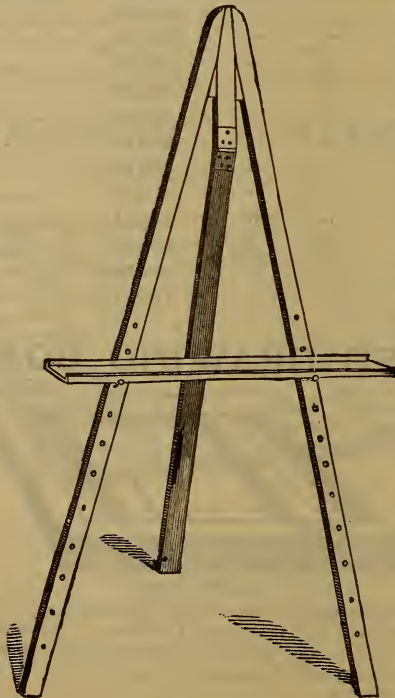
WELL MADE. FOR SCHOOL USE, PATENT OFFICE AND OTHER SMALL DRAWINGS, etc.



7966. Light Drawing Board, 27×34 inches.....	each,	\$2.75
7970. Light Drawing Board, 23×31.....	“	2.25
7974. Light Drawing Board, 20×26.....	“	1.75
7978. Light Drawing Board, 16×21.....	“	1.20
7982. Light Drawing Board, 14×18.....	“	1.10
7986. Light Drawing Board, 11×16.....	“	.85

HORSES OR TRESTLES for Drawing Boards.

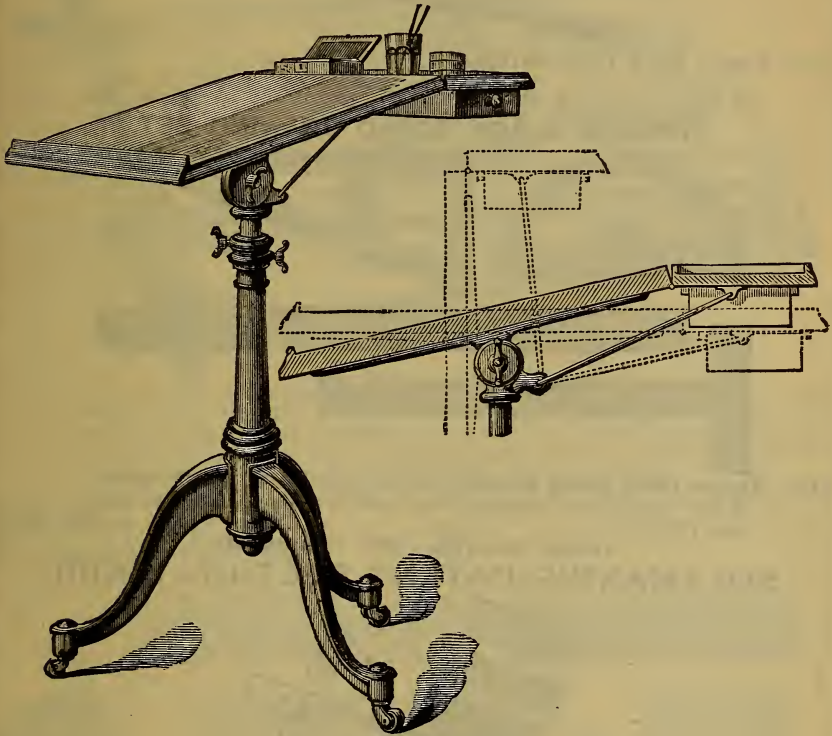
8000. Pair of Horses, 36 inches high.....pair, \$3.00



No. 8008. 8010.

8008. Walnut Folding Easel, 6 feet high, with shelf.....	each,	\$2.00
8010. Pine Folding Easel, 6 ‘ ‘ ‘ ‘	(List Price, \$1.12) ‘	1.00

ADJUSTABLE AND PORTABLE DRAWING TABLES.



No. 8020-8024.

This table can be fixed at any *required height*, so one can use it either sitting or standing; and by turning back the screw at the right, it is allowed to rotate, bringing *either side in front*. The shelf or ledge for instruments is attached to the reverse side of the table, so that it is *always level*, whatever inclination is given to the desk. This is very convenient for the water-cups, inkstands, etc. The second figure shows the table fixed at a slight inclination, the dotted lines showing it horizontal or vertical. When the table is nearly vertical the whole occupies but little space, and forms a perfect easel.

Under the instrument shelf are provided two drawers, one on each side, for working materials. The table and drawers are made of black walnut or other appropriate wood, nicely finished.

Cast iron is used for the tripod, hollow standard and sliding spindle, which are neatly painted and bronzed. The working parts are well finished, and very easily operated. The stand is sufficiently firm to hold a large drawing board. It can be raised to a level of 44 inches and lowered to 30 inches.

- 8020. Black Walnut Top, 22x26 inches, bronzed and ornamented stand, with shelf and two drawers, on castors each, \$15.50
- 8024. Black Walnut Top, 22x26, with shelf and two drawers, on castors. " 12.50
- 8028. Hard Wood Top, 22x24, with shelf, on castors..... " 10.00

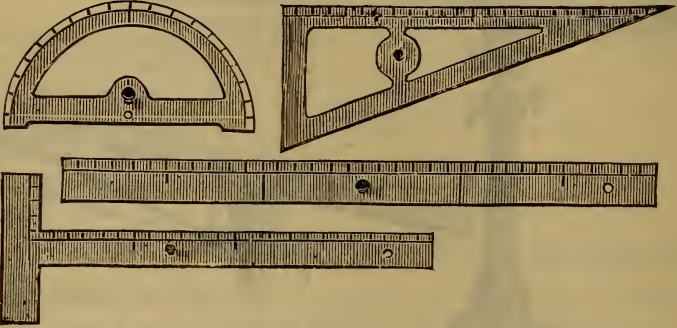
WOODEN BLACK BOARD DIVIDERS



8100. Wooden Black Board Dividers.

30	24	18	15 inch.
\$2.00	1.60	1.25	\$1.00 each.

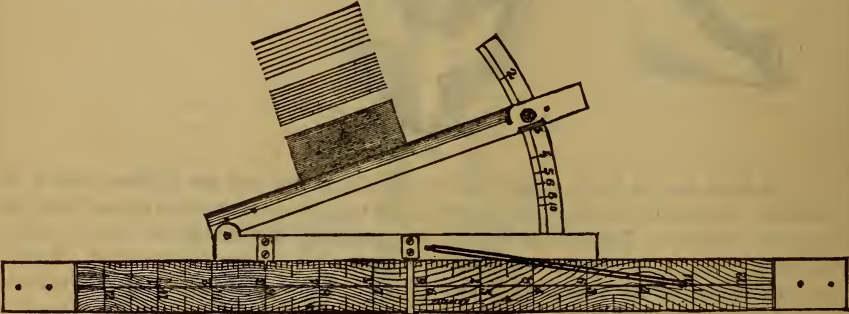
WOODEN BLACK BOARD DRAWING SET.



8120. Wooden Black Board Drawing Set, consisting of 24 inch T square, 36 inch straight edge, 24 inch triangle, all divided to inches, and 15 1/2 inch protractor set, \$5.00

Black Boards. See 19,500, etc.

SOLTMANN'S PATENT SECTION LINER.



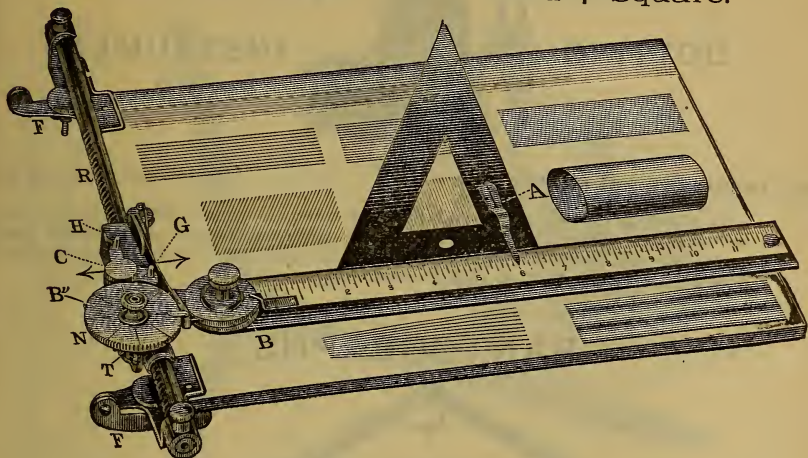
8300. Soltmann's Patent Section Liner, in Case. each, \$2.75

Consists of a rule deeply notched at every 1/8 inch on one and 1/10 inch on the other side, having brass ends with holes, to fasten the rule to the board with weights or tacks. The movable square is held to the rule by a metal arm; to produce uniform distances apart, the angle has a small conical shaped piece of metal which fits into the notches on the rule, and by the pressure of the finger remains until the line is drawn. A spring (not shown in cut) underneath the angle raises the latter out of the notch, and enables the draughtsman to move the angle back and forth without lifting it. The movable angle and the notched rule have each a small brass hook, to which a rubber band can be attached, which draws the angle towards the right. The metal arc holds the angle at any point by means of a thumb screw.

With this instrument very close shading and hatching can be quickly and correctly done. The arc contains lines, and the figures 2, 3, 4, 5, etc. When the angle is set to figure 2, the sections produced are 1/2 of the distance between the notches; if used on the 1/10 side, the hatching is 1/20 of an inch, and on the 1/8 side the result is 1/16 inch. Figure 3 reduces three times; figure 4 four times, etc.

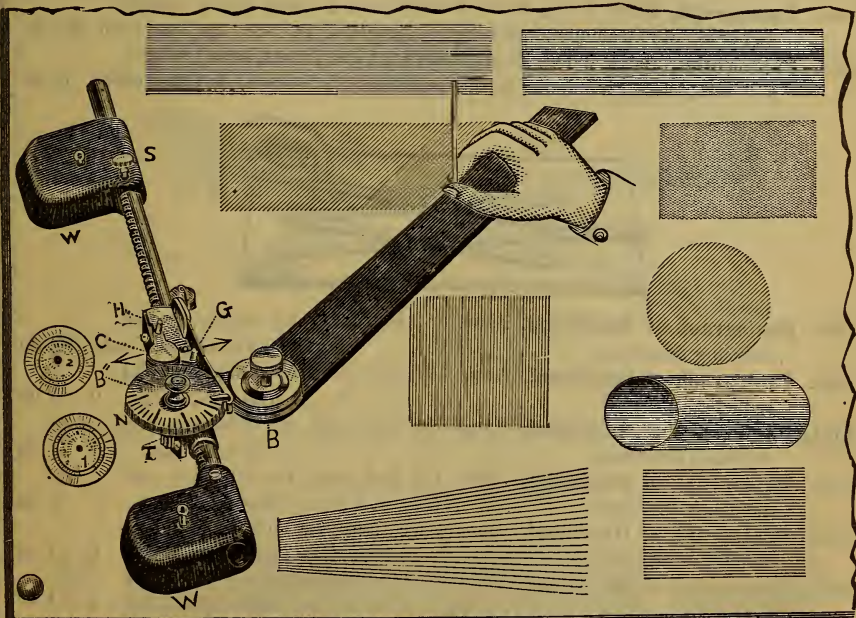
SECTION LINERS.

“Positive” Section Liner and T Square.



This instrument can be attached to a drawing board, by fastening the clamp screws. As the motion is produced by means of notched wheels, the movements are uniform. The ruler may be set at any angle. Printed round diagrams for various diameters are attached to the wheel B, with which cylinders can be shaded, by simply following the lines on the diagrams.

- 8310. Positive Section Liner, to fit Board 20×31 inches or less, in Case, each, \$15.00
- 8312. Positive Section Liner, “ “ 12×16 “ “ “ “ 12.00
- 8314. Positive Section Liner, “ “ 10×14 “ “ “ “ 10.00



- 8320. Positive Section Liner, with heavy weights to place on any part of the drawing without injuring it.....each, \$7.50

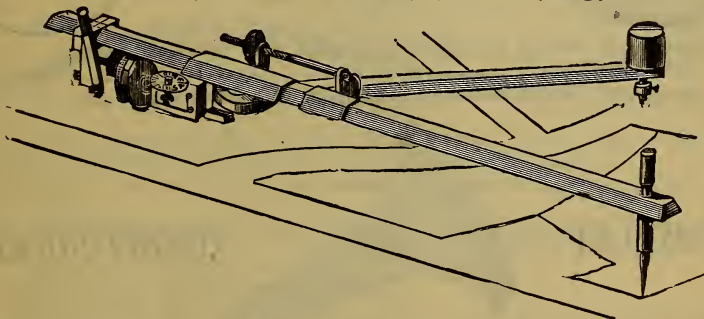
PERSPECTIVE LINEADS.



No. 8600-8608.

- 8600. Hardwood Lined, with Brass Screw, 36 inches pair, \$6.50
- 8604. Hardwood Lined, " " " 24 " " 5.00
- 8608. Hardwood Lined, " " " 18 " " 4.00

PLANIMETER,
FOR COMPUTING AREAS.



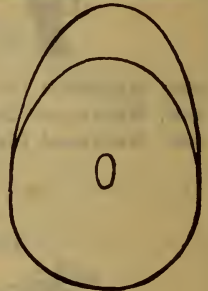
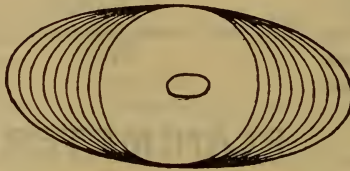
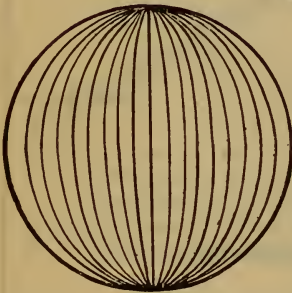
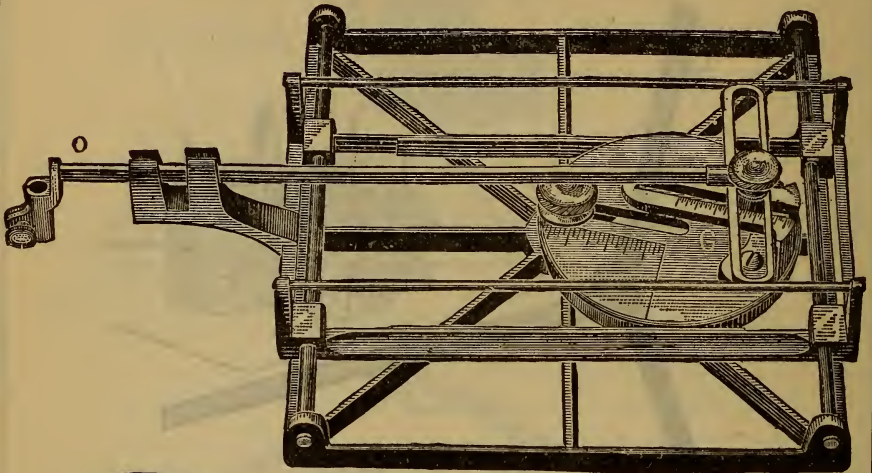
- 8650. Planimeter, Complete in Case, with directions for use..... each, \$30.00

ECCENTRO LINEAD.



- 8660. Eccentro Linead, Ebony, German Silver Mountings, for drawing eccentric lines, teeth of wheels, etc..... each, \$2.75

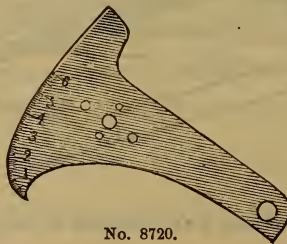
ELLIPSOGRAPH.



No. 8700. 8702.

- 8700. **Ellipsograph**, Strong and substantial make, with directions for use.
In Wooden Box.....each, \$7.90
- 8702. **Ellipsograph**, Strong and substantial make, with directions for use.. “ 6.65

TEMPLET

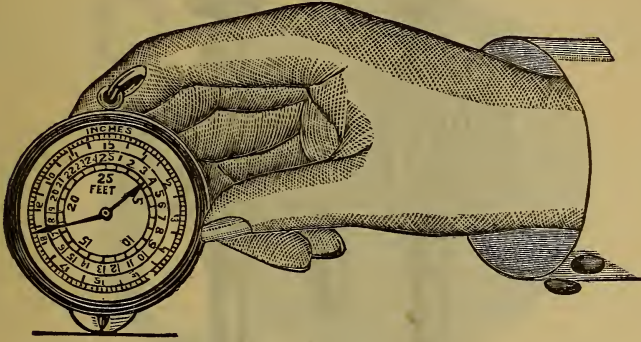


No. 8720.

ODONTOGRAPH.

- 8720. **Templet Odontograph**, with full description, for drawing teeth of Gear Wheels; useful for Machinists and general Mechanical Drawing..... In Case, each, \$3.50
- Illustrated Treatise on the Use of the Odontograph**, by Prof. S. W. Robinson..... “ .50
- 8728. **Willis' Odontograph, No. 1**, for drawing the teeth of small wheels by diametrical pitch, when only a single arc is required..... “ 2.75
- 8730. **Willis' Odontograph, No. 2**, for drawing the teeth of larger wheels by circular pitch, where it is necessary to have separate arcs for flanks and faces,—with drawings, and directions for use..... “ 4.45

MEASURING INSTRUMENT
AND WATCH CHARM



No. 8750. 8752.

- 8750. Measuring Instrument, in fine Morocco Case.....each, \$2.25
- 8752. Measuring Instrument..... “ 2.00

To measure, it is only necessary to move the instrument over the surface. The small dial registers the feet and the large one, the inches. When 25 feet have been traversed, the small hand has made a complete revolution, and begins the second one, etc. It is about the size of a small locket, and convenient to carry.

ADJUSTABLE CURVE RULERS.



No. 8760 (large).

This Rule consists of a band of thin, flexible steel, $\frac{3}{4}$ of an inch wide; this is attached to a bar of soft lead, which is covered by a long, spiral spring.

The Rule is bent to the required position, and the soft leaden bar prevents any springing back.

This size is nickel plated, and is adapted for railroad and ship building, and for long curves in general.

8760. ADJUSTABLE CURVE RULER, Large.

Entire length and ruling edge, 30 inches.....(List Price, \$3.25) each, \$2.87



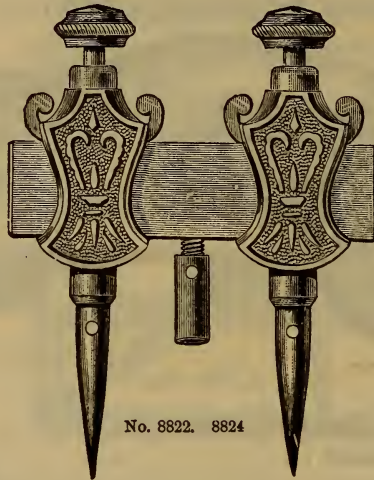
No. 8762 (small).

The basis of this Ruler is a bar of soft lead, which can easily be bent, and remains so. To improve the working of it, the lead is lined with two thin bands of steel, and the drawing edge covered with rubber, which is held in place by the small ribs.

8762. ADJUSTABLE CURVE RULER, Small.

Entire length, $14\frac{1}{2}$ inches; ruling edge, 10 inches ..(List Price, \$1.67) each, \$1.50

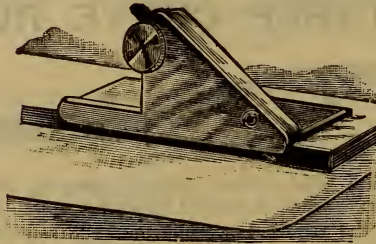
TRAMMEL HEADS.



No. 8822. 8824

8822. Trammel Heads, Bronzed, Medium size.....pair, \$2.00
 8824. Trammel Heads, “ Small “ “ 1.50

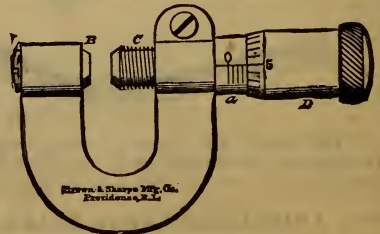
PAPER CUTTING INSTRUMENT.



No. 8830.

8830. Paper Cutting Instrument, for cutting stretched sheets of Drawing Paper from the board.....each, .50

DARLING, BROWN & SHARPE'S GOODS

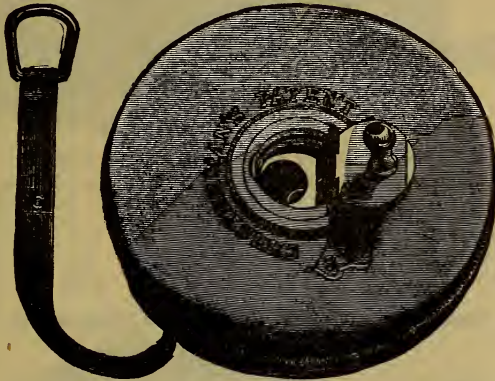


Darling, Brown & Sharpe Mfg. Co. Davidson, Pa.

(CATALOGUE MAILED ON APPLICATION.)

FURNISHED AT MANUFACTURER'S PRICES.

TAPES REPAIRED AT SHORT NOTICE.
MEASURING TAPES.



No. 8900.

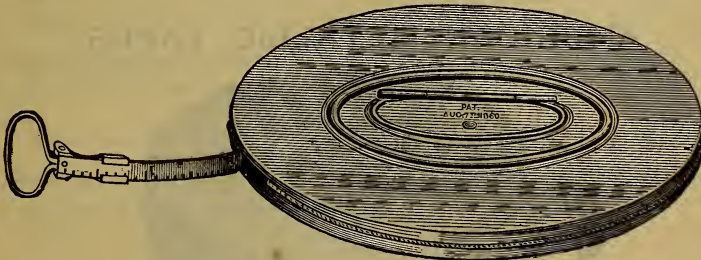
8900. **Chesterman's Steel Tapes, Leather Case, Flush Handle.**

Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot,	100	75	66	50	33	25 feet.
Each.....	\$15.00	12.00	10.00	8.00	6.25	5.50

8920. **Chesterman's Metallic Tapes, Leather Case, Folding Handle.**

Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot,	100	75	66	50	33	25 feet.
Each	\$4.75	3.75	3.30	3.00	2.35	2.00

PAINE'S PATENT STANDARD STEEL TAPES.



Nos. 8960-8980.

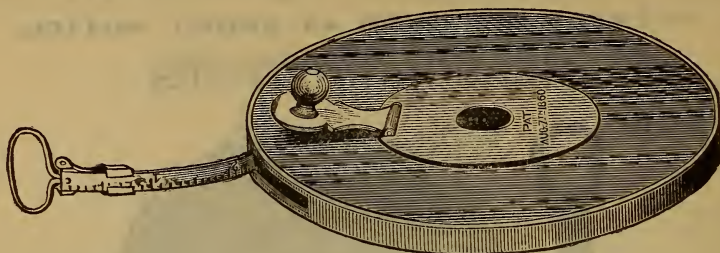
These tapes have been in the market for a number of years. The increased demand is the best evidence of their good qualities. The handles of all tapes (50 feet and over) are detachable; compensating, and other handles can be put on. The entire tape, if taken out of the case, by fastening an extra handle to the other end, can be used as a chain.

8960. **Paine's Steel Tapes, Leather Covered Case, Flush Handle**

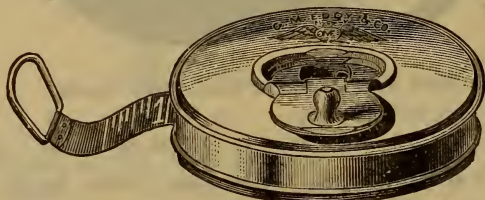
Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot . .	100	75	66	50	33 feet.
Each.....	\$15.00	12.00	10.00	8.00	5.50

8980. **Paine's Steel Tapes, Leather Covered Case, Flush Handle.**

Divided $\frac{1}{2}$ foot on one, and Metric on other side. . .	100	75	50 feet.
Each	\$18.00	14.25	9.50



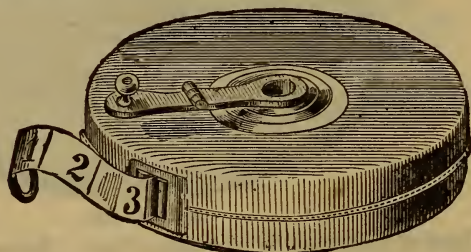
9000. Paine's Steel Tapes, Japanned Metal Case, Folding Handle.
- | | | | | | | |
|---|---------|-------|------|------|------|----------|
| Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot.. | 100 | 75 | 66 | 50 | 33 | 25 feet. |
| Each..... | \$12.00 | 10.00 | 8.00 | 6.00 | 4.50 | 3.50 |
9020. Paine's Steel Tapes, without Case.
- | | | | | |
|-------|---------|------|------|----------|
| Each, | 100 | 75 | 66 | 50 feet. |
| | \$10.00 | 7.50 | 6.60 | 5.00 |
9030. Graduated Compensating Handles, for various temperatures.....pair, \$3.35



9050. Case $2\frac{1}{4}$ inch diam.

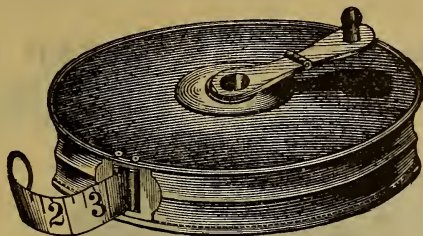
9050. Steel Nickel Plated Pocket Tapes, very light, Flush Handle, divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot, 25 feet long.....each, \$5.50
9060. Steel Nickel Plated Pocket Tapes, very light, Flush Handle, divided $\frac{1}{2}$ of foot on one, and Metric on other side, 25 feet long..... " 6.00

AMERICAN METALLIC TAPES.



No. 9080.

9080. Metallic Tapes, Red Leather Case, Wire Woven, Folding Handle.
- | | | | | |
|---|--------|------|------|----------|
| Divided $\frac{1}{2}$ or $\frac{1}{10}$ of a foot.... | 100 | 75 | 66 | 50 feet. |
| Each..... | \$4.45 | 3.50 | 3.00 | 2.75 |
9090. Metallic Tapes, Red Leather Case, Wire Woven, Folding Handle.
- | | | | |
|---|--------|------|----------|
| Divided $\frac{1}{2}$ of foot on one, and Metric on other side. | 100 | 75 | 50 feet. |
| Each..... | \$4.75 | 3.75 | 3.00 |
9110. Metallic Tapes, Wire Woven, without Case.
- | | | | |
|--|--------|------|----------|
| Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot..... | 100 | 75 | 50 feet. |
| Each..... | \$3.25 | 2.50 | 1 90 |



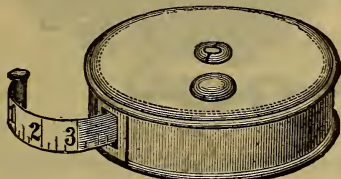
No. 9120.

9120. Corded Linen Tapes, in Patent Leather Case.

Divided $\frac{1}{2}$ of foot.....	100	75	50 feet.
Each.....	\$1.75	1.50	1.25

POCKET TAPES,

WITH SPRING AND STOP.



No. 9200. 9210.

9200. Steel Spring Pocket Tapes, in Nickel Plated Case.

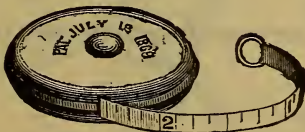
Divided $\frac{1}{2}$ or $\frac{1}{10}$ of foot.....	12	8	6	5	3 feet.
Each.....	\$3.50	2.50	2.00	1.80	1.50

9210. Steel Spring Pocket Tapes, in Nickel Plated Case.

Divided $\frac{1}{2}$ foot on one, and Metric on other side.	12	8	6	5	3 feet.
Each.....	\$3.75	2.75	2.25	2.00	1.65

9220. Linen Spring Pocket Tapes, in Nickel Plated Case (case like 9200).

Best Quality. Divided into inches.....	6	5	3 feet.
Each.....	\$1.25	1.10	.90

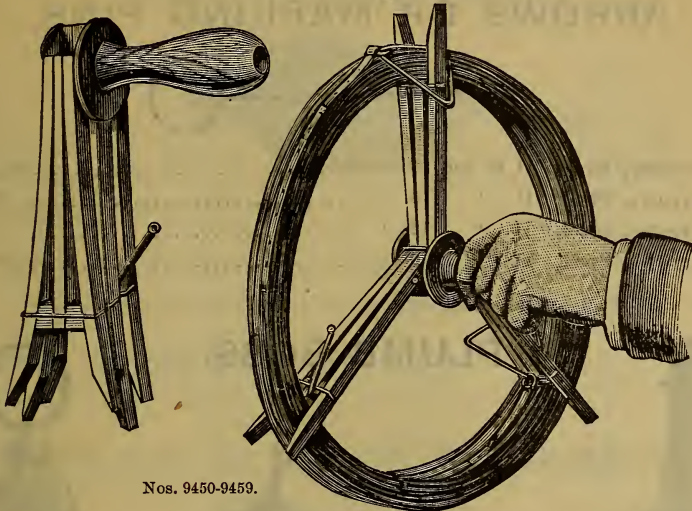


9230. Linen Spring Pocket Tapes, in Nickel Plated Case.

Divided into inches.....	6	5	3 feet.
Each.....	.70	.60	.50

OTHER TAPES AND GRADUATIONS FURNISHED AT SHORT NOTICE.

ROE'S IMPROVED STEEL TAPE CHAIN,
With Folding Reel.

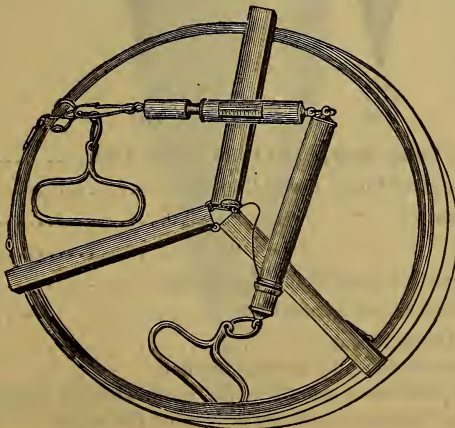


Nos. 9450-9459.

These tapes are made of spring steel about $\frac{1}{4}$ -inch wide. Each consecutive foot has a brass rivet, and every five and ten feet have large plates with figures stamped thereon. For country and field work the tapes have given excellent satisfaction. They can be dragged through woodland, brush, etc., without catching or kinking, and as they are nickel-plated (mat finish) they do not rust, and require no oiling or cleaning after being used.

- | | | | |
|-------|---|----------------------|--------|
| 9450. | Roe's Improved Tape Chain, NICKEL-PLATED, 100 feet long, graduated every foot, end feet in tenths. | (List Price, \$7.78) | \$7.00 |
| 9453. | Roe's Improved Tape Chain, NICKEL-PLATED, 66 feet long, graduated every link | (List Price, \$7.22) | 6.50 |
| 9456. | Roe's Improved Tape Chain, NICKEL-PLATED, 50 feet long, graduated every foot, end feet in tenths. | (List Price, \$6.12) | 5.50 |
| 9459. | Roe's Improved Tape Chain, NICKEL-PLATED, 33 feet long, graduated every foot, end feet in tenths. | (List Price, \$4.45) | 4.00 |
- Meter and Vara Tapes furnished at short notice.

SPRING BALANCE TAPE CHAINS.



9465. Spring Balance Tape Chain, 50 feet long, $\frac{3}{32}$ inch wide, with Spirit Level, Thermometer, Spring Balance and Brass Handles. They are extensively used for accurate measurements in large cities. each, \$20.00

IRON PLUMB BOBS.



No. 9584.

9584. **Iron**, for Builders and general use.....each .75

BRAIDED LINEN PLUMB BOB LINE.

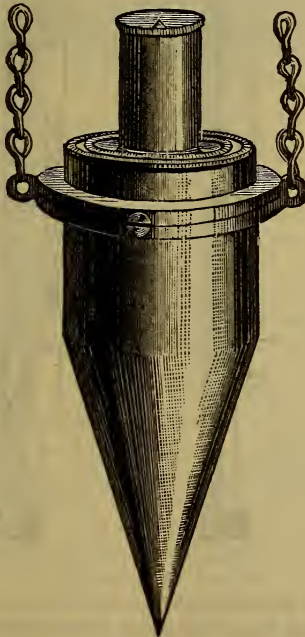
With this line, the Bob will become stationary sooner than with ordinary cord.

9600. **Braided Plumb Bob Line**, Block containing 50 feeteach, .80
 Coil of 10 yards..... “ .50

MINING LAMP OR PLUMMET.

Made of Brass.

The upper part is hollow, and contains an oil lamp. When lowered into a dark shaft, the sight is taken to the centre of the light.



9620. **Mining Lamp and Plummet.**
 Two Lamps packed in strong Box, with Strapcase, \$25.00
 9624. **Mining Lamp and Plummet.**
 In Boxeach, 13.00

LEVELING RODS AND POLES.



No. 9700.



9710.



9720.

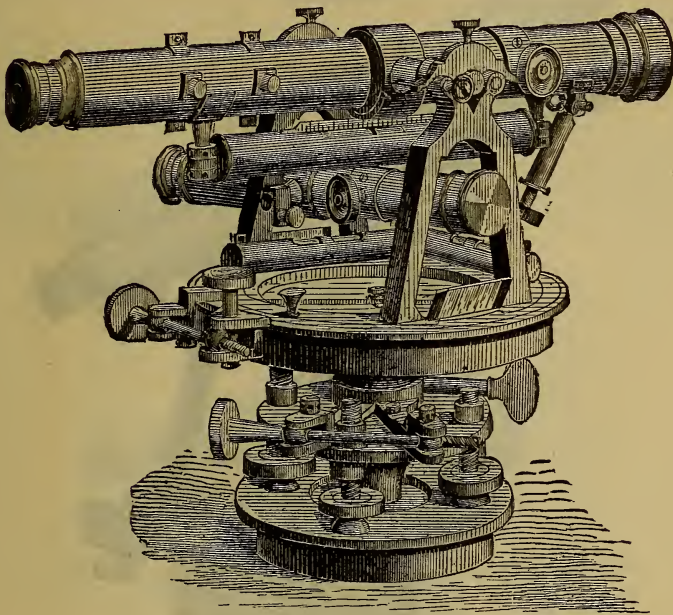


9760.

- 9700. New York Leveling Rod, Hardwood, with Target.....each, \$16.00
- 9710. Philadelphia Leveling Rod, Mahogany, White Face, Self Reading. " 18.00
- 9720. Boston Leveling Rod, Mahogany, with Target " 16.00
- 9760. Leveling, or Flag Poles, each foot painted alternately red and white.

	10	8	6	5 feet.
Each,	\$3.50	3.00	2.50	2.25

SURVEYING INSTRUMENTS.



9800. Improved City Transit or Theodolite, with Right Angle Telescope.

Powerful Telescope 12 inches long, magnifying power 20 to 22 times, $4\frac{1}{2}$ inch needle, long sensitive ground Bubble under telescope with tangent screw, adjustable brace attached to object end of telescope, 7 inch horizontal limb, reversible axis, divided on silver to 20 minutes with double vernier reading to 20 seconds. The standards are not as high as those of other transits, which greatly adds to the steadiness of the instrument. Complete, in Mahogany Case, with Strap, including Plumb Bob, Magnifying Glass, Adjusting Pins, etc., and Tripod..... each, \$325.00

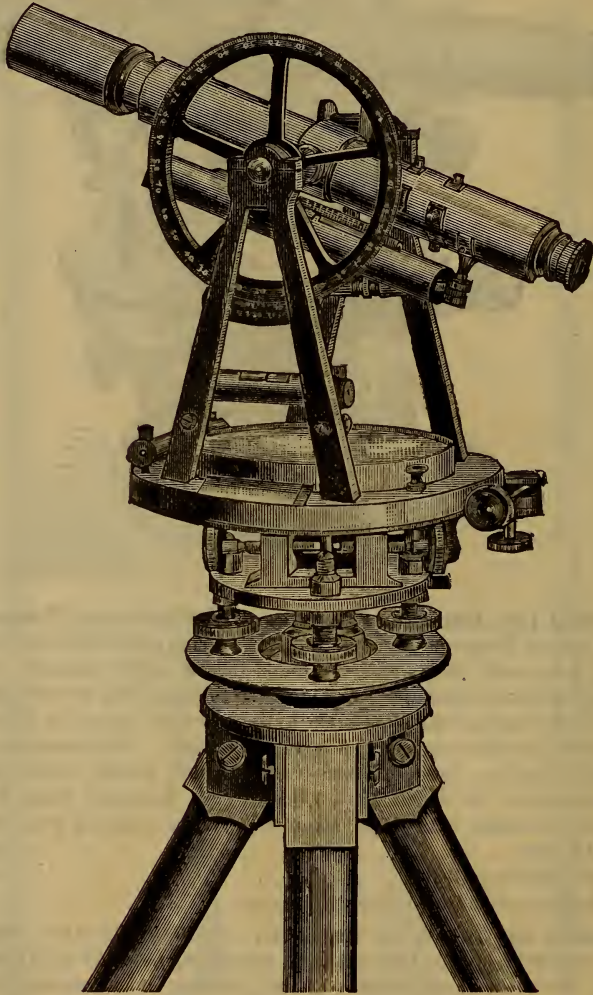
With Shifting Centre extra, 10.00
 Reflecting Shades for mining purposes..... “ 8.00

9805. Improved City Transit or Theodolite. (Style similar to No. 9800.)

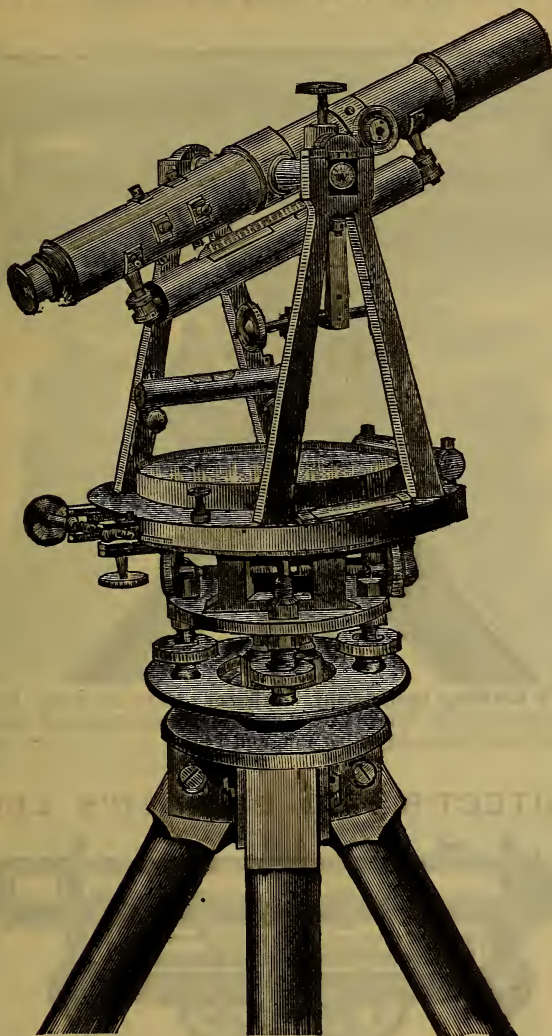
Powerful telescope 12 inches long, magnifying power 20 to 22 times, $4\frac{1}{2}$ inch needle, long sensitive ground Bubble under telescope with tangent screw, adjustable brace attached to object end of telescope, 7 inch horizontal limb, reversible axis, divided on silver to 20 minutes, with double vernier reading to 20 seconds. The standards are not so high as those of other transits, which greatly adds to the steadiness of the instrument. Complete, in Mahogany Case, with Strap, including Plumb Bob, Magnifying Glass, Adjusting Pins, etc., and Tripod each, \$275.00

With Shifting Centre extra, 10.00
 Reflecting Shades for mining purposes..... “ 8.00

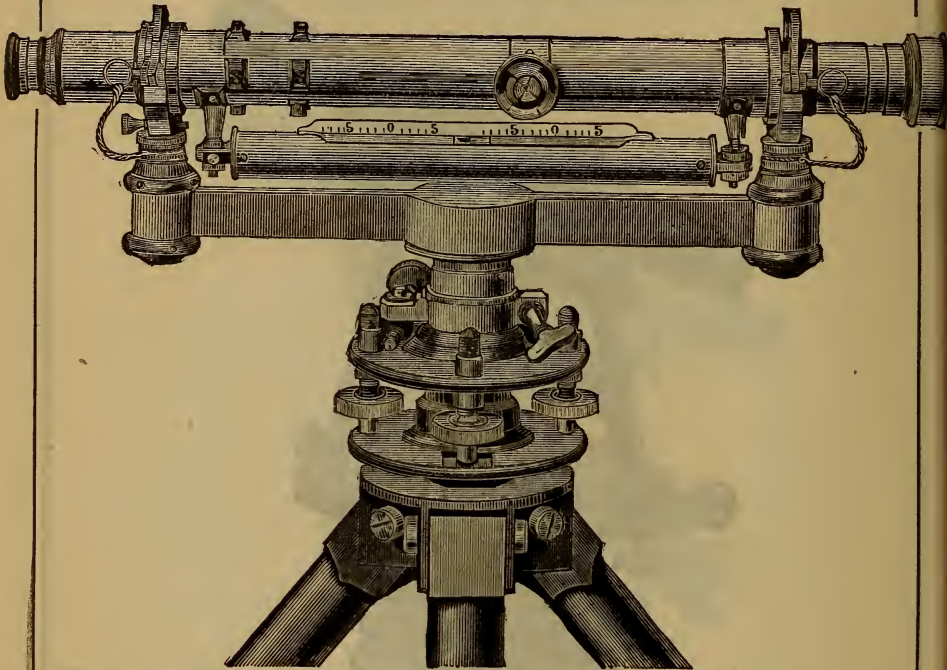
SURVEYING INSTRUMENTS,

Continued.

9810. **Engineer's or Surveyor's Transit**, Telescope 11 to 12 inches long, magnifying power 18 times, horizontal limb 6 inch diameter, divided to 20 minutes, double vernier reading to 30 seconds, $4\frac{1}{2}$ inch needle, long sensitive level to telescope with clamp and tangent attachment, 5 inch vertical circle reading to 1 minute. Complete in Mahogany Box, with Strap, including Plumb Bob, Magnifying Glass, Adjusting Pins, etc., and Tripod.....each, \$230.00
 Shifting Centre.....extra, 10.00

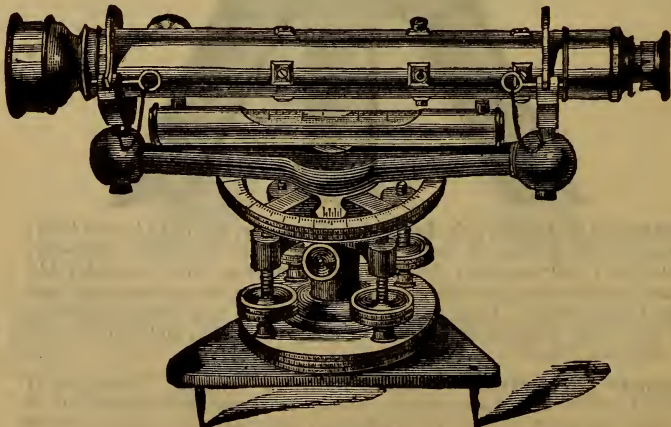
SURVEYING INSTRUMENTS (*continued*).

9814. **Engineer's or Surveyor's Transit.** Telescope, 11 to 12 inches long; magnifying power, 18 times; horizontal limb, 6 inches diameter, divided to 20 minutes; double vernier, reading to 30 seconds; $4\frac{1}{2}$ inch needle; long, sensitive level to telescope, with clamp and tangent attachment. Complete in Mahogany Box, with Strap, including Plumb Bob, Magnifying Glass, Adjusting Pins, etc., and Tripod . . . each, \$210.00
Shifting Centre extra, 10.00
9818. **Engineer's or Surveyor's Plain or Railroad Transit.** Telescope, 11 to 12 inches long; magnifying, power 18 times; horizontal limb 6 inches diameter, divided to 20 minutes; double vernier, reading to 30 seconds; $4\frac{1}{2}$ inch needle. Complete in Mahogany Box, with Strap, including Plumb Bob, Magnifying Glass, Adjusting Pins, etc., and Tripod each, \$185.00
Shifting Centre extra, 10.00

SURVEYING INSTRUMENTS *(continued)*.

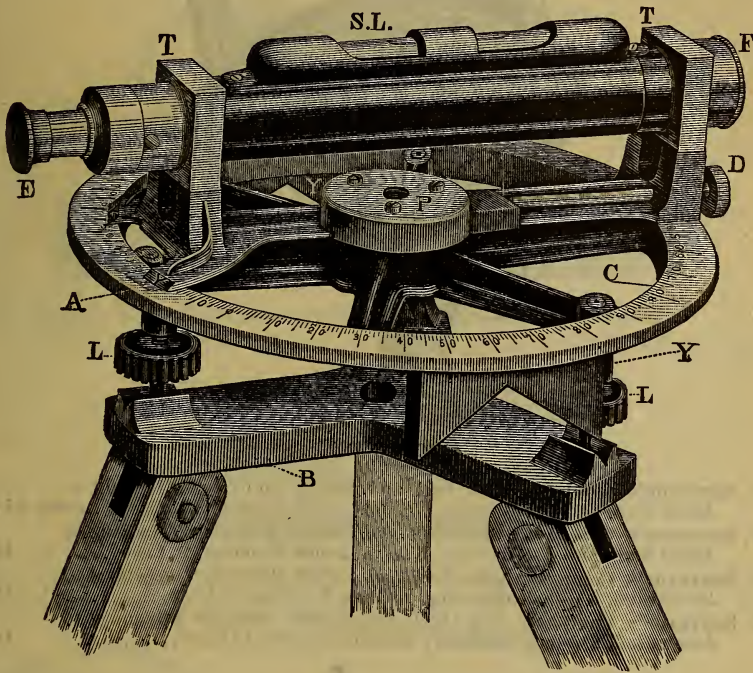
9824. **Engineer's Leveling Instrument.** Telescope 18 to 20 inches long, magnifying power 22 times. Complete, in Mahogany Box, with Strap, including Sun Shade, Adjusting Pin, and Tripod each, \$130.00

ARCHITECT'S AND BUILDER'S LEVEL.



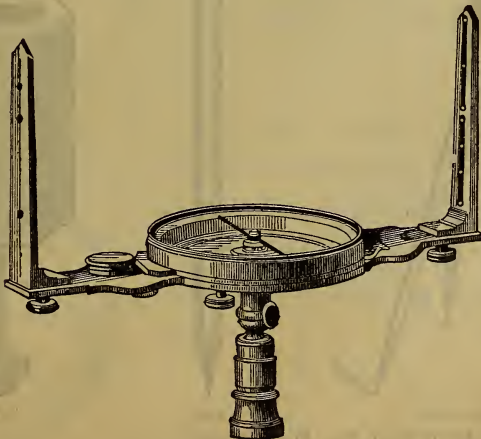
9830. **Architect's and Builder's Level, with divided Circle.** This instrument is light in weight and convenient in shape for easy transportation. The construction is on the principle of a regular surveying instrument. Complete, in Box, including Plumb Bob and Tripod . . each, \$45.00

BUILDER'S LEVEL.



9840. **Builder's Level**, very strong construction, with large divided circle. A servicable instrument for general use. Complete, in Wooden Box, including Plumb Bob and Tripod.....each, \$38.00

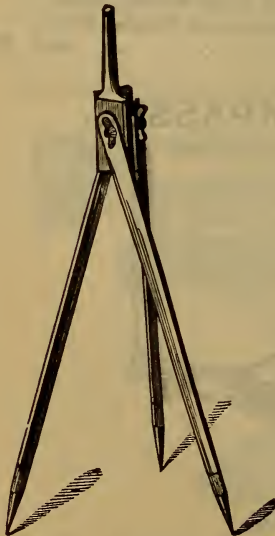
SURVEYORS' COMPASSES.



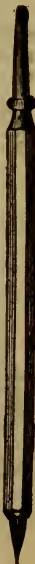
9900. **Surveyor's Compass**, with double Sights, two Bubbles, Ball and Socket Joint, with Jacob Staff Mountings, 5-inch Needle, in Case.....each, \$35.00



- 9920. Surveyor's Compass, with Ball and Socket Joint for attaching to Jacob Staff, and two Bubbles, Needle 4-inch diameter, in Case...each, \$17.00
- 9924. Surveyor's Compass, with Ball and Socket Joint for attaching to Jacob Staff, and two Bubbles, Needle 3-inch diameter, in Case..... " 14.50
- 9928. Surveyor's Compass, with Ball and Socket Joint for attaching to Jacob Staff, 3½-inch diameter, without Bubbles, in Case..... " 13.75
- 9932. Surveyor's Compass, with Ball and Socket Joint for attaching to Jacob Staff, 2½-inch diameter, without Bubbles, in Case..... " 11.50



No. 9950.



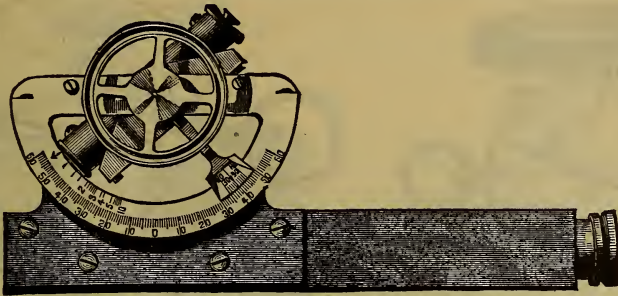
9960.



9970.

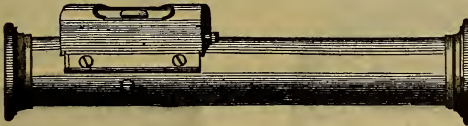
- 9950. Tripod, with Jacob Staff Top, for Compasses.....each, \$3.00
- 9960. Jacob Staff, with metal foot..... " 1.00
- 9970. Surveyor's Cross, for Jacob Staff, in Case..... " 3.00

ABNEY'S HAND LEVEL AND CLINOMETER.



10,000. Abney's Reflecting Hand Level and Clinometer, with divided arc to show angles..... In Case, each, \$15.00

LOCKE'S HAND LEVELS.



10,020. Locke's Hand Level, with Reflector, White Metal..... In Case, \$10.00
 10,040. Locke's Hand Level, with Reflector, Brass " 9.00
 These are also made in cheaper grades.

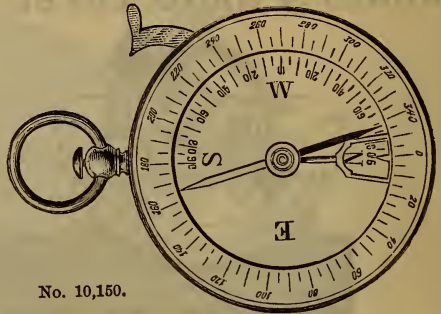
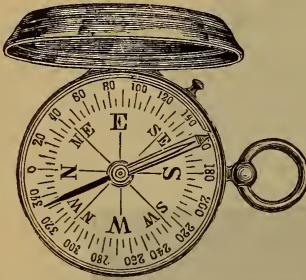
MINER'S DIPPING NEEDLE AND COMPASS.



For tracing iron ore. Consists of a needle mounted in a metal ring, graduated to degrees, and having glass on top and bottom. When used for tracing ore, the prospector should hold the ring, and keep the needle pointing north and south.

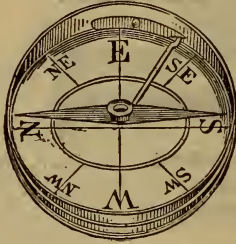
10,100. Miner's Dipping Needle. Complete, with Stop In Case, each, \$12.00

POCKET COMPASSES.

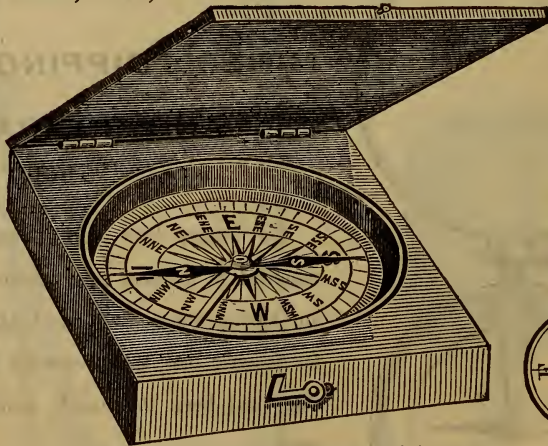


No. 10,150.

- 10,120. Compass, Gilt, Hunting Case Watch Pattern, with Stop, Metal Dial, Jeweled Centre, 2 inches..... each, \$6.50
- 10,140. Compass, Nickel Plated, Hunting Case Watch Pattern, with Stop, Metal Dial, Jeweled Centre, 1¾ inches..... “ 3.75
- 10,150. Compass, with Clinometer and Pendulum, 2½ inches..... “ 5.50

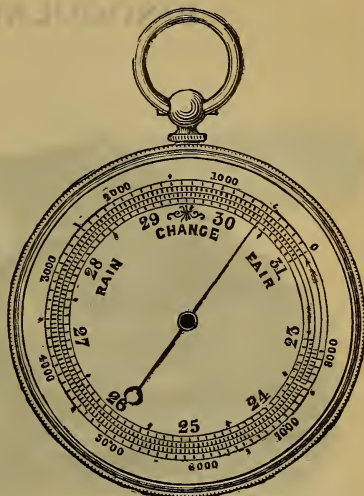


- 10,160. Compass, Round, Brass, Slip Cover, Stop, Jeweled Centre, 2 inch, each, \$2.25
- 10,162. Compass, Round, Brass, “ “ “ “ 1½ “ “ 1.75



- 10,180. Compass, Square, Mahogany Case, with Stop and Cover..... each, \$1.00
- 10,200. Compass, Watch Pattern, Brass, Jeweled Centre, 2 inch..... “ 1.25
- 10,202. Compass, Watch Pattern, Brass, “ “ 1½ inch..... “ 1.00
- 10,220. Compass, Watch Pattern, Brass, 2 inch..... “ .80
- 10,222. Compass, Watch Pattern, Brass, 1½ inch..... “ .60
- 10,260. Compass, Round, Brass, 2 inch..... “ .60
- 10,262. Compass, Round, Brass, 1½ inch..... “ .30

ANEROID BAROMETERS.



No. 10,350.

On account of its extreme sensitiveness, the slightest variations in gradients, levels, etc., are easily ascertained, and therefore this instrument is adapted for general mining and surveying. By a new arrangement, the scale of altitude can be subdivided by a vernier. The barometrical scale of inches has been made progressive so as to give the correct relative readings with the scale of altitudes.

For mining purposes the entire circle of the dial is graduated to represent 6 inches of the mercurial column, *i. e.*, from 27 inches to 33. This scale will register about 2,000 feet below sea-level to 4,000 feet above; the finest divisions, $\frac{1}{100}$ ths of the altitude scale, represent 10 feet measurements, which can be again subdivided by the vernier scale to single feet. The vernier scale is moved by a rack-work adjustment, and a magnifying lens which rotates on the outer circumference of the instrument facilitates the reading of minute quantities.

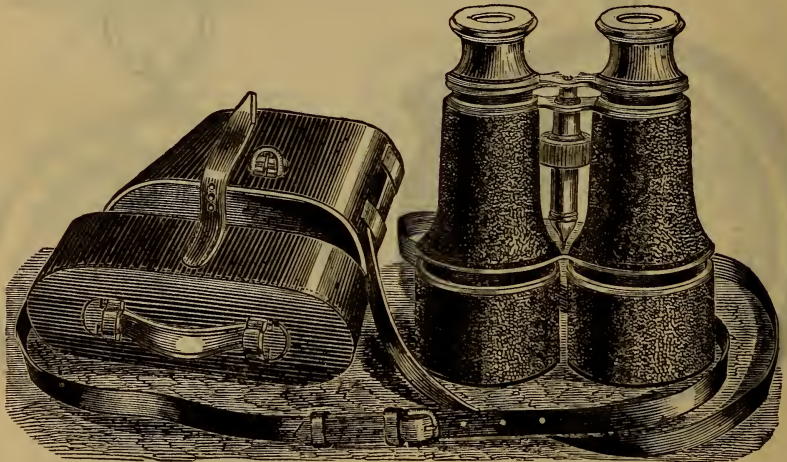
For surface surveying purposes only, not to be used below sea-level, the instrument is made with the scale divided from 25 to 31 inches, thus giving an altitude scale of 6,000 feet above sea-level only, and with this open scale and the assistance of the vernier, the same minute readings can be easily taken.

The instruments are also constructed for measuring greater altitudes, *i. e.*, 10,000, 15,000, or 20,000 feet, but with these scales the measurements cannot be made quite so minute as in the more open scales.

- 10,350. Mining and Surveying Aneroid Barometer, 5 inch diameter, silvered dial, raised rings for divisions, altitude 2,000 feet below and 4,000 feet above sea-level, with rack vernier scale reading to 1 foot and magnifying lens, in Leather Case.....each, \$50.00
- 10,380. Pocket Mountain Aneroid, 2½ inch, compensated for temperature, with ring altitude scale, 15,000 feet, in Case..... “ 24.00
- 10,400. Pocket Mountain Aneroid, 2 inch, with ring altitude scale 8,000 feet, in Case..... “ 16.00
- 10,421. Pocket Mountain Aneroid, 1¾ inches, metal case, altitude 8,000 feet, in Case..... “ 13.00

And various other sizes and styles.

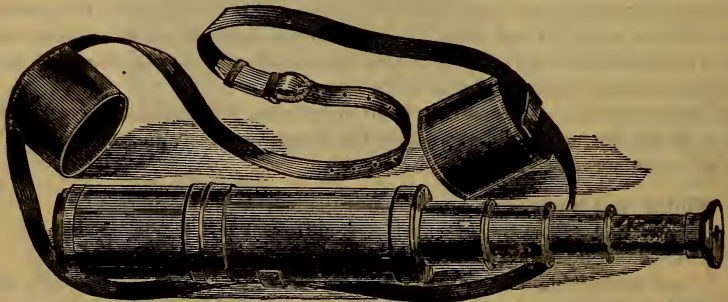
FIELD AND MARINE GLASSES AND BINOCULAR TELESCOPES.



- 10,500. **Field and Marine Glasses**, Bronzed and covered with Leather, Sun Shade extending over Object Glasses, in strong Leather Case with straps each, \$33.00
- 10,510. **Field and Marine Glasses**, with revolving eye-pieces. Suitable for Field, Marine or Theatre purposes. Bronzed and covered with Leather, in Case " 24.00
- 10,540. **Binocular Telescopes**, Bronzed and covered with Morocco, with jointed body, to adjust to distance between eyes, Sun Shade, in strong Leather Case, adapted for military and naval service..... " 42.00

TELESCOPES,

IN LEATHER-COVERED BODY.

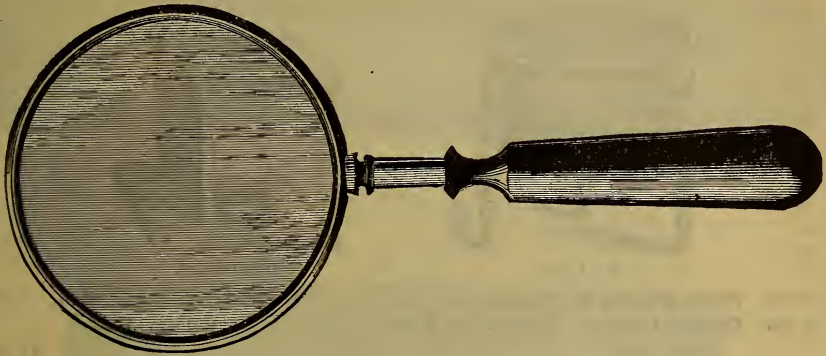


- 10,600. **Telescope in Leather Covered Body**, with strap and caps, opens to 33 inches, closes to 11 inches. Power, 35 times..... each, \$26.00
- 10,620. **Telescope in Leather Covered Body**, with straps and caps, opens to 17 inches, closes to 6 inches. Power, 20 times " 11.00

TRIPOD FOR TELESCOPES.

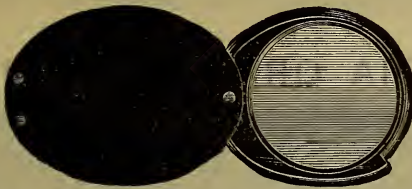
- 10,640. **Tripod for Telescopes**..... " 5.00

MAGNIFYING GLASSES.

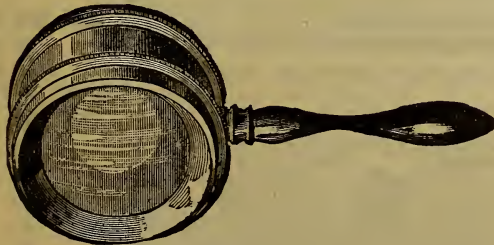


10,700. Reading Glasses, German Silver Ring, Ebony Handle, Best Quality.

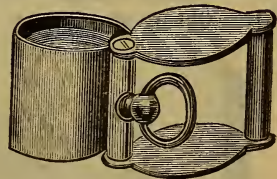
	5	4½	4	3½	3	2½	2	1½-inch.
Each,	\$5.00	4.00	3.50	3.00	2.50	1.75	1.00	.75



- 10,730. Oval Pocket Magnifying Glasses, Rubber Case, 2 inch, 2 Lenses, each, \$2.20
- 10,734. Oval Pocket Magnifying Glasses, " 1½ " 2 " " 1.50
- 10,738. Oval Pocket Magnifying Glasses, " 1¼ " 2 " " 1.00
- 10,742. Oval Pocket Magnifying Glasses, " 1 " 2 " " .70
- 10,750. Oval Pocket Magnifying Glasses, " 2 " 1 Lense, " 1.12
- 10,754. Oval Pocket Magnifying Glasses, " 1½ " 1 " " .60
- 10,758. Oval Pocket Magnifying Glasses, " 1¼ " 1 " " .50
- 10,762. Oval Pocket Magnifying Glasses, " 1 " 1 " " .35



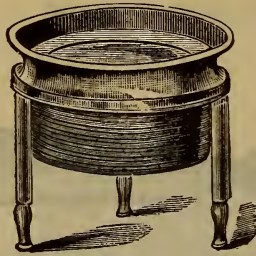
No. 10,850.



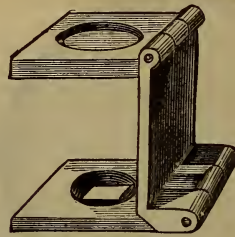
10,860.

- 10,850. Coddington Magnifier, with Handle, 1½ inch, \$3.25 ; 1 incheach, \$2.00
- 10,860. Coddington Magnifier, in Plated Folding Case with Ring,
1½ inch, \$3.75 ; 1 inch..... " 2.75
- 10,870. Coddington Magnifier, with twisted handle, White Metal, ½ inch. " 1.50

MAGNIFYING GLASSES (continued).



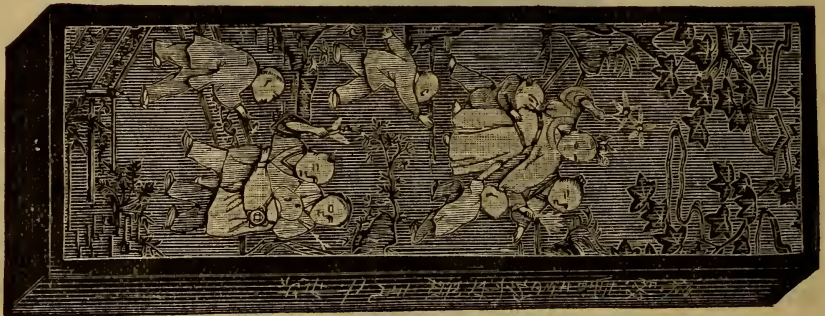
No. 10,875.



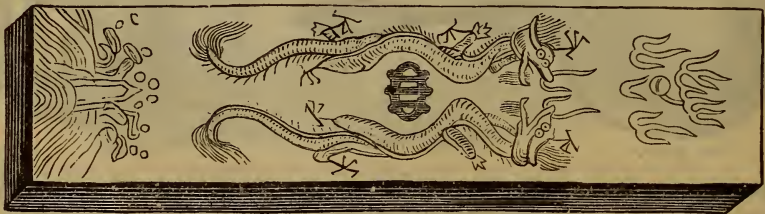
10,880-10,888.

- | | | |
|---|-------|--------|
| 10,875. Three Legged Microscope, adjustable to Focus, Brass..... | each, | .75 |
| 10,880. Thread Counter, Brass, for Linen, Cotton, Silk, Burlap, etc.,
Extra Large..... | “ | \$2.00 |
| 10,884. Thread Counter, Brass, for Linen, Cotton, Silk, Burlap, etc.,
Medium..... | “ | 1.25 |
| 10,888. Thread Counter, Brass, for Linen, Cotton, Silk, Burlap, etc.,
Small..... | “ | 50 |

INDIA OR CHINESE INK.



- | | | |
|--|-------|---------|
| 11,150. Oblong Black, 4 inch, ornamental figures..... | each, | \$10.00 |
| 11,160. Oblong Black, 4 “ black and gilt figures..... | “ | 7 00 |
| 11,170. Oblong Black, 4 “ various black lettering and figures..... | “ | 5.00 |



No. 11,180. 11,184.

- | | | |
|--|-------|--------|
| 11,180. “Double Golden Dragon,” Fine Gilt..... | each, | \$5.00 |
| 11,184. “Double Golden Dragon,” Second Grade Gilt..... | “ | 2.00 |

INDIA OR CHINESE INK (continued).



No. 11,190.

- 11,190. Hexagon, Soft and Black, $4\frac{1}{2}$ inches.....each, \$3.00
- 11,194. Hexagon, “ “ 2 “ very small, extra quality..... “ 1.00
- 11,198. Hexagon, “ “ $1\frac{1}{2}$ “ Miniature, “ “ “ .60



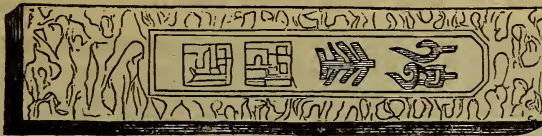
No. 11,210.

- 11,210. “CHINESE VASE,” Oblong Black, $3\frac{1}{2}$ inch.....each, \$3.00



No. 11,220.

- 11,220. “GOLDEN STORK,” $2\frac{7}{8}$ inch, Gilt, Extra Quality..... each, \$3.00



No. 11,230.

- 11,230. Oblong Gilt, $2\frac{7}{8}$ inch, Fine Quality..... each, \$2.25
- 11,234. Oblong Gilt, $2\frac{7}{8}$ “ Second Grade “ 1.50



No. 11,240.

- 11,240. OBLONG BLACK, with Pearl, $2\frac{7}{8}$ inch, Fine Quality..... each, \$2.25

INDIA OR CHINESE INK (continued).



No. 11,250.

11,250. OBLONG POLISHED, Large, $3\frac{3}{8}$ inch..... (List Price, \$1.67)..each, \$1.50



No. 11,254.

11,254. OBLONG POLISHED, Small, $2\frac{7}{8}$ inch.....(List Price, \$.85)..each, \$.75



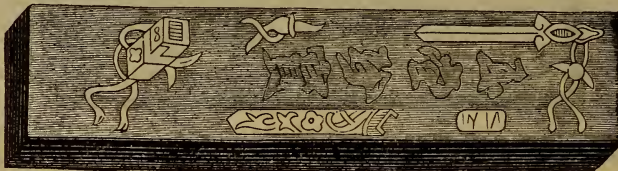
No. 11,260.

11,260. "ELEPHANT" INK, Large, Oblong Black.....each, \$1.75



No. 11,264.

11,264. "ELEPHANT" INK, Small, Oblong Black....(List Price, \$1.12)..each, \$1 00



No. 11,280.

11,280. Gilt "Sword" Ink, $3\frac{1}{8}$ inch, Oblong, Black, with figures..... each, \$1 50



11,290. Single Dragon, $2\frac{5}{8}$ inch, Black, Gilt Figures, extra quality.....each, \$1.50

11,294. Single Dragon, $2\frac{5}{8}$ " all Gilt, second grade..... " .60

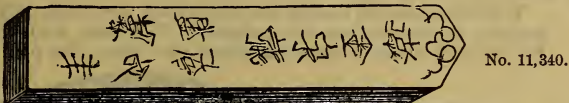
INDIA OR CHINESE INK (continued).



11,320. Lion Head, Black, Oval, Polished, 3 inch.....each, .50



11,330. Square, Black, Gilt Figures, 2 1/8 inch.....each, .50



11,340. Pointed, Gilt, 2 1/4 inch, with Figureseach, .40



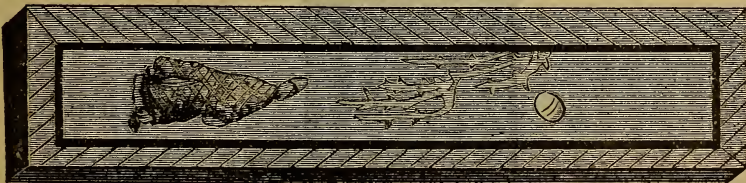
11,350. Lion Head, Black, Oval, Polished, 2 1/2 inch.....each, .25



11,400.	BLUE CHINESE INK	.....(List Price, \$.85)..	each,	.75
11,404.	RED	“ “ “ “ “ “ “ “	“ “ “ “	.75
11,408.	BROWN	“ “ “ “ “ “ “ “	“ “ “ “	.75
11,412.	YELLOW	“ “ “ “ “ “ “ “	“ “ “ “	.75
11,416.	GREEN	“ “ “ “ “ “ “ “	“ “ “ “	.75
11,420.	WHITE	“ “ “ “ “ “ “ “	“ “ “ “	.75

JAPANESE INK.

The Japanese Inks are not always made of the same patterns, which are varied from time to time by the makers.



Japanese Ink is harder than the Chinese. For this reason a line drawn with it can be washed over with color, without blurring.

11,450.	Oblong, Black, Best Quality, Large	.....each,	\$3.00
11,454.	Oblong, Black, Best Quality, Medium	“ “	2.00
11,458.	Oblong, Black, Best Quality, Small	“ “	1.00

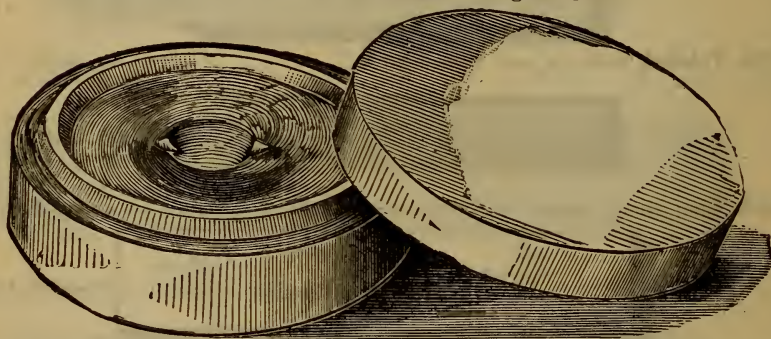
MANY OTHER GRADES KEPT IN STOCK.

INK AND COLOR SLABS.

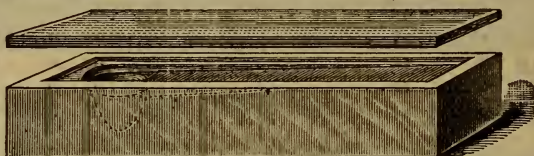


- 11,500. Slate Ink Stone, 5 inch, with heavy glass cover.....each, .75
- 11,504. Slate Ink Stone, 3½ “ “ “ “ “ .50

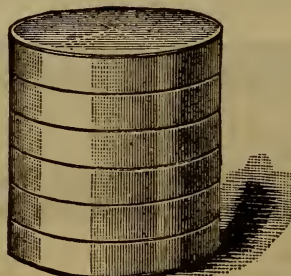
With these stones the ink can be quickly and uniformly ground. The slate surface is smooth, but not polished. The deep well in the centre gathers the ink and makes it more convenient for filling the pen.



- 11,510. Round White Glass Ink Slab, with cover.....each, .50



- 11,520. Patent Ink Slab, with cover, 2½×5½ inches.....each, .60
- 11,522. Patent Ink Slab, with cover, 1¾×4½ “ “ .50



Nos 11,540-11,546.

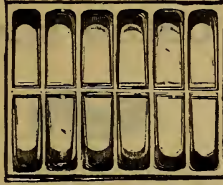
- 11,540. Nests of Cabinet Saucers, 3¾ inches, 6 in Nest.....each, \$1.00
- 11,542. Nests of Cabinet Saucers, 3¼ “ “ 6 “ “ .80
- 11,544. Nests of Cabinet Saucers, 2¾ “ “ 6 “ “ .70
- 11,546. Nests of Cabinet Saucers, 2¾ “ “ 6 “ “ .60

INK AND COLOR

SLABS (continued).



No. 11,566.

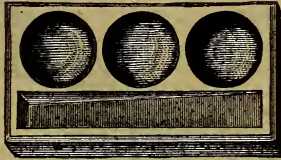


11,560.



11,572.

11,560. Slanting Tiles, 12 divisions, 6 × 7 ⁵ / ₈ inches.....	each, \$1.20
11,562. Slanting Tiles, 10 " 6 × 7 ⁵ / ₈ "	" 1.00
11,564. Slanting Tiles, 8 " 6 × 7 ⁵ / ₈ "	" .70
11,566. Slanting Tiles, 6 " 3 ¹ / ₈ × 7 ³ / ₄ "	" .55
11,568. Slanting Tiles, 5 " 3 ¹ / ₈ × 7 ³ / ₄ "	" .45
11,570. Slanting Tiles, 4 " 3 ¹ / ₈ × 7 ³ / ₄ "	" .35
11,572. Slanting Tiles, 3 " 2 ¹ / ₂ × 4 "	" .20



11,590. Ink or Color Slab, 3 Wells and Slant, 3 × 4 ¹ / ₂ inches	each, .35
11,592. Ink or Color Slab, 3 " " 2 ³ / ₄ × 4 ¹ / ₄ "	" .30
11,594. Ink or Color Slab, 3 " " 2 ³ / ₈ × 3 ⁵ / ₈ "	" .25
11,596. Ink or Color Slab, 3 " " 1 ¹ / ₂ × 2 ³ / ₄ "	" .15



No. 11,610.

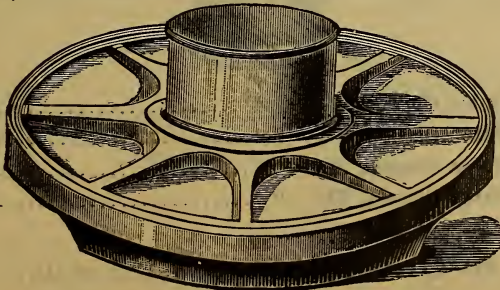


No. 11,614.

11,610. Ink or Color Slab, 5 Wells and 5 Slants, 4 × 7 ⁵ / ₈ inches.....	each, .70
11,614. Ink or Color Slab, 3 " 3 " 2 ¹ / ₂ × 4 "	" 25



11,620. Box Slab, 5 divisions, 2 ³ / ₈ × 6 inches.....	each, .35
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11,630. Architect's Slant and Basin, 8 divisions, and Cup.....	each, \$1.35
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INK AND COLOR SLABS (continued).

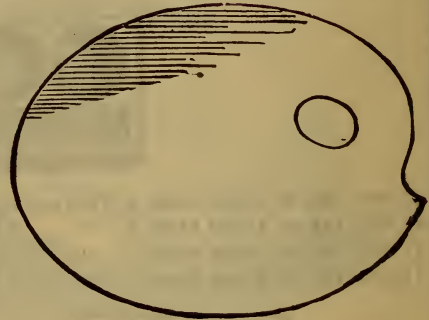
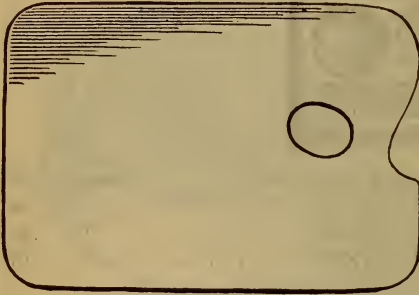


11,640. China Color Cups.							
	3½	3	2½	2	1¾	1½	inch.
Each,	.22	.18	.14	.10	.07	.05	

11,660. Deep China Cups, with Cover.							
Each,		.25 large.		.22 medium.		.18 small.	



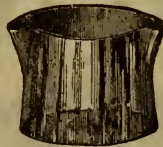
11,670. China Brush Rest.....	each,	.15
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11,680. China Palettes, Oblong or Oval.							
	10	9	8	7	6	5	4 inch.
Each,	.70	.60	.50	.40	.35	.30	.25

WATER GLASSES,

With Lips, to Clean and Dry Brushes.



11,690. Artists' Water Glasses, 4¼ inches.....	.....	each,	.45
11,692. Artists' Water Glasses, 3¾ " .....	.....	"	.35
11,694. Artists' Water Glasses, 3¼ " .....	.....	"	.25
11,696. Artists' Water Glasses, 2¾ " .....	.....	"	.15

SPONGE CUPS. (See No. 19,440.)

Other China Ware furnished at short notice.

TESTIMONIALS.

The following Testimonials are furnished by the manufacturers of Turck's Inks, and published with their permission:

CHICAGO, March 2d, 1885.

We, the architects of the City of Chicago, use Turck's Diamond Drafting Inks and Colors, and recommend their use to the Architectural Profession:

W. W. BOYNTON,
HENRY LORD GAY,
J. M. VAN OSDELL & CO.
E. BAUMAN,
EDBROOK & BURNHAM,

WHEELOCK CLAY,
A. M. F. COLTON,
BURNHAM & ROOT,
ADLER & SULLIVAN,
JOHN C. COCHRAN,

JAMES J. EGAN,
BAUER & HILL,
TREAT & FOLLZ,
L. B. DIXON,
(And many others).

Office of the City Civil Engineer, }
CLEVELAND, Oct. 2d, 1883. }

F. B. TURCK, Esq.

Dear Sir: I am very much pleased with your Waterproof Drafting Ink and Colors; they are the finest and best materials for drafting and coloring that I have ever used.

Yours truly,

B. F. MORSE,
City Civil Engineer.

Messrs. F. B. TURCK & Co.

Gentlemen: I like your Drafting Ink. I have used your brand "8B" some time, and like it the best of any India Ink I have tried. You may use this letter as a recommendation.

Very respectfully yours,

THOMAS DREW STETSON,
Patent Solicitor and Mechanical Expert, New York.

Office of J. B. LEGG, Architect,
St. Louis, July 15th, 1884.

F. B. TURCK, Esq.

Dear Sir: I have been using Turck's Drafting Inks in my business, and I am pleased to state that I find them fully satisfactory in every particular.—they being entirely waterproof, of deep brilliant colors, and flow smooth and evenly, and besides they are always ready for use, save much time, and are far cheaper than cakes.

Respectfully,

J. B. LEGG.

St. Louis, July 9th, 1884.

FENTON B. TURCK, Esq.

Dear Sir: We use your Drafting Inks and Colors in preference to any in the market. Your inks and colors being ready for use, and waterproof, are superior for making finer work and saving time.

Respectfully yours,

GEO. J. BARNETT & SON.

Office of E. E. MYERS, Architect,
DETROIT, MICH., Aug. 1st, 1883.

F. B. TURCK, Esq.

Dear Sir: We have been using your Drafting Inks and Colors, which excel all others for drafting purposes. This is a boon to the profession.

Very truly yours,

E. E. MYERS.

Office of JAMES FRERET, Architect,
NEW ORLEANS, LA., April 14th, 1884.

F. B. TURCK, Esq.

Dear Sir: We use your Waterproof Liquid Indian Ink, and find it very convenient as being ready liquid and waterproof—allowing the colors being run over the lines without spreading.

Yours truly,

JAS. FRERET.

See Testimonials on previous page.

CABINET
OF
TURCK'S DRAFTING INKS.



The above cut represents the style of Cabinet, No. 11,820. Price \$10.00.

SOLD AT MANUFACTURER'S PRICES.

- 11,820. Cabinet No. 5 (see Illustration), containing one Extra Large Bottle each: Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Burnt Sienna, for Coloring, and Not Indelible "8B" Black, for Tracing Cloth and for general use..... each, \$10.00

SEPARATE BOTTLES OF INKS OF ABOVE SIZE.

- 11,832. Indelible Black, Not Indelible "8B" Black, for Tracing Cloth and for general use, extra large size each bottle, 2.00
 11,833. Indelible Carmine, Indelible Blue, extra large size " " 1.75
 11,834. Indelible Green, Indelible Yellow, Indelible Orange, Not Indelible Burnt Sienna, for Coloring, extra large size each bottle, 1.50

For other sizes, see next page.

“CRYSTALLINE” INK,

FOR WRITING AND DRAWING ON BLUE PRINTS.



This Ink contains no acid injurious to steel pens; it has the consistency of India Ink, and flows evenly.

11,815. “Crystalline” Ink, White or Red.

Neat, Polished Partitioned Box, containing 12 bottles, each, \$1.90

Neat, Polished Partitioned Box, containing 6 bottles, each, 1.00

Bottle (List Price, 17c.) .15

TURCK'S DIAMOND DRAFTING INKS.

SOLD AT MANUFACTURER'S PRICES.

STRONG PARTITIONED CABINETS covered with LEATHER.

- 11,820. Cabinet No. 5, containing one Extra Large Bottle each: Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Bt. Sienna for coloring, and Not Indelible “8B” Black for Tracing Cloth and general use each, \$10.00
- 11,823. Cabinet No. 2, containing one Medium-size Bottle each: Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Bt. Sienna for Coloring, and Not Indelible “8B” Black for Tracing Cloth and for general use . “ 4.00
- 11,824. Cabinet No. 1, containing one small Bottle each: Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Bt. Sienna for Coloring, and Not Indelible “8B” Black for Tracing Cloth and for general use.. “ 2.50

SEPARATE BOTTLES OF TURCK'S INKS.

- 11,830. Indelible Black, Mammoth size.....each Bottle, \$3.50
- 11,832. Indelible Black, Not Indelible “8B” Black for Tracing Cloth and for general use, extra large size..... “ 2.00
- 11,833. Indelible Carmine, Indelible Blue, extra large size..... “ 1.75
- 11,834. Indelible Green, Indelible Yellow, Indelible Orange, Not Indelible Burnt Sienna, extra large size..... “ 1.50
- 11,836. Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Burnt Sienna for coloring, Not Indelible “8B” Black for Tracing Cloth and for general use, medium size..... “ .50
- 11,838. Indelible Black, Indelible Carmine, Indelible Blue, Indelible Green, Indelible Yellow, Indelible Orange. Not Indelible Burnt Sienna for coloring, Not Indelible “8B” Black for Tracing Cloth and general use, small size..... “ .25

FRENCH INDELIBLE BLACK DRAWING INK.

- 11,846. French Indel. Black, Package cont'g 1 doz. bottles. (List Price, \$3.60) 3.00
Bottle..... (“ “ .30) .25

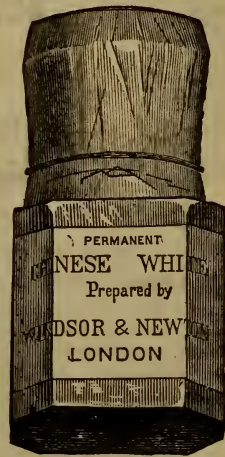
HIGGINS'S LIQUID DRAWING INKS.

11,850. Higgins's Drawing Inks, Waterproof, and General. Box of
 1 doz.....\$3.00. Bottle, .25

WINSOR & NEWTON'S LIQUID COLORS.



No. 11,870.



11,872

11,860.	Winsor & Newton's	Liquid Carmine.....	each,	.40
11,862.	“	“ Liquid Indelible Brown Ink.....	“	.40
11,864.	“	“ Liquid Prout's Brown.....	“	.40
11,866.	“	“ Liquid Sepia.....	“	.40
11,868.	“	“ Liquid Gold Ink.....	“	.40
11,869.	“	“ Liquid Silver Ink.....	“	.40
11,870.	“	“ Liquid Indian Ink.....	“	.35
11,872.	“	“ Liquid Chinese White.....	“	.35
11,874.	“	“ Liquid Prussian Blue.....	“	.35
11,876.	“	“ Liquid Oxgall.....	“	.35
11,880.	“	“ Liquid Water Color Megilp.....	“	.35
11,882.	“	“ Liquid Water Mat Gold Size.....	“	.35
11,884.	“	“ Liquid Gum Water.....	“	.35
11,886.	“	“ Pots of Oxgall.....	“	.25
11,888.	Schoenfeld's	Liquid Chinese White.....	“	.35
11,892.	Rowney's	Liquid Chinese White.....	“	.35
11,896.	“Imperial”	Liquid Chinese White.....	“	.30

E. G. SOLTSMANN.

No. 11900.

"VICTOR"

(Registered Trade Mark.)

LIQUID INDELIBLE BLACK

DRAWING INK.



FULL SIZE OF WIDE NECK BOTTLE.

A line drawn with this Ink will not blur when washed over with water color or water.

Neat, polished, partitioned box, containing 1 dozen bottles.....	\$3.00
“ “ “ “ “ 4 bottles	1.00
Bottle .....	.25

E. G. SOLTSMANN.

No. 12250.

"FLORENCE"
MOIST WATER COLORS.

FOR DETAILS, TRACING CLOTH, ETC.

IN GLASS JARS, WITH METAL SCREW CAPS.



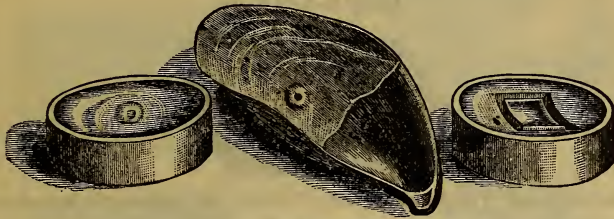
FULL SIZE OF DOUBLE JAR.



FULL SIZE OF SINGLE JAR.

- | | | | |
|---|--|----------------|------------|
| 300. Antwerp Blue | 322. Ivory Black | } Double Jars, | |
| 307. Burnt Sienna | 325. Light Red | | Each, 40c. |
| 308. Burnt Umber | 332. Prussian Blue | } Single Jars, | |
| 309. Chinese White | 335. Raw Umber | | Each, 22c. |
| 310. Chrome Yellow | 342. Vandyke Brown | | |
| 314. Emerald Green | 343. Venetian Red | | |
| 319. Indian Red | 346. Yellow Ochre. | | |
| 363. Scarlet Lake.....Single Jars, each, 40c. | 369. Cobalt Blue.....Single Jars, each, 60c. | | |
| 380. Cadmium Yellow | 382. French Blue | } Single Jars, | |
| 381. Carmine | 391. Rose Madder | | Each, 80c. |

GOLD AND SILVER SHELLS, CUPS, etc.



No. 11,930-11,940.

11,944. 11,948.

11,920. 11,924.

11,920. Gold Cakes.....	each,	\$2.00
11,924. Silver Cakes.....	“	.50
11,930. Gold Cups, 1¾ inch diameter.....	“	.50
11,932. Gold Cups, 1¼ “ “.....	“	.25
11,934. Gold Cups, 1 “ “.....	“	.15
11,940. Silver Cups, 1¼ “ “.....	“	.15
11,944. Gold Shells.....	“	.20
11,948. Silver Shells.....	“	.10

GOLD AND SILVER PAINT.

11,956. Williams' Liquid Gold Paint, Box containing Gold Paint, Brush, and Directions for Use.....	each,	\$1.00
11,960. Williams' Liquid Silver Paint, Box containing Silver Paint, Brush, and Directions for Use.....	“	.75
11,964. Ruby's Royal Gilding, Box containing Gilding, Brush, and Directions for Use.....	“	.50



MARSCHING'S
FRENCH GOLD PAINT
FOR ALL ORNAMENTAL GILDING
AND.
DECORATIVE PURPOSES.

11,970. Marsching's Gold Paint and Liquid.....	Set of 2 Bottles,	.75
11,974. “ Gold Paint, without Liquid.....	Bottle,	.50
11,976. “ Silver Paint, “ “.....	“	.50
11,978. “ Liquid for Gold or Silver Paint.....	“	.25
11,982. “ Gold Paint and Liquid, small outfit in Box.....	each,	.50
11,986. “ Silver Paint and Liquid, small outfit in box.....	“	.50

WINSOR & NEWTON'S WATER COLORS.



Whole Cake.



Whole Pan.



Half Cake.



Half Pan.

COLORS MARKED * ARE NOT MADE MOIST.

Colors can be ordered by their numbers.

Price List arranged according to Grades.

			Whole Cake or Pan.	Half Cake or Pan.		
12,300.	100. Antwerp Blue	116. Gamboge	}			
	101. Bistre	117. Hooker's Green, No. 1			.25	15
	102. Blue Black	118. Hooker's Green, No. 2				
	103. *British Ink	119. Indian Red				
	104. *Bronze	120. Indigo				
	105. Brown Ochre	121. Italian Pink				
	106. Brown Pink	122. Ivory Black				
	107. Burnt Sienna	123. *King's Yellow				
	108. Burnt Umber	124. Lamp Black				
	109. Chinese White	125. Light Red				
	110. Chrome Yellow	126. Naples Yellow				
	111. Cologne Earth	127. Neutral Tint				
	112. Deep Chrome	128. New Blue				
	113. *Dragon's Blood	129. Olive Green				
	114. Emerald Green					
115. *Flake White						
12,301.	151. *Black Lead	156. Crimson Lake	}	.45		
	152. Brown Madder	157. Mars Yellow			.25	
	153. Cerulean Blue	158. Neutral Orange				
	154. *Chalons Brown	159. Purple Lake				
	155. *Constant White	160. Roman Sepia				
12,302.	169. Cobalt Blue	171. Lemon Yellow	}	.65		
	170. Indian Yellow	172. Orange Vermilion			.35	
	177. Aureolin	183. Gallstone				
12,303.	178. Burnt Carmine	184. Green Oxide of Chromium	}	.90		
	179. Cadmium Orange	185. Indian Purple			.45	
	180. Cadmium Yellow	186. Intense Blue				
	181. Carmine	187. Mars Orange				
	182. French Blue					
	188. Pale Cadmium Yellow					
12,304.	194. *Field's Orange Vermilion	195. *MadderCarmine	}	\$1.40		
	196. Purple Madder	197. Smalt.			.70	
	198. Ultramarine Ash					

PRICE LIST OF COLORS ALPHABETICALLY ARRANGED, see page 154.

PRICE LIST OF COLORS ARRANGED ACCORDING TO TINTS, see page 155.

WINSOR & NEWTON'S WATER COLORS.

ALPHABETICALLY ARRANGED

TO FACILITATE FINDING PRICE OF ANY COLOR WITHOUT KNOWING ITS GRADE.

COLORS MARKED * ARE NOT MADE MOIST.

Colors can be ordered by their numbers.

No.	Whole Cake or Pan.	Half Cake or Pan.	No.	Whole Cake or Pan.	Half Cake or Pan.
100. Antwerp Blue.....	.25	.15	124. Lamp Black.....	.25	.15
177. Aureolin.....	.90	.45	171. Lemon Yellow.....	.65	.35
101. Bistre.....	.25	.15	125. Light Red.....	.25	.15
151. *Black Lead.....	.45	.25	195. *Madder Carmine.....	1.40	.70
102. Blue Black.....	.25	.15	187. Mars Orange.....	.90	.45
103. *British Ink.....	.25	.15	157. Mars Yellow.....	.45	.25
104. *Bronze.....	.25	.15	126. Naples Yellow.....	.25	.15
152. Brown Madder.....	.45	.25	158. Neutral Orange.....	.45	.25
105. Brown Ochre.....	.25	.15	127. Neutral Tint.....	.25	.15
106. Brown Pink.....	.25	.15	128. New Blue.....	.25	.15
178. Burnt Carmine.....	.90	.45	129. Olive Green.....	.25	.15
107. Burnt Sienna.....	.25	.15	130. Orange Chrome.....	.25	.15
108. Burnt Umber.....	.25	.15	172. Orange Vermilion.....	.65	.35
179. Cadmium Orange.....	.90	.45	188. Pale Cadmium Yellow.....	.90	.45
180. Cadmium Yellow.....	.90	.45	131. Payne's Grey.....	.25	.15
181. Carmine.....	.90	.45	189. Pink Madder.....	.90	.45
153. Cerulean Blue.....	.45	.25	132. Prussian Blue.....	.25	.15
154. *Chalons Brown.....	.45	.25	133. Prussian Green.....	.25	.15
109. Chinese White.....	.25	.15	190. Pure Scarlet.....	.90	.45
110. Chrome Yellow.....	.25	.15	159. Purple Lake.....	.45	.25
169. Cobalt Blue.....	.65	.35	196. Purple Madder.....	1.40	.70
111. Cologne Earth.....	.25	.15	134. Raw Sienna.....	.25	.15
155. *Constant White.....	.45	.25	135. Raw Umber.....	.25	.15
156. Crimson Lake.....	.45	.25	137. *Red Lead.....	.25	.15
112. Deep Chrome.....	.25	.15	139. Roman Ochre.....	.25	.15
113. *Dragon's Blood.....	.25	.15	160. Roman Sepia.....	.45	.25
114. Emerald Green.....	.25	.15	191. Rose Madder.....	.90	.45
194. *Field's Orange Vermilion.....	\$1.40	.70	161. Ruben's Madder.....	.45	.25
115. *Flake White.....	.25	.15	140. Sap Green.....	.25	.15
182. French Blue.....	.90	.45	162. Scarlet Lake.....	.45	.25
183. Gallstone.....	.90	.45	163. Scarlet Vermilion.....	.45	.25
116. Gamboge.....	.25	.15	164. Sepia.....	.45	.25
184. Green Oxide of Chromium.....	.90	.45	197. Smalt.....	1.40	.70
117. Hooker's Green, No. 1.....	.25	.15	141. Terre Verte.....	.25	.15
118. Hooker's Green, No. 2.....	.25	.15	198. Ultramarine Ash.....	1.40	.70
185. Indian Purple.....	.90	.45	142. Vandyke Brown.....	.25	.15
119. Indian Red.....	.25	.15	143. Venetian Red.....	.25	.15
170. Indian Yellow.....	.65	.35	144. Vermilion.....	.25	.15
120. Indigo.....	.25	.15	173. Violet Carmine.....	.65	.35
186. Intense Blue.....	.90	.45	174. Viridian.....	.65	.35
121. Italian Pink.....	.25	.15	165. Warm Sepia.....	.45	.25
122. Ivory Black.....	.25	.15	145. Yellow Lake.....	.25	.15
123. *King's Yellow.....	.25	.15	146. Yellow Ochre.....	.25	.15

PRICE LIST OF COLORS ARRANGED ACCORDING TO GRADES, see page 153.

PRICE LIST OF COLORS ARRANGED ACCORDING TO TINTS, see page 155.

WINSOR & NEWTON'S WATER COLORS.

Arranged according to Tints.

COLORS MARKED * ARE NOT MADE MOIST.

Colors can be ordered by their numbers.

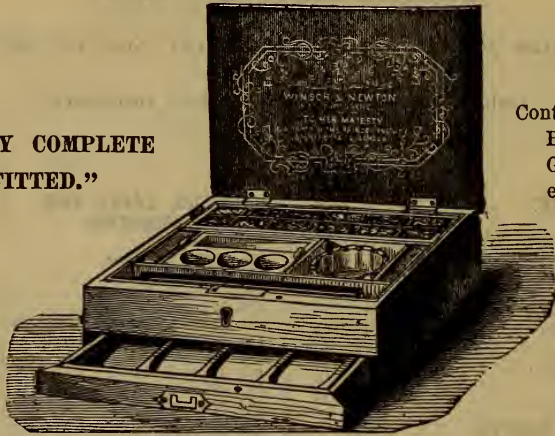
	Whole Cake or Pan.	Half Cake or Pan.		Whole Cake or Pan.	Half Cake or Pan.
WHITE.			REDS, LAKES AND MADDERS.		
No.			No.		
109. Chinese White.....	.25	.15	178. Burnt Carmine.....	.90	.45
155. *Constant White.....	.45	.25	181. Carmine.....	.90	.45
115. *Flake White.....	.25	.15	156. Crimson Lake.....	.45	.25
BLACK.			113. *Dragon's Blood.....	.25	.15
151. *Black Lead.....	.45	.25	194. *Field's Orange Vermilion	\$1.40	.70
102. Blue Black.....	.25	.15	119. Indian Red.....	.25	.15
103. *British Ink.....	.25	.15	121. Italian Pink.....	.25	.15
122. Ivory Black.....	.25	.15	125. Light Red.....	.25	.15
124. Lamp Black.....	.25	.15	195. *Madder Carmine.....	1.40	.70
BLUE AND PURPLE.			189. Pink Madder.....	.90	.45
100. Antwerp Blue.....	.25	.15	190. Pure Scarlet.....	.90	.45
153. Cerulean Blue.....	.45	.25	137. *Red Lead.....	.25	.15
169. Cobalt Blue.....	.65	.35	191. Rose Madder.....	.90	.45
182. French Blue.....	.90	.45	161. Ruben's Madder.....	.45	.25
185. Indian Purple.....	.90	.45	162. Scarlet Lake.....	.45	.25
120. Indigo.....	.25	.15	163. Scarlet Vermilion.....	.45	.25
186. Intense Blue.....	.90	.45	143. Venetian Red.....	.25	.15
128. New Blue.....	.25	.15	144. Vermilion.....	.25	.15
132. Prussian Blue.....	.25	.15	173. Violet Carmine.....	.65	.35
159. Purple Lake.....	.45	.25	YELLOW AND ORANGE.		
196. Purple Madder.....	\$1.40	.70	177. Aureolin.....	.90	.45
197. Smalt.....	1.40	.70	179. Cadmium Orange.....	.90	.45
198. Ultramarine Ash.....	1.40	.70	180. Cadmium Yellow.....	.90	.45
GREEN.			110. Chrome Yellow.....	.25	.15
114. Emerald Green.....	.25	.15	112. Deep Chrome.....	.25	.15
184. Green Oxide of Chromium.	.90	.45	116. Gamboge.....	.25	.15
117. Hooker's Green, No. 1.....	.25	.15	170. Indian Yellow.....	.65	.35
118. Hooker's Green, No. 2.....	.25	.15	123. *King's Yellow.....	.25	.15
129. Olive Green.....	.25	.15	171. Lemon Yellow.....	.65	.35
133. Prussian Green.....	.25	.15	187. Mars Orange.....	.90	.45
140. Sap Green.....	.25	.15	157. Mars Yellow.....	.45	.25
141. Terre Verte.....	.25	.15	126. Naples Yellow.....	.25	.15
174. Viridian.....	.65	.35	158. Neutral Orange.....	.45	.25
BROWNS, SIENNAS AND UMBERS.			130. Orange Chrome.....	.25	.15
152. Brown Madder.....	.45	.25	172. Orange Vermilion.....	.65	.35
105. Brown Ochre.....	.25	.15	188. Pale Cadmium Yellow.....	.90	.45
106. Brown Pink.....	.25	.15	145. Yellow Lake.....	.25	.15
107. Burnt Sienna.....	.25	.15	146. Yellow Ochre.....	.25	.15
108. Burnt Umber.....	.25	.15	VARIOUS.		
154. *Chalons Brown.....	.45	.25	101. Bistre.....	.25	.15
111. Cologne Earth.....	.25	.15	104. *Bronze.....	.25	.15
134. Raw Sienna.....	.25	.15	183. Gallstone.....	.90	.45
135. Raw Umber.....	.25	.15	127. Neutral Tint.....	.25	.15
160. Roman Sepia.....	.45	.25	131. Payne's Grey.....	.25	.15
164. Sepia.....	.45	.25	139. Roman Ochre.....	.25	.15
142. Vandyke Brown.....	.25	.15			
165. Warm Sepia.....	.45	.25			

PRICE LIST OF COLORS ARRANGED ACCORDING TO GRADES, see page 153.

PRICE LIST OF COLORS ALPHABETICALLY ARRANGED, see page - - 154.

WINSOR & NEWTON'S
BOXES OF WATER COLORS.

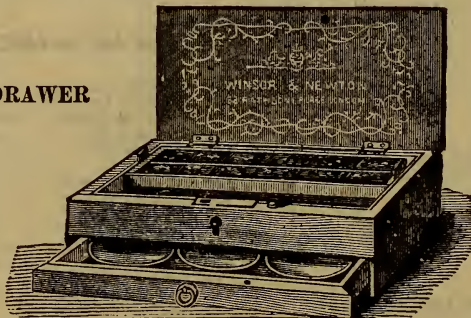
“MAHOGANY COMPLETE
BOX FITTED.”



Containing Colors,
Brushes, Water
Glass, Ink Slabs,
etc.

- | | | | | | |
|---------|------------------------|----------------|-------|-------|---------|
| 12,350. | Mahogany Complete Box, | 24 Whole Cakes | ..... | each, | \$18.00 |
| 12,352. | Mahogany Complete Box, | 18 “ “ | ..... | “ | 14.00 |
| 12,354. | Mahogany Complete Box, | 12 “ “ | ..... | “ | 10.00 |
| 12,362. | Mahogany Complete Box, | 18 Half Cakes | ..... | “ | 8.00 |
| 12,364. | Mahogany Complete Box, | 12 “ “ | ..... | “ | 6.00 |

“LOCK AND DRAWER
BOX.”



Containing Colors,
Brushes, Color
Saucers, etc.

- | | | | | | | | | |
|---------|-------------------------|-------|---------|--|---------|------------------------|-------|--------|
| 12,372. | 18 Colors, Whole Cakes, | each, | \$10.00 | | 12,382. | 18 Colors, Half Cakes, | each, | \$7.00 |
| 12,373. | 12 “ “ “ “ | “ | 6 50 | \| | 12,384. | 12 “ “ “ “ | “ | 5.50 |

“LOCK BOX.”



Containing Colors,
Brushes, etc.

- | | | | | | | | | |
|---------|-------------------------|-------|--------|--|---------|------------------------|-------|--------|
| 12,392. | 18 Colors, Whole Cakes, | each, | \$9.00 | | 12,402. | 18 Colors, Half Cakes, | each, | \$6.00 |
| 12,394. | 12 “ “ “ “ | “ | 6.00 | \| | 12,404. | 12 “ “ “ “ | “ | 4.50 |

WINSOR & NEWTON'S COLOR BOXES (continued).

"SLIDE TOP BOX."



Containing Colors and Brushes.

12,410.	24 Colors, Whole Cakes, each,	\$10.00	12,420.	24 Colors, Half Cakes, each,	\$5.40
12,412.	18 " " " " " "	7.50	12,422.	18 " " " " " "	4.25
12,414.	12 " " " " " "	5.00	12,424.	12 " " " " " "	3.00
12,416.	6 " " " " " "	2.50	12,426.	6 " " " " " "	1.75

SMALL JAPANED TIN BOXES,

With Colors. To carry in the Pocket.

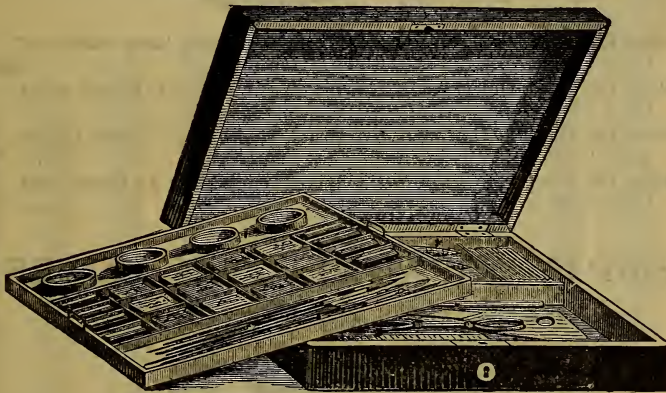
12,430. Pocket Japaned Tin Boxes, filled.

	24	16	12	10	8 Colors.
Each,	\$4.50	3.00	2.20	1.80	1.50

"MURILLO" & "REMBRANDT" COLOR BOXES.

12,450	Murillo Japaned Box, containing 18 Colors, and Brushes.....	each,	\$1.00
12,454.	Rembrandt Japaned Box, " 12 " " "	"	.50

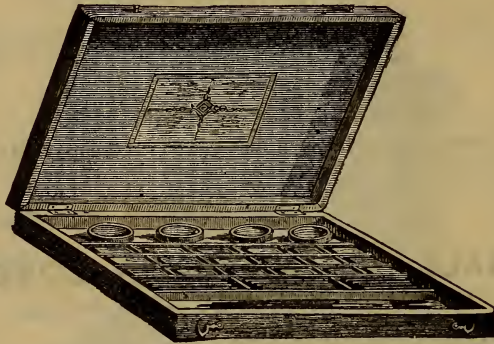
FRENCH WATER COLOR BOXES.



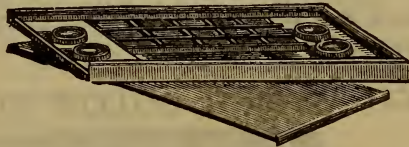
No. 12,520.

12,500.	Dark Polished Hinged Wooden Case, containing a variety of Colors and Brushes, India Ink, Color Cups, Crayons, Crayon Holder, Stump, and Sundries.....	each,	\$7.00
12,504.	Polished Wooden Case, dark finish, Hinged Cover, with Tray, containing a good selection of Color, Brushes, Color Cups, Crayons, and Sundries	"	5.50
12,508.	Polished Wooden Case, with hinged Cover; Tray, to lift out; containing an assortment of Colors, Brushes, Crayons, Cups, and Sundries.....	"	3.50
12,512.	Hinged Wooden Case, Polished, with Tray, containing a collection of Colors, Brushes, Cups, and Sundries.....	"	2.50
12,520.	Imitation Satin Wood Case, hinged Cover, with Tray, containing 18 Colors, 4 Cups, and Colored Crayons	"	1.50

FRENCH WATER COLOR BOXES (continued).



- 12,530. Imitation Satin Wood, Hinged Case, containing Colors, Brushes, Crayons, etc. each, \$1.12
- 12,532. Imitation Satin Wood, Hinged Case, containing 12 Colors, 2 Cups, and Colored Crayons " .85



- 12,550. Slide Lid Box, Imitation Satin Wood, containing large variety of Colors, Color Cups, and Colored Crayons. each, \$1.00
- 12,554. Slide Lid Box, Imitation Satin Wood, containing 15 Colors and 4 Color Cups. " .80
- 12,558. Slide Lid Box, Imitation Satin Wood, containing 15 Small Colors and 4 Color Cups " .60
- 12,562. Slide Lid Box, Imitation Satin Wood, containing 12 Colors and Color Cups " .50

EMPTY JAPANNED TIN BOXES,

For Whole and Half Pans.



- 12,700. Japanned Box, for 24 Whole or 48 Half Pans. each, \$2.00
- 12,702. Japanned Box, " 20 " 40 " " " 1.75
- 12,706. Japanned Box, " 16 " 32 " " " 1.60
- 12,708. Japanned Box, " 12 " 24 " " " 1.45
- 12,710. Japanned Box, " 10 " 20 " " " 1.25
- 12,714. Japanned Box, " 8 " 16 " " " 1.15
- 12,716. Japanned Box, " 6 " 12 " " " 1.00

EMPTY WOODEN BOXES.

For Winsor and Newton's Colors.

12,800. For Whole Cakes, Spaces for	24	18	12 Colors.
Each.....	\$1.00	.75	.60
12,810. For Half Cakes, Spaces for	24	18	12 Colors.
Each.....	.75	.60	.50

WATER

No. 12,900.



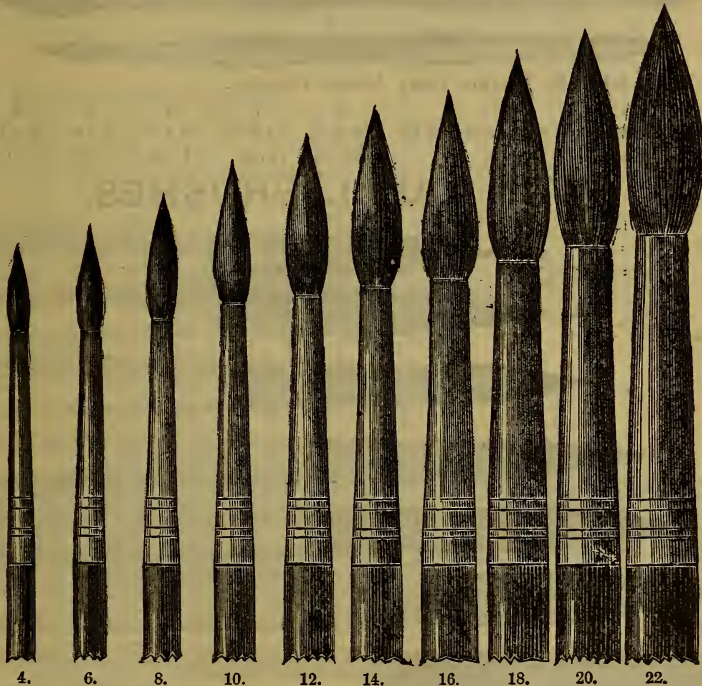
BOTTLES.

No. 12,904.



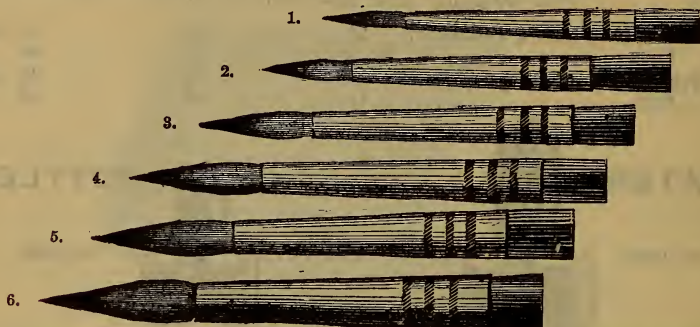
12,900. Jappaned Tin Water Bottles, med. size, with two cups to slip off..each,	.85
12,904. Jappaned Tin Water Bottles, small, with two cups to slip off..... "	.70

WATER COLOR BRUSHES.



13,100. BLACK SABLE, Black Handle, Albata Ferrules.	22	20	18	16	14	12	10	8	6	4	2
Each,	\$3.50	3 00	2.25	1.75	1.25	.90	.75	.60	.45	.35	.30
13,120. RED SABLE, Black Handle, Albata Ferrules, EXTRA QUALITY.	22	20	18	16	14	12	10	8	6	4	2
Each,	\$2.25	2.00	1.65	1.12	.85	.60	.45	.35	.30	.25	.20
13,140. "SABELENE," a grade between Camel Hair and Sable. Yellow Handles.	No.	12	10	8	6	4	2				
Each,	.35	.30	.25	.20	.18						

WATER COLOR BRUSHES (continued).



13,170. **RED SABLE, Extra Long Hair, Winsor & Newton Style, American make.**

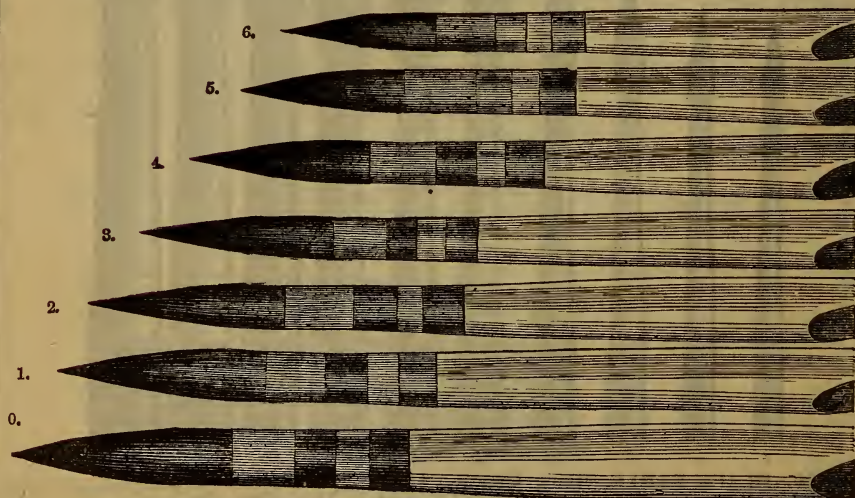
No.	6	5	4	3	2	1
Each,	\$1.00	.80	.60	.50	40	.30



13,210. **RED SABLE, Double End, Albata Ferrules.**

No.	6	5	4	3	2	1
Sizes about equal to No. 13,129	20 & 12	16 & 10	14 & 8	12 & 6	10 & 4	8 & 2
Each,	\$2.50	1.50	1.12	.90	.70	.55

SWAN QUILL BRUSHES.



No 13,370. 13,400.

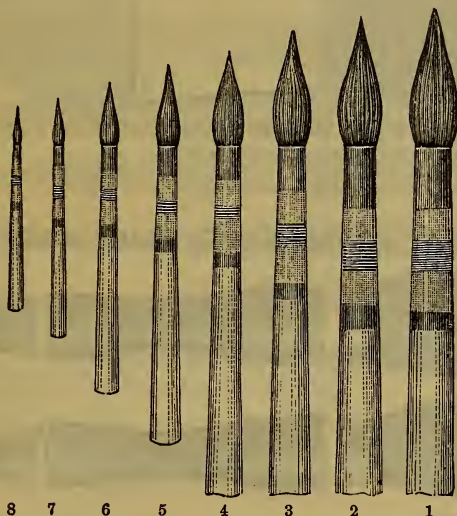
13,370. **BLACK SABLE Swan Quill.**

No.	0	1	2	3	4	5	6
Each,	\$2.75	2.50	2.00	1.35	1.00	.75	.65

13,400. **CAMEL HAIR Swan Quill.**

No.	0	1	2	3	4	5	6
Each,	.50	.45	.35	.25	.20	.18	.15

QUILL BRUSHES.

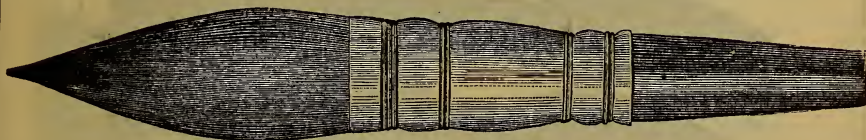


- 13,440. **BLACK SABLE, in Quills.**
- | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|
| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Each, | .50 | .40 | .35 | .30 | .20 | .18 | .15 | .12 |
- 13,460. **"SABELENE," a grade between Sable and Camel Hair, in Quills.**
- | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|----|
| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Each, | .25 | .22 | .20 | .18 | .15 | .12 | .10 | .8 |
- 13,480. **CAMEL HAIR in Quills, Nos. 1 to 8.....each, .5 to 1.0**

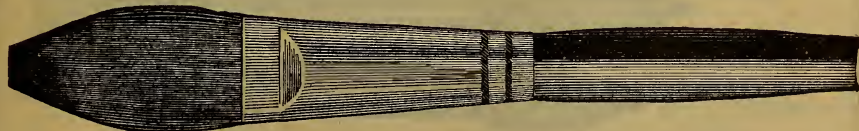


- 13,490. **CAMEL HAIR, in Quills, Extra Large Size.....each, .15**

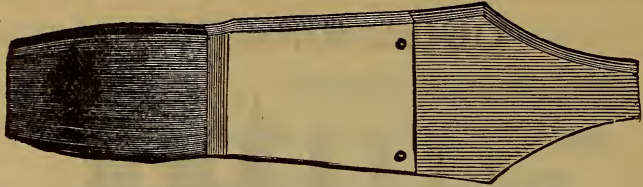
CAMEL HAIR BRUSHES.



- 13,500. **CAMEL HAIR Wash or Sky Brush, Bound in Quills, with Handle.**
- | | | | |
|-----------|---------|-----|-----|
| No..... | 3 | 2 | 1 |
| Each..... | \$.1.00 | .75 | .60 |



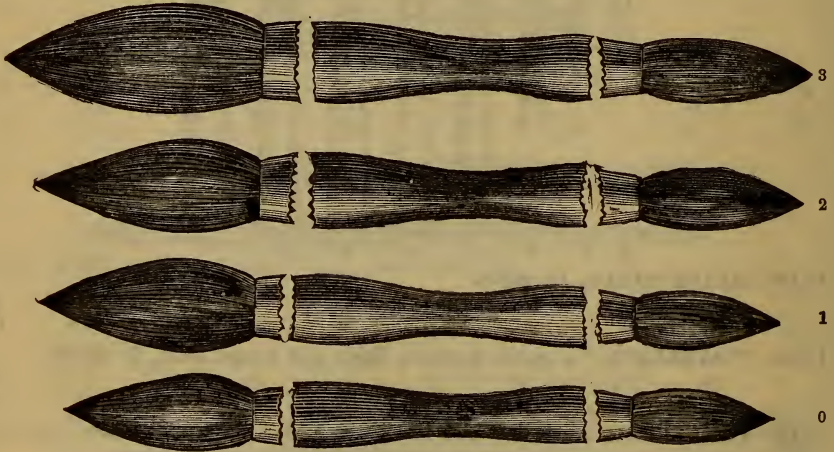
- 13,520. **CAMEL HAIR Wash or Sky Brush, Albata Ferrule, with Handle.**
- | | | | |
|-----------|-----|-----|-----|
| No..... | 3 | 2 | 1 |
| Each..... | .80 | .65 | .50 |



13,550. **FLAT CAMEL HAIR Wash Brushes**, Polished Red Handles, for bold Sky Washes and coloring large surfaces.

Width,	2	1½	1¼	1	¾	½ inch.
Each,	.65	.50	.40	.35	.30	.25

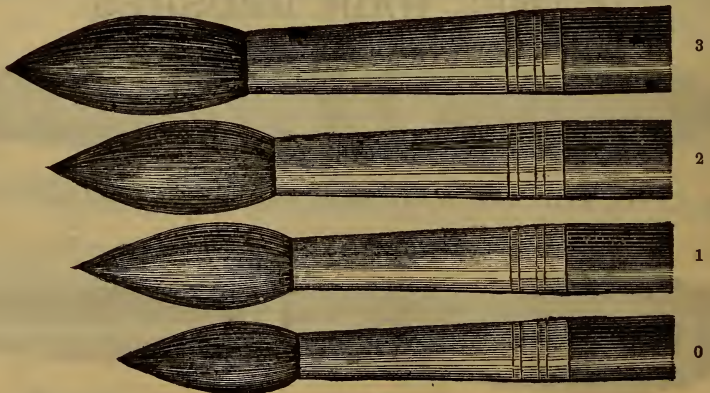
DOUBLE END ROUND CAMEL HAIR WASH BRUSHES.



13,570. **CAMEL HAIR Double End Round Wash or Sky Brushes**, with Polished Handles.

No.	3	2	1	0	00	000
Each,	.75	.60	.50	.45	.40	.35

SINGLE END ROUND CAMEL HAIR WASH BRUSHES.



13,580. **CAMEL HAIR Round Wash or Sky Brushes**, with Polished Handles

No.	3	2	1	0	00	000
Each,	.40	.35	.30	.25	.22	.20

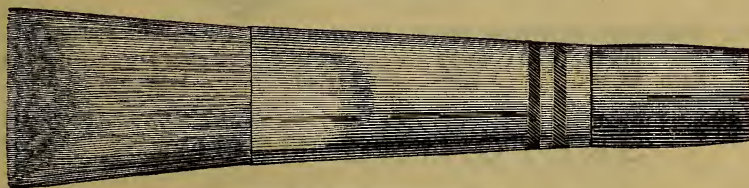
SMALL CAMEL HAIR BRUSHES.



13,600. CAMEL HAIR, in Tin Ferrules, Red Handles.

No.	6	5	4	3	2	1
Each,	.15	.12	.12	.10	.10	10

GUM BRUSHES.



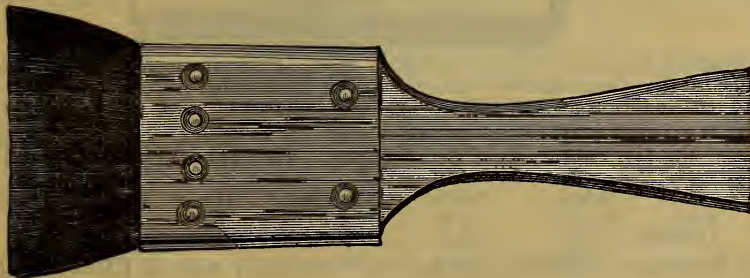
No 13,700.

13,700. GUM BRUSHES, with Long Handles.

Each,	.20 large.	.15 medium.	.12 small.
-------	------------	-------------	------------

Convenient for applying the "Par Excellence" Gum, No. 19,110, or any Mucilage.

BRUSHES FOR PREPARING "BLUE PROCESS" PAPER, ETC.



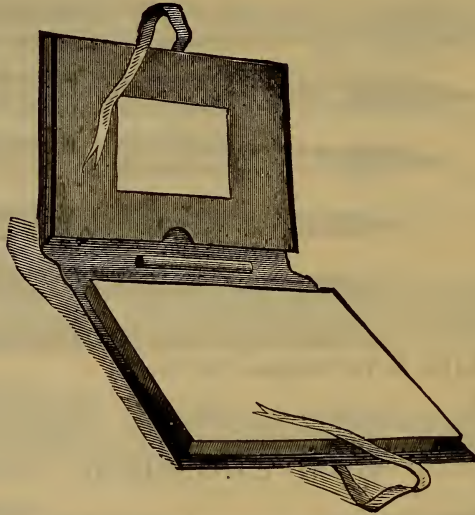
No. 13,710.

13,710. CAMEL HAIR, Flat, Extra Quality, FOR PREPARING BLUE PROCESS PAPERS, Stretching Drawing Papers, Letter Press Copies, etc.

Each,	\$2.75	2.20	1.65	3 inch. 1.12
-------	--------	------	------	-----------------

Other sizes made to order at short notice.

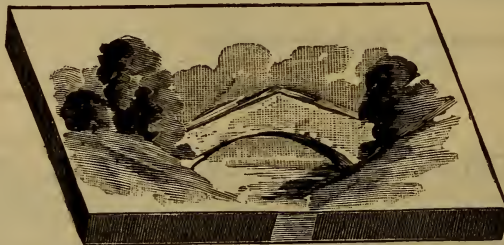
BOUND SKETCHING BLOCKS.



13,900. **Whatman's Sketching Blocks**, bound in strong Cover, with Pocket.

	10×14	9×12	7×10	6×9	5×7 inches.
Each,	\$2.45	1.90	1.40	1.15	.85

SKETCHING BLOCKS.



Sketching Blocks consist of a number of sheets of drawing paper pressed together and glued at the sides, thus forming a solid surface for drawing.

To remove sheets, insert a knife at the uncovered part of sides, and cut all around.

14,000. **"VICTOR" Sketching Blocks**, containing 48 sheets, made of **"Victor,"** No. 147, Cold Pressed Detail Paper. They are useful for bold, off-hand sketches.

	24×30	24×24	18×24	12×18	9×12 inches.
Each,	\$3.50	3.00	2.50	1.50	.85
List Prices, (\$3.90)		(3.35)	(2.80)	(1.70)	(.95)

14,100. **Whatman's Sketching Blocks**, for Water Color, made of **EXTRA HEAVY WHATMAN'S PAPER.**

	14×20	10×14	9×12	7×10	5×7 inches.
Each,	\$5.50	3.25	2.85	1.65	.85

14,120. **Whatman's Sketching Blocks.**

	14×20	12×18	10×14	9×12	7×10	6×9	5×7	4×6	3½×5
Each,	\$2.85	2.20	1.50	1.12	.80	.60	.45	.38	.25

SKETCHING BLOCKS (continued).

14,160. "LEONA" Sketching Blocks, made of "Leona" Paper, for Color and Pencil, and General Drawing.

	15×20	10×15	7½×10	5×7½ inches.
Each,	\$2.50	1.35	.75	.40

14,180. "Empire" Sketching Blocks, for Pencil and General Drawing.

	10×14	9×12	7×10	6×9	5×7	4×6	3½×5 inches.
Each, \$	.80	.55	.45	.30	.25	.20	.15

14,220. "QUEEN" Tinted Sketching Blocks. Assorted Tints. Made of "Queen" Best Tinted Paper.

	10×14	9×12	7×10	6×9	5×7 inch.
Each,	\$1.20	.95	.60	.50	.30

14,260. "JULLIEN" Tinted Sketching Blocks, Assorted Tints. Made of "Jullien" Tinted Paper.

	9×12	6×9	5×7	4×6 inch.
Each.....	\$.65	.35	.25	.20

14,300. "ANTLER" Charcoal Blocks, Assorted Tints. Made of "Antler" Charcoal Paper.

	18×24	12×18	9×12 inch.
Each.....	\$1.75	.90	.45

The sizes of Charcoal Blocks occasionally are a trifle smaller, owing to the uneven edges of the original sheets, which frequently are wrinkled.

14,340. **CROSS SECTION BLOCKS**, made of Cross Section Paper ruled in squares, convenient for sketching plots of ground, sizes of rooms, and general drawing. Every inch line heavier than the rest.

	16×20	10×16	8×10	4×5 inch
Each.....	\$3.00	1.75	1.00	.55

Cross Section Books, see Nos. 840, etc.

14,360. **METALLIC PAPER Sketching Blocks.**

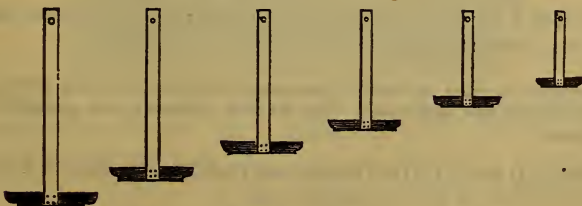
	10×16	8×10	5×8 inch.
Each.....	\$2.20	1.25	.75

Metallic Pencils, No. 16,604, for above.....dozen, .60

Sketches made on this paper do not rub off, and are not affected by moisture.

Metallic Sketching Books, see No. 14,470.

SKETCH BLOCK T SQUARES.



Same as No. 6000.

	18	15	12	9	6	4 inch.
Each,	.42	.38	.34	.30	.26	.22

SKETCHING BOOKS.



14,400. Whatman's Sketching Books.

	10×14	9×12	7×10	6×9	5×7	4×6	3½×5 inch.
Each,	\$2.35	1.90	1.40	1.12	.85	.60	.50

14,420. "LEONA" Sketching Books, made of "Leona" Paper. For Water Color, Pencil and General Drawing.

	10×15	7½×10	5×7½ inch.
Each.....	\$2.00	1.25	.75

14,440. "EMPIRE" Sketching Books, made of "Empire" Drawing Paper.

	10×14	9×12	7×10	6×9	5×7	4×6	3½×5 inch.
Each,	\$1.50	1.25	1.00	.85	.65	.50	.40

14,460. "JULLIEN" Tinted Sketching Books, made of "Jullien" Tinted Paper.

	9×12	6×9	5×7	4×6 inch.
Each.....	\$1.50	.90	.70	.45

14,470. METALLIC PAPER SKETCHING BOOKS,

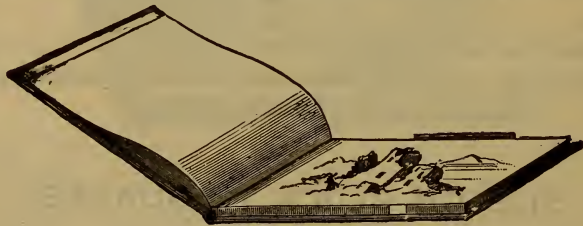
8×10 inches each, \$2.00; 5×8 inches, each, \$1.12.

Metallic Pencils, No. 16,604, dozen, 60c.

Sketches made on this paper do not rub off, and are not affected by moisture.

METALLIC SKETCHING BLOCKS, see No. 14,360.

COMBINED SKETCHING BOOKS AND BLOCKS.



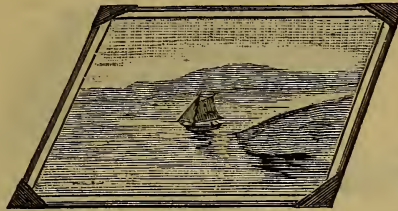
This is a Sketch Book with the front and two side edges of the paper fastened to the lower cover, like a sketching block.

The advantage claimed is, that it possesses the firm drawing surface of a block, and when the sheets are separated they do not get lost, but remain bound to the back of the book.

14,500. COMBINED SKETCHING BOOK and BLOCK, Whatman's Paper, nicely bound in muslin, with gilt lines.

	10×14	9×12	7×10	6×9	5×7	4×6 inch.
Each,	\$3.00	2.50	2.00	1.75	1.00	.75

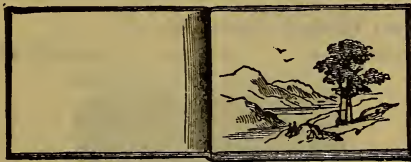
EASEL, OR LAP BOARDS.



14,580. **Easel or Lap Boards.** Made of heavy board, covered with paper; the leather corners hold the paper in position.

	18×24	14×20	12×17	10×14	9×13	8×10 inch.
Each,	\$2.00	1.25	1.00	.85	.75	.60

STUDENTS' DRAWING BOOKS.

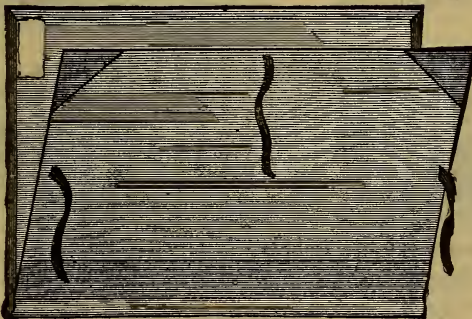


Made of good quality of paper, interleaved with sheets of thin white paper, to prevent the pencil marks from soiling the adjacent sheets.

14,600. Ex. large, 9×11½ Large, 8¼×10¾ Gen'l size, 7¼×9½ Small, 6½×8½ in.

Each,	.30	.25	.20	.15
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PORTFOLIOS.



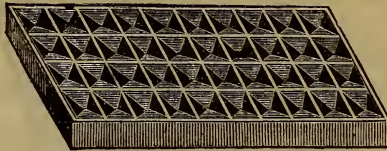
14,700. **Portfolios, Best Quality, Strongest Board, Fine Leather Back and Corners, Muslin Sides, ornamented with gilt lines, with flaps to keep out dust.**

	32×42	26×36	22×31	19×25	16×22	14×18	11×16 inch.
Each, \$7.50	6.00	4.45	3.00	2.50	2.00	1.75	

14,720. **Portfolios, Good Quality, Muslin Back and Corners, Paper Sides.**

	33×42	26×37	23×31	20×25	16×22	14×18	11×16 inch
Each, \$4.45	2.50	1.75	1.25	1.00	.80	.60	

PENCIL RUBBERS.



- 14,780. "WAFFLE" Rubber. Soft and pliable. Does not rub away the paper.
 Extra Large, .35 each. Large, .28 each. Small, .17 each.



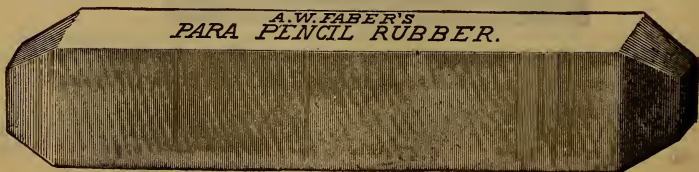
- 14,800. Davidson's Velvet Rubber, Oblong Shape.
 Each, .20 extra large. .10 large. .08 medium. .06 small cake.



- 14,820. A. W. Faber's Artists' Gum, or Rubber.
 Each, .40 extra large. .20 large. .16 medium. .10 small cake.



- 14,840. A. W. Faber's Elliptic Rubber.
 Each, .35 extra large. .25 large. .20 medium. .15 small cake.

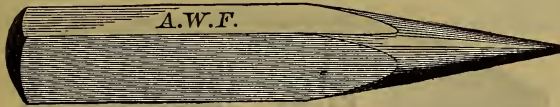


- 14,860. A. W. Faber's Para Pencil Rubber.
 Each, .20 extra large. .10 large. .08 medium. .06 small cake.

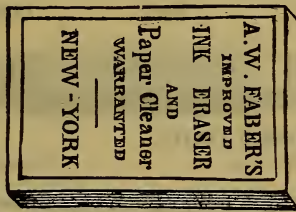
PENCIL AND INK RUBBERS (continued).

14,880. **A. W. Faber's Black Rubber.**
 Each, .50 extra large. .35 large. .25 medium. .15 small cake.

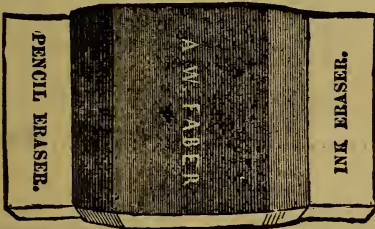
14,900. **A. W. Faber's Virgin Rubber.** This is pure gum, of irregular sizes.
 Each, .50 extra large. .35 large. .25 medium. .15 small cake.



14,920. **A. W. Faber's Pointed Rubber.**
 Each, .12 large. .09 medium. .06 small cake.



14,930. **A. W. Faber's Ink Eraser.**
 Each, .20 extra large. .10 medium. .05 small.



14,940. **A. W. Faber's Ink and Pencil Eraser, Wooden Centre.**
 Each25 mammoth. .15 small.



14,950. **A. W. Faber's Ink Eraser, Long Oval, Pencil Shape** each, .12

14,960. “ “ **Ink and Pencil Eraser, Long Oval, Pencil Shape**... “ .15



15,100. **Wedge Rubber.**
 Each, .20 extra large. .15 large. .10 medium. .08 small cake.

RUBBERS (continued).



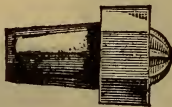
15,110. "Crystal" Rubber. Each, .10 large. .05 small.



15,120. Rubber Stumps, Wooden Centre. Each, .35 large. .25 medium. .15 small.

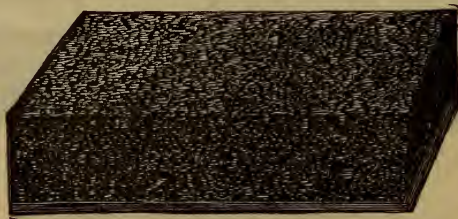


15,130. Rubber Stumps, all Rubber. Each, .12 large. .09 medium. .06 small.



15,140. Rubber Pencil Tips.....dozen, .20

SOLTMANN'S FIRM SPONGE RUBBER.



Has a thin coating of rubber on one side, which holds the porous rubber more firmly.

This quality keeps longer than the soft kind, and is less liable to crumble.

15,200. SOLTMANN'S Firm Sponge Rubber. Cakes about 3x6x1 inch..each, \$1.80
 SOLTMANN'S Firm Sponge Rubber. " " 3x4x1 " .. " 1.20
 SOLTMANN'S Firm Sponge Rubber. " " 2x3x1 " .. " .60
 SOLTMANN'S Firm Sponge Rubber. " " 1½x2x1 " .. " .30

A. W. FABER'S DRAWING PENCILS.



EXPLANATION OF LETTERS.

	About equal to Faber's Number.	About equal to Dixon's Number.
HHHHHH (6H) Hardest	—	VVH
HHHH (4H) Extra Extra Hard	5	VH
HHH Extra Hard	—	H
HH Very Hard	4	MH
H Hard	—	M
F Firm	3	MB
HB Medium, Hard and Black	2	SM
B Soft	—	S
BB Soft, and very Black	1	VS
BBB Very Soft, and very Black	—	VVS
BBBB (4B) Very Soft, and Extra Black	—	—
BBBBB (6B) Extra Extra Soft, and Extra Black	—	—

16,100. **A. W. Faber's Siberian Pencils.**

6H, 4H, 3H, 2H, H, F, HB, B, BB... dozen, \$1.25
 Box, containing 3 dozen of a kind, or assorted each, 3.75

16,110. **A. W. Faber's Siberian Pencils.**

3B, 4B dozen, 1.40

16,112. **A. W. Faber's Siberian Pencils.**

6B " 1.55

EXPLANATION OF NUMBERS.

No. 5, Extra Extra Hard; No. 4, Very Hard; No. 3, Firm; No. 2, Medium Hard, and Black; No. 1, Soft, and Very Black.

16,120. **A. W. Faber's Red Hexagon, Gilt, Pencils.**

Nos. 1, 2, 3, 4, 5 dozen, .75
 Package, containing 3 dozen of a kind, or assorted each, 2.25

16,130. **A. W. Faber's Black, Round, Pencils.**

Nos. 1, 2, 3, 4 dozen, 60
 Package, containing 3 dozen of a kind, or assorted each, 1.80

16,140. **A. W. Faber's Yellow, Round, Silver Pencils.**

Nos. 4H, 3H, 2H, H, F, HB, B, 2B, 3B, 4B dozen, .60
 Box, containing 3 dozen of a kind, or assorted each, 1.80

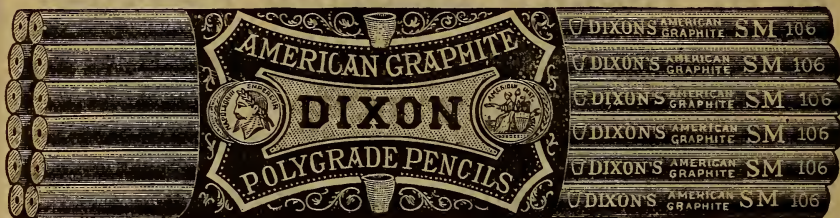
16,150. **A. W. Faber's Mathematical Instrument Pencils.**

Very small, hexagon, gilt, No. 4 dozen, .70

16,152. **A. W. Faber's Mathematical Instrument Pencils.**

Very small, black polished, round, No. 4 " .60

DIXON'S PENCILS.



EXPLANATION OF LETTERS.

VVH Very Very Hard, about the same as Imported.....	6 H
VH Very Hard, " " "	4 H or 5
H Hard, " " "	3 H
MH Medium Hard, " " "	2 H or 4
M Medium, " " "	H or 3
MB Medium Black, " " "	F
SM Soft Medium, " " "	HB or 2
S Soft, " " "	B or 1
VS Very Soft, " " "	BB
VVS Very Very Soft, " " "	BBB

16,180. Dixon's "ARTISTS'" Pencils, Very best quality.

VVH, VH, H, MH, M, MB, SM, S, VS, VVS.....dozen, \$1.10
 Box containing 6 dozen of a kind, or assorted.....each, 6.60

16,200. Dixon's Hexagon Pencils,

VH, H, M, SM, S.....dozen, .67
 Box containing 6 dozen of a kind, or assorted.....each, 4.00

16,210. Dixon's Round Pencils,

VH, H, M, SM, S.....dozen, .55
 Box containing 6 dozen of a kind, or assorted.....each, 3.30



16,220. Dixon's Rubber Tip Pencils.....dozen, .85

GILBERT'S PENCILS (French).



These Pencils are extensively used abroad, and are rapidly gaining favor in this country. The manufacturers have been awarded Gold Medals by the Exposition Universelle, Paris, 1878, and the Society for the Encouragement of Arts, in 1880.

The following Artists and professional men have recommended them in highest terms : E. Meissonier, L. Gérôme, E. Grandsiré, A. Cabanel, J. Schubert, Gustave Doré, A. Lenoir, H. Clerget, and A. Cassagne.

16,250. Gilbert's Siberian Pencils, Best Quality.

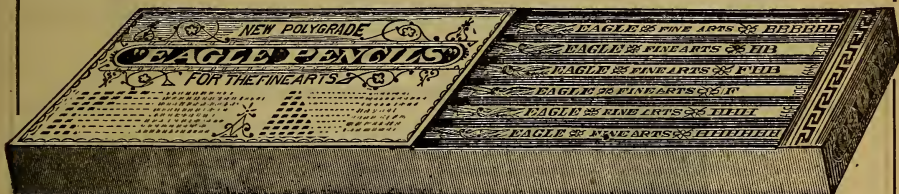
B=No. 0. HB=1. F=2. H=3. 2H=4. 3H=5.....dozen, \$1.00

GILBERT'S PENCILS (continued).



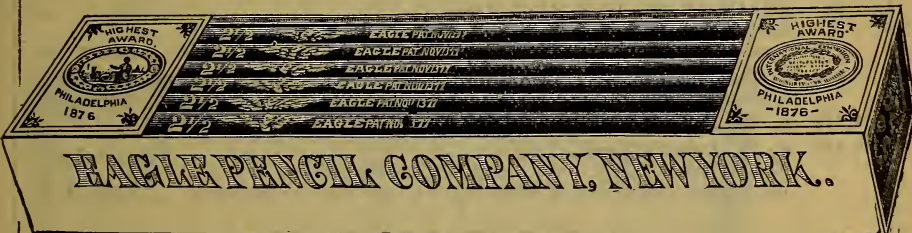
16,270. Gilbert's Round Pencils, 0, 1, 2, 3, 4, 5.....dozen, .50

EAGLE PENCILS.



16,290. Eagle "Fine Arts" Pencils, best Quality.

6H, 5H, 4H, 3H, 2H, H, F, FHB, HB, B, 2B, 3B, 4B, 5B, 6B ... dozen, \$1.00
 Box, containing half dozen of a kind50
 Box, containing 3 dozen of a kind, or assorted 3.00



16,300. Eagle Pencils, 1, 2, 2½, 3, 4.....dozen, .45
 Box containing 6 dozen of a kind, or assorted each, \$2.67

STAR PENCILS.

16,330. Star Pencils, 1, 2, 3, 4.....dozen, .30
 Box containing 6 dozen of a kind, or assorted each, \$1.65

Various other standard grades of Pencils in stock or furnished at short notice.

A. W. FABER'S ARTISTS' PENCILS.



16,400. A. W. Faber's Siberian Artists' Pencils, with Movable Lead.
 6H, 4H, 3H, 2H, H, F, HB, B, BB.....(List Price, .28) each, .25
 Box containing 6 Artists' Pencils of a kind, or assorted of any
 number from 6H to BB " \$1.50
 16,410. A. W. Faber's Siberian Artists' Pencils, 3B, 4B " .30
 16,412. A. W. Faber's Siberian Artists' Pencils, 6B..... " .35



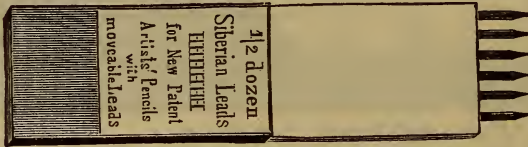
16,414. A. W. Faber's Siberian Artists' Pencils, Double End (List Price, .33) each, .30

A. W. FABER'S ARTISTS' PENCILS (continued).



- 16,420. A. W. Faber's Artists' Pencils, with Movable Leads.
 - Nos. 1, 2, 3, 4, 5 each, .20
 - Box, containing 1 dozen of a kind, or Assorted \$2.40
- 16,430. A. W. Faber's Artists' Pencils, with Movable Leads, Medium Length..... each, .20
- 16,432. A. W. Faber's Artists' Pencils, with Movable Leads, Short..... " .17
- 16,440. Ivory, Artists' Pocket Pencils, to hold Faber's Leads.
 - Each, $\frac{4}{.70}$ $\frac{3\frac{1}{2}}{.60}$ $\frac{3\frac{1}{4}}{.50}$ inch.

A. W. FABER'S ARTISTS' LEADS.



These Leads can be used for the Pencil Points of Mathematical Instruments.

- 16,460. A. W. Faber's Siberian Artists' Leads, for Artists' Pencils.
 - 6H, 4H, 3H, 2H, H, F, HB, B, 2B box, .65
 - Large case, containing 12 small boxes of a kind, from 6H to 2B, or assorted case, \$7.80
- 16,470. A. W. Faber's Siberian Artists' Leads, for Artists' Pencils, 3B, 4B box, .75
- 16,472. A. W. Faber's Siberian Artists' Leads, for Artists' Pencils, 6B .. " .85
- 16,480. A. W. Faber's Leads.
 - Nos. 1, 2, 3, 4, 5..... " .35
 - Large case, containing 12 small boxes of one kind, or assorted..... case, 4.20

VARIOUS PENCILS.

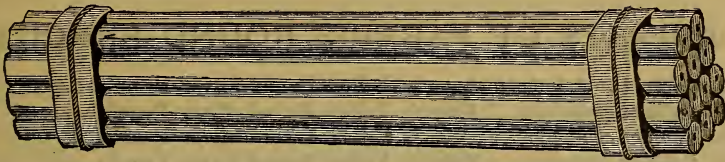
- 16,600. Stenographic Pencils, dozen, \$1.00
- 16,604. Metallic, for Writing and Sketching on Metallic Paper " .60
- 16,608. Indelible Pencils, Large... " 1.25



- 16,620. Indelible Pencil, with movable Copying Lead each, .25



- 16,624. Copying Leads, for Indelible Pencil box, .25
- 16,640. A. W. Faber's Black Chalk Pencils, in Cedar, Hard and Soft .. dozen, .55



- 16,648. Red Chalk, in Polished Cedar, best quality, for marking Stakes, etc. .dozen, .75
- 16,650. Red Chalk, in Cedar, for marking Stakes, etc..... " .55



- 16,680. Carpenters' Pencils, extra quality, in Polished Cedar.

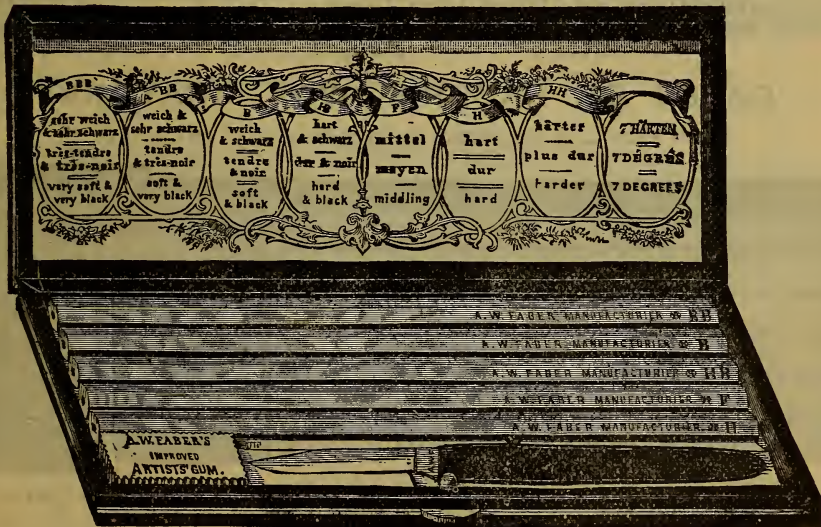
	12	9	7 inch.
Dozen,	\$1.00	.75	.55

ANY OF THE PENCILS IN THE FOLLOWING SETS CAN BE REPLACED WHEN USED.

CABINETS OF FABER'S ARTISTS' PENCILS.

- 16,750. Cabinet containing 10 Faber's Siberian Artists' Pencils, with Movable Leads..... each, \$3.50
- 16,752. Cabinet containing 7 Faber's Siberian Artists' Pencils, with Movable Lead..... " 2.50
- 16,754. Cabinet containing 5 Faber's Siberian Artists' Pencils, with Movable Leads..... " 2.00
- 16,756. Cabinet containing 5 Faber's Siberian Artists' Pencils, with Moveable Leads and File and Rubber..... " 2.20

CABINETS OF FABER'S SIBERIAN PENCILS.

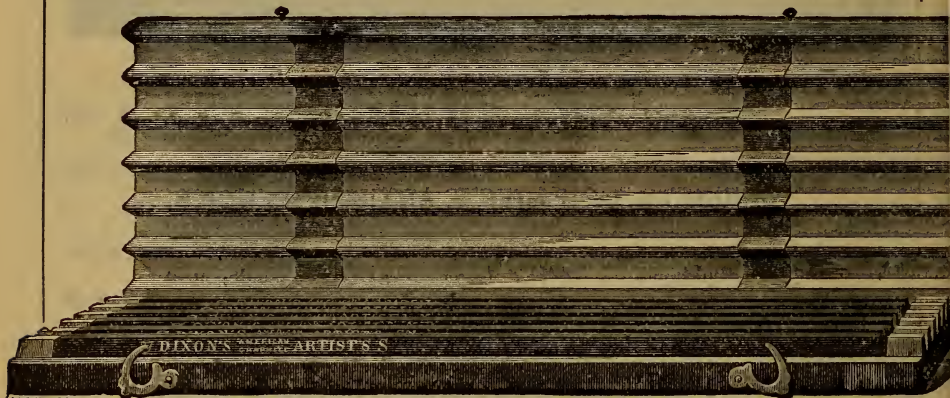


- 16,760. Cabinet containing 10 Faber's Siberian Pencils.....each, \$1.75
- 16,762. Cabinet containing 7 Faber's Siberian Pencils..... " 1.25
- 16,764. Cabinet containing 5 Faber's Siberian Pencils..... " 1.00
- 16,766. Cabinet containing 5 Faber's Siberian Pencils and Knife and Rubber..... " 1.25

CABINETS OF FABER'S ROUND PENCILS.

- 16,770. Cabinet containing 10 Faber's Yellow Round Silver Pencils... each, .85
- 16,772. Cabinet containing 7 Faber's Yellow Round Silver Pencils... " .75
- 16,774. Cabinet containing 5 Faber's Yellow Round Silver Pencils ... " .65
- 16,776. Cabinet containing 5 Faber's Yellow Round Silver Pencils and
Knife and Rubber..... " \$1.00

CABINETS OF DIXON'S ARTISTS' PENCILS.



- 16,790. Cabinet containing 8 Dixon's Artists' Pencils..... each, \$1.50
- 16,792. Cabinet containing 6 Dixon's Artists' Pencils..... " 1.12
- 16,794. Cabinet containing 4 Dixon's Artists' Pencils..... " .75

CASES OF FABER'S WAX CRAYONS.

EACH PENCIL IS POLISHED IN THE COLOR OF THE LEAD.



- 16,850. Case containing 48 assorted Faber's Wax Crayons..... each, \$4.40
- 16,852. Case containing 36 assorted Faber's Wax Crayons..... " 3.50
- 16,854. Case containing 24 assorted Faber's Wax Crayons..... " 2.50
- 16,856. Case containing 18 assorted Faber's Wax Crayons..... " 2.00
- 16,858. Case containing 12 assorted Faber's Wax Crayons..... " 1.50
- 16,860. Case containing 6 assorted Faber's Wax Crayons..... " .80

Separate Wax Crayons, see next page.

A. W. FABER'S WAX CRAYONS—continued.

- 16,870. A. W. Faber's Wax Crayons, SEPARATE COLORS. doz., \$1.25, each, .12
 No. 1, White. 2, Yellow. 13, Dark Blue. 34, Sienna. 38, Vermilion. 41, Black.
 54, Purple. 62, Orange. 63, Light Green. 69, Dark Green. 75, Carmine. 88, Light
 Blue. And numerous other colors.

SMALL BOXES OF COLORED PENCILS.

- 16,900. Small box containing 12 Short Colored Wax Crayons.....each, .50
 16,910. Small box containing 12 Short Colored Pencils..... " .35
 16,914. Small box containing 6 Short Colored Pencils..... " .22

CARMINE AND BLUE PENCILS.

- 16,930. A. W. FABER'S Large Carmine and Blue Pencils, Hexagon..dozen, \$1.25
 16,940. Carmine and Blue Pencils, Fine Quality..... " 1.00
 Carmine and Blue are also made in cheaper grades.

PENCIL POINT PROTECTOR.



- 16,970. Pencil Point Protector.....dozen, .55 each, .05

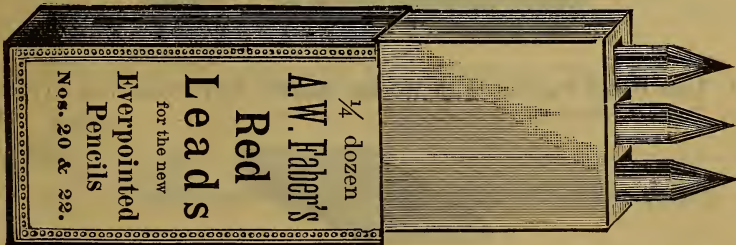
LARGE LUMBER AND MARKING PENCILS.



- 17,100. A. W. Faber's Thick Red and Blue Artists' Pencil, with Mov-
 able Leadseach, .50



- 17,104. A. W. Faber's Thick Blue Artists' Pencil, with Movable Leads ..each, .30
 17,106. A. W. Faber's Thick Red Artists' Pencil, with Movable Leads.. " .30



- 17,110. A. W. Faber's Red Leads, for Nos. 17,100 and 17,106box, .30
 Box, containing 12 small boxes.each, \$3.30
 17,114. A. W. Faber's Blue Leads for Nos. 17,100 and 17,104.....box, .30
 Box, containing 12 small boxeseach, 3.30

EXTRA HEAVY COLORED PENCILS, see next page.

EXTRA HEAVY COLORED PENCILS,

FOR

Coloring Details, Marking Lumber, etc.



These Pencils are of fine quality. The heavy lead does not break easily, and large surfaces can be colored in a short space of time.

- 17,130. Blue, Red, Yellow, Brown, Green, Blackdozen, \$1.75 each, .17
 - 17,136. Box, containing Blue, Red, Yellow, Brown, and Green85
- (Any desired assortment substituted for above box at same price.)

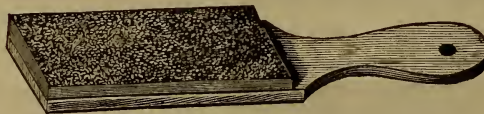
POCKET LEAD PENCIL POINTER.



No. 17,250.

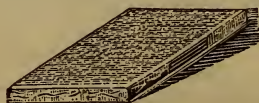
Consists of a number of sheets of fine sand-paper pressed into a block; when the upper sheet is used, insert a knife at the uncovered part of the side, and cut all around. To prevent the loose lead which adheres to the sand-paper from soiling the pocket, the block is enclosed in a small, neat, folding case, with rubber band, to keep it closed when not in use.

- 17,250. POCKET LEAD PENCIL POINTER, Narrow Oblongeach, .20
- Package, containing 1 dozen \$2.40



No. 17,254.

- 17,254. Lead Pencil Pointer, with Wooden Handle, Narrow (List Price, .17) each, .15
- Package, containing 1 dozen \$1.80



- 17,260. Lead Pencil Pointer, Wide Oblong.....(List Price, .17) each, .15
- Package, containing 1 dozen " \$1.80
- 17,264. Lead Pencil Pointer, Narrow Oblong..... " .12
- Package, containing 1 dozen " 1.30

AUTOMATIC SHADING PENS AND INKS.

HEAVY AND LIGHT LINES PRODUCED BY A SINGLE STROKE OF THE PEN.

One-half of the lower nib contains small notches which cause more ink to flow on one side and produce the shaded appearance.



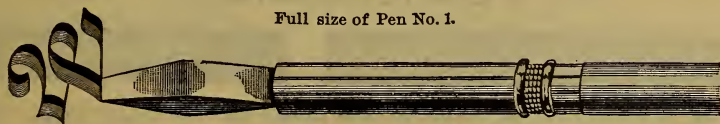
No. 17,300.

17,300. Complete Shading Pen and Ink Cabinet.

A neat case, so arranged that each pen is separated from the other, and the inks cannot upset. Containing 6 Pens and 6 assorted Inks, Sample Sheet of Letters and Directions for Use..... each, \$3 00

AUTOMATIC SHADING PENS. Six Sizes.

Full size of Pen No. 1.



No.	5	4	3	2	1	0	
Width of Nib,	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{1}{8}$	$\frac{1}{16}$	inch.

- 17,310. Box containing above 6 Pens, with Sample Sheet of Letters and Directions for Use..... each, \$1.50
- 17,314. Separate Pens..... " .25

"SHADENE" SHADING INKS, SEE NEXT PAGE.

THE "SHADENE" SHADING INK.

FOR WRITING WITH THE SHADING PEN.

In Square, Wide Necked Bottles, with Rubber Corks.

PURPLE,

BRILLIANT CARMINE,

BROWN,

BLUE,

GREEN,

BLACK,

CARMINE.

YELLOW.



- 17,320. "SHADENE" Shading Ink. Any of above 8 colors.
 Neat Polished Partitioned Box, containing 12 Bottles..... each, \$1 90
 " " " " " " 6 " " " " " 1.00
 Bottle..... (List Price, 17) " .15

GISBURNE'S RULING PEN.



- 17,324. Gisburne's Ruling Pens. No. 1, Fine. 2, Medium. 3, Broad Point.
 Card containing 6 Penscard, 67c. each, .12

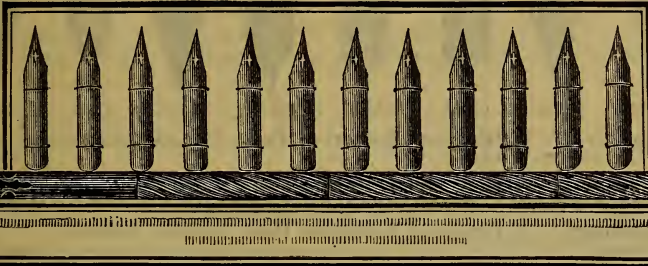
PENHOLDERS.



- 17,334. Penholders, extra fine, highly finished handle.....dozen, \$1.00
 17,336. Penholders, fine, " " " " .50
 17,337. Penholders, medium, well " " " .40
 17,338. Penholders, good quality... " .30
 17,339. Penholders, plain..... " .20
 17,340. Penholders, very small, to hold Gillott's Mapping and other small
 Pens..... " .25

STEEL LETTERING AND WRITING PENS.

JOSEPH GILLOTT'S MAPPING PEN



No. 17,354.

- 17,350. Gillett's Extra Fine Long Nib Crow Quills, on Cards with Holder . . doz., .85
- 17,352. Gillett's Crow Quills, on Cards with Holder " .65
- 17,354. Gillett's Mapping Pens, on Cards with Holder " .65
- 17,356. Gillett's Lithographic Pens, on Cards with Holder " .65
- 17,360. French Crow Quills, on Cards, each Pen with Holder " .50
- 17,370. Gillett's Lettering Pens No. 303, gross box, \$1.50 " .15
- 17,372. Gillett's Lettering Pens No. 170, " " 1.12 " .12
- 17,374. Gillett's Lettering Pens No. 404, " " 1.00 " .12



The sticks generally used for Crow Quills are so thin that the hand becomes cramped. This Holder is of the size of a regular pen holder.

- 17,394. Crow Quill Pen Holder, Polished each, .10
- Package containing one dozen \$1.20

SPENCERIAN STEEL PENS.



17,452.



17,454.



17,450.



17,458.



17,456.

- 17,450. Spencerian Lettering Pens, No. 1, "College" fine point Box cont. 3 doz. Doz. .38 .15
- 17,452. Spencerian Lettering Pens, No. 2, "Counting House" med. point 38 .15
- 17,454. Spencerian Lettering Pens, No. 3, "Commercial" coarse point 38 .15
- 17,456. Spencerian Lettering Pens, No. 14, "Artistic," very fine point Box cont. 1 gross. 1.50 .15
- 17,458. Spencerian Lettering Pens, No. 15, "Queen," extra fine point 1.50 .15
- 17,460. Spencerian Lettering Pens, No. 25, "Drawing," extra fine point 1.50 .15
- 17,480. Pickwick Pen, for coarse writing and for marking on rough paper. The end of nib is bent upwards Box cont. 3 doz. .38 .15

ESTERBROOK'S STEEL PENS.



No. 17,502.



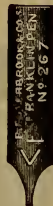
17,504.



17,524.



17,526.



17,528.



17,520.



17,522.



17,500.

No.	Description	Gross Box.	Doz.
17,500.	Esterbrook's Writing and Lettering Pens, No. 128 "Extra Fine Double Elastic"	\$1.00	.12
17,502.	Esterbrook's Writing and Lettering Pens, No. 048, "Falcon" medium point	1.00	.12
17,504.	Esterbrook's Writing and Lettering Pens, No. 182, "Ladies' Falcon"	1.00	.12
17,520.	Esterbrook's Engrossing Pens, No. 117, extra fine point.	1.00	.12
17,522.	Esterbrook's Engrossing Pens, No. 122, medium point.	1.00	.12
17,524.	Esterbrook's Engrossing Pens, No. 161, Short Nib, medium point.	1.00	.12
17,526.	Esterbrook's Engrossing Pens, No. 239, Chancellor, medium point	1.00	.12
17,528.	Esterbrook's Engrossing Pens, No. 267, Franklin, med. point.	1.00	.12



17,536.



17,538.

17,536.	Esterbrook's Double Line Ruling Pen, No. 344, on Cardsdozen,	.35
17,538.	Esterbrook's "Red Ink" Pen, of German Silver, 343, on Cards	25

ROUND WRITING PENS AND BOOKS.



17,560. Round Writing Combination Pen. Consists of a Holder and nine small Pens. for Ornamental Writing in Double or Treble Lines . . .each, \$1.00



17,570.



17,580.

17,570.	Round Writing Pens, Double. Nos. 10, Wide ; 20, Medium ; 30, Narrow.	Box of 3 dozen, \$1.00 ; dozen. assorted, .50
17,580.	Round Writing Pens, Single. Widest, No. 1 ; narrowest, No. 6. Nos. 1, 2, 3, 4, 5, 6.	box of 3 dozen, .35 dozen, .15
17,594.	Assortment of 25 Single and Double Pens, in Box. . . . .	.35

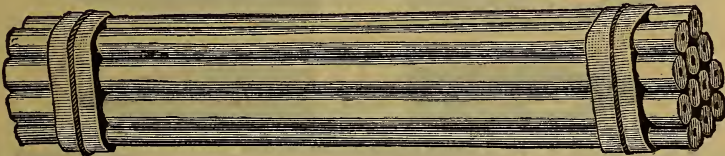


17,600.	Penholder, for Round Writing Pens.	each, .10
17,620.	Round Writing Copy Book, with Assortment of 25 Pens.	" .90
17,622.	Round Writing Copy Book, without Pens.	" .60
	Round Writing Copy Book (same as 20,152).(List Price, .28)	" .25

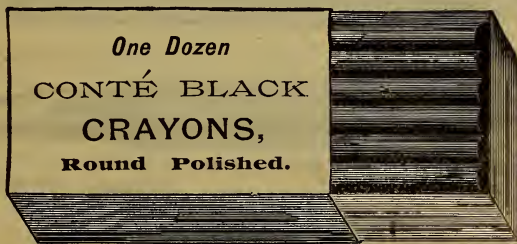
CRAYON DRAWING OUTFITS.

- 17,750. **Polished Wooden Box**, containing Crayons of various grades, Crayon Pencils, Charcoal, Crayon Sauce, Leather and Paper Stumps, Chamois Palette, Rubbers, Rubber Stumps, Crayon Holders, Tacks, Chamois Leather for Shading, Knife, Pencils, and a Treatise on Crayon Drawing.....each, \$7.50
- 17,754. **Wooden Box** containing Crayons, Crayon Pencils, Charcoal, Crayon Sauce, Stumps, Chamois Leather for Shading, Tacks, Knife, Crayon Holder..... “ 4.00
- 17,758. **Wooden Box** containing a variety of Crayons, Stumps, etc., for general Crayon Drawing..... “ 2.50

CRAYONS, etc.

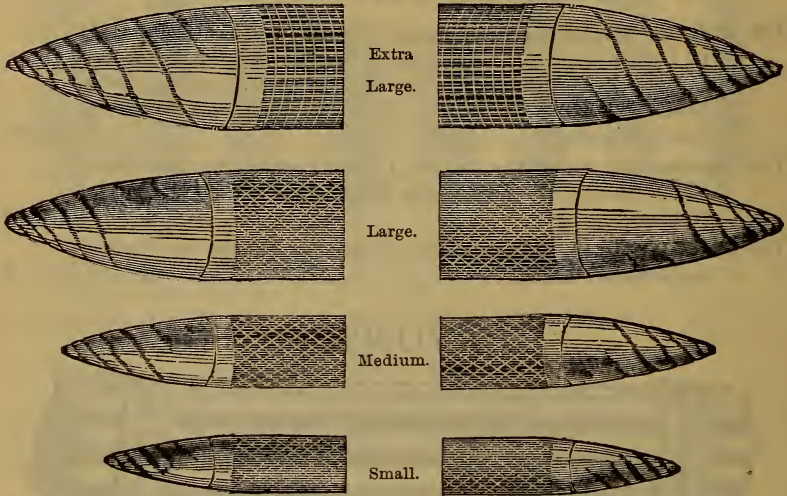


- | | | | |
|---------|--|--|--------|
| | | | Dozen. |
| 17,780. | Conte Crayons, Black, in Wood, (Pencil Shape) "Velvet," very soft... | | \$1.25 |
| 17,782. | Conte Crayons, Black, in Wood, " " No. 3, soft..... | | .90 |
| 17,784. | Conte Crayons, Black, in Wood, " " No. 2, medium..... | | .60 |
| 17,786. | Conte Crayons, Black, in Wood, " " No. 1, hard..... | | .60 |
| 17,792. | Conte Crayons, White, in Wood, " " | | .60 |



- | | | | | |
|---------|---|----------------|--------------|----------|
| | No. 1, Hard. | No. 2, Medium. | No. 3, Soft. | |
| 17,800. | Conte Crayons, Black, in Round Sticks, Polished, Medium Hard, Box containing 1 dozen..... | | | box, .60 |
| 17,804. | Conte Crayons, Black, in Round Sticks, Nos. 1, 2, 3, Box containing 1 dozen | | | “ .40 |
| 17,808. | Conte Crayons, Black, in Square Sticks, Nos. 1, 2, 3, Box containing 1 dozen | | | “ .20 |
| 17,812. | Conte Crayons, White, in Round Sticks, Box containing 1 dozen. “ | | | .40 |
| 17,816. | Conte Crayons, White, in Square Sticks, “ “ “ “ | | | .20 |
| 17,820. | Conte Crayons, Red, in Round Sticks, “ “ “ “ | | | .40 |
| 17,830. | Conte Crayon Sauce, in Tin Foil packages. Large, doz., \$1.20. Small, doz., | | | .75 |
| | A. W. Faber's Black Chalk Crayons, in Cedar, (same as 16,640) | | | |
| | Hard and Soft.....dozen, | | | .55 |
| | Red Chalk, same as 16,648, in Polished Cedar.....dozen, | | | .75 |
| | Red Chalk, same as 16,650, in Cedar..... “ | | | .55 |

STUMPS.



- 17,850. Yellow Chamois Leather Stumps.....doz., assorted, \$1.25
 " " " " Separate sizes:
 Each, .25 extra large. .20 large. .15 medium. .12 small. .10 very small.
- 17,860. Extra White Kid Stumps.....doz., assorted, \$1.50
- 17,870. Extra Cork Stumps....." " 1.50
- 17,880. Paper Stumps....." " .35



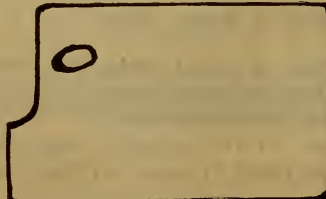
- 17,900. Miniature Paper Stumps.....doz., .10



- Rubber Stumps, Wooden Centre, same as No. 15,120:
 Each,..... .35 large. .25 medium. .15 small.



- Rubber Stumps. All Rubber, same as No. 15,130:
 Each,..... .12 large. .09 medium. .06 small.
- 17,910. Fine Chamois Skins for Stumping and Shading and for Cleaning
 Instruments.
 Each,..... .30 medium. .20 small size.



- 17,914. Chamois Palettes for holding and mixing crayon ready for stumping.
 Each,..... .35 large. .25 small.

CRAYON HOLDERS.



No. 17,950-17,952.

This style of Crayon Holder is the most durable kind. The Crayon or Pencil is placed in the metal jaws and clamped by pressing the metal towards the centre of wooden handle.

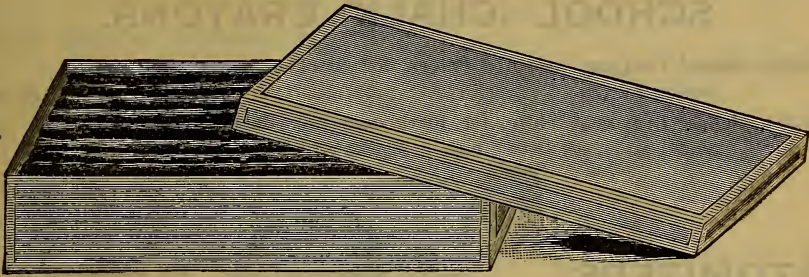
- 17,950. Crayon Holder, Double End, German Silver, Wooden Centre...each, .40
- 17,952. Crayon Holder, Double End, Brass, " " " " " " .25



No. 17,960-17,980.

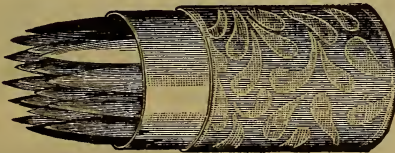
- 17,960. Crayon Holder, Brass, Extra Large, for Charcoal, etc.....each, .20
- 17,970. Crayon Holder, Brass, Wooden Handle, 5 inch..... " .10
- 17,980. Crayon Holder, Brass, with Rings..... " .08

CHARCOAL, FOR DRAWING.



- 18,100. Charcoal, extra fine Willow box, containing 50 sticks, .50
- 18,104. Charcoal, fine .. " " 50 " .40
- 18,108. Charcoal, for general use..... " " 50 " .25
- 18,120. Charcoal, extra large..... " " 50 " .45
- 18,130. Charcoal, Rouget, Nos. 1, 2, 3..... " " 25 " .50
- 18,140. Charcoal, Powdered.....package, .15

HARD PASTEL CRAYONS.



Best Quality,

Colored,

No. 18,180.

- 18,180. Hard Pastel Crayons, Best Quality, in Round Boxes.

Containing	48	36	24	18	12 Colors.
Each,	\$1.10	.80	.55	.40	.28,
- 18,190. Hard Pastel Crayons, Second Grade, in Round Boxes.

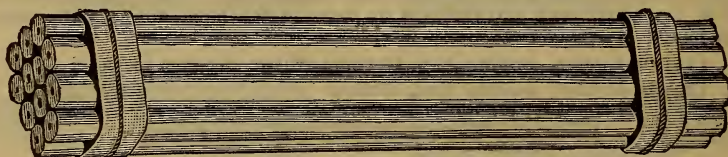
Containing	24	18	12 Colors.
Each,	.35	.25	.17

Monochromatic and Pastel Boards.—See Nos. 138A and 139.

LITHOGRAPHIC CRAYONS.

THESE CRAYONS CAN ALSO BE USED FOR BOLD, OFF-HAND DETAIL AND ORNAMENTAL DRAWING.

The wax contained in the Crayons prevents the lines from becoming blurred.



- 18,300. Lithographic Crayons, in Wood, Pencil Shape, 1, 2, 3.....dozen, \$1.00
- 18,310. Lithographic Crayons, Carriers, in Sticks, 1, 2, 3, Package containing 1 dozen..... .35
- 18,314. Lithographic Crayons, French, in Sticks, 1, 2, 3, Box containing 1 dozen.30

SCHOOL (CHALK) CRAYONS.

- 18,330. School Crayons, Assorted Colors, for Blackboard use. Box containing 1 gross..... \$1.25
- 18,334. School Crayons, White, for Blackboard use. Box cont'g 1 gross, Blackboards, see 19,500, etc. Blackboard Dividers, see 8,100. etc. .25

**ATOMIZERS,
For Fixing Crayon
Drawings,**



**By blowing a
Spray of
FIXATIVE
over the Drawing.**

No. 18,850.

- 18,850. Atomizer, Extra Quality, in Box.....each, \$1.12
- 18,856. Atomizer..... " .55
- 18,860. Fixative, Ready for use.....bottle, .50
- 18,864. Preparation for cleaning the tubes of Atomizers..... " .25

The Fixative should not be allowed to remain in the tube any length of time, as it will clog by hardening. A few sprays of the preparation will remove the Fixative from the inside of tube, if attended to promptly, and keep the Atomizer ready for immediate use.

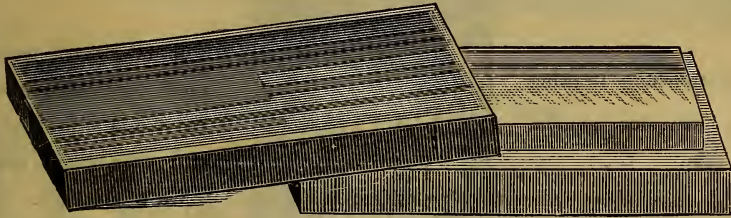
- 18,870. Soehnee's Composition, for fixing Crayon Drawings.....each 30
- J. B. Crocker's Hand Book,**
"On the Art of Crayon Portraiture in Black and White."..... " .35

This little book gives many useful hints on this class of work.

ARKANSAS OIL STONES,

Best Quality,

FOR SHARPENING DRAWING INSTRUMENTS, CUTLERY, ETC.



No. 19 000.

19,000. Arkansas Oil Stones, in Wooden Boxes, with Cover.

	8	7	6	5	4	3 inch.
Each,	\$2.80	2.50	2.25	2.00	1.50	1.00

19,010. Arkansas Oil Stones.

Each,	\$2.00 large.	1.50 medium.	1.00 small.
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No. 19,012.

19,012. Arkansas Desk Oil Stones, on Wood, with Handleeach, .75



No. 19,015.

19,015. Arkansas Oil Stone Slips, for Instruments, Knives, etc.

Each,	.50 large.	.40 medium.	.30 small.
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No. 19,020.

19,020. Arkansas Wedge Shape Oil Stones.....each, .35



No. 19,030.

19,030. Arkansas Pointed Oil Stones.....each, .25

“ PAR EXCELLENCE ” GUM.

For stretching Drawing Paper, and for general Office use.



It is strictly pure ; is made very thick, and can be diluted with water, and still retain binding qualities equal to mucilage.

19,110. “ PAR EXCELLENCE ” GUM.

Large bottle (large quart)	(List Price, \$1.12) each, \$1.00
Medium “ (large pint)	(List Price, .55) “ .50
Small “ (large half-pint)	(List Price, .28) “ .25

RESERVOIR GUM POTS.

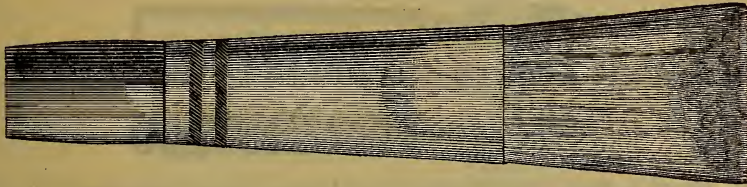


19,120. Reservoir Gum Pots, with Brush, for using “ Par Excellence ”
 Gum or Mucilage..... .55 large. .35 small.

MOUTH GLUE.

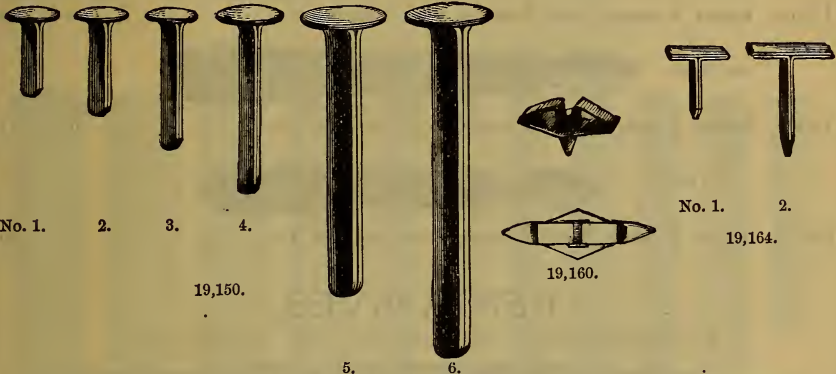
19,128. MOUTH GLUE, in thin cakesdozen, .40

**BRUSHES FOR "PAR EXCELLENCE" GUM,
Long Handles.**



Brushes for "Par Excellence" Gum. Same as No. 13,700.
Each, .20 large. .15 medium. .12 small.

PAPER FASTENERS.



No. 1.

2.

3.

4.

19,150.

5.

6.

No. 1.

2.

19,164.

19,160.

Above cuts represent full size of each number.

19,150. Paper Fasteners, Round Heads, best quality.

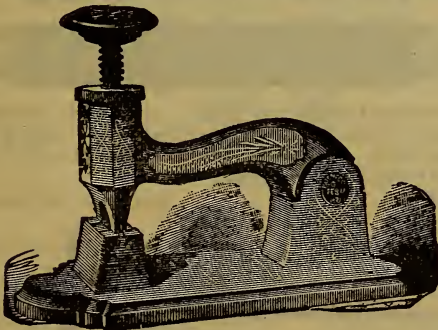
No.	6	5	4	3	2	1
Box,	\$1.12	.90	.55	.43	.38	.38

19,160. Paper Fasteners, "Excelsior Eyelet"..... box, .35

19,164. Paper Fasteners, "Flat Heads, No. 1, 2..... " .30

Specification Papers, see No. 19,620, etc.

SINGLE STROKE STAPLE BINDER.



No. 19,170.

WIRE BINDERS

for No. 19,170.



19,174.

The machine is easily manipulated. A wire is placed into the jaw, forced through the paper by a stroke of the hand, and is bent over at the same time

19,170. Single Stroke Staple Binder, complete with Wire Staple Binders, in Box..... each, \$2.75

19,174. Wire Staple Binders, Box containing 500 Binders..... .33

STEEL INK ERASERS.

- No. 19,200.  19,200. Roger & Son's Steel Eraser, White Handle, 5½ in., knife shape. . each65
- No. 19,202.  19,202. Roger & Son's Steel Eraser, Ebony Handle, 5½ in., knife shape, "55
- No. 19,204.  19,204. Roger & Son's Steel Eraser, White Handle, 5 in. "50
- No. 19,208.  19,208. Roger & Son's Steel Eraser, Cocoa Handle, 5 in. "45
- No. 19,210.  19,210. Roger & Son's Steel Eraser, Cocoa Handle, 4 in. "40

PEN KNIVES,

For Sharpening Pencils and for general use.



- 19,220. English Pen Knife, 4 blades. each, \$1.35
- 19,225. English Pen Knife, 3 " " 1.12
- 19,230. English Pen Knife, 2 " " .85

AUTOMATIC POCKET PEN KNIFE.



The knife blade is concealed within the handle. By a slight pressure on a knob at the end, the blade drops out to the required length, and is held in position by a self-acting clamp. The same pressure in an inverted position causes the blade to drop back into the handle.

- 19,240. Automatic Pocket Pen Knife. (List Price, .28) each, .25

PAPER



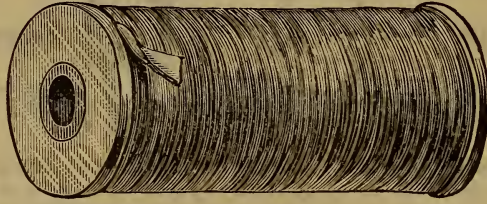
SHEARS.

- 19,250. Paper Shears, Best Quality, carefully ground :

Each,	12	10	9	8 inch.
	\$1.75	1.25	1.00	.80

PINK TAPE,

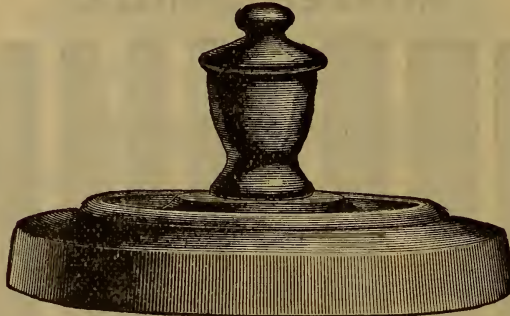
For Binding Documents, Specifications, etc.



19,390. **Pink Tape.**

Each.....,..... .55 large. .28 small spool.

IRON PAPER WEIGHTS.



- 19,404. **Iron Paper Weight**, Oblong, with Knob, about 3 lbs.....each, .80
- 19,408. **Iron Paper Weight**, Round, “ “ “ 1½ lbs..... “ .40
- 19,412. **Iron Paper Weight**, Round or Oval, with Knob, about ¾ lb :.... “ .25

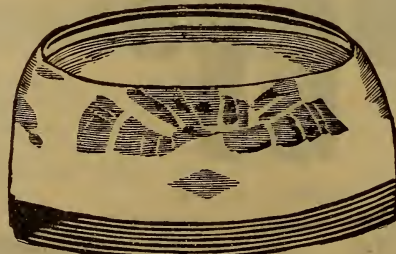
PAPER FOLDERS.

19,430. **Paper Folders**, convenient for pressing down the edges, when stretching drawing paper, etc.

Each..... .75 fine. .50 medium. .25 plain.

SPONGE

CUPS



AND

SPONGES.

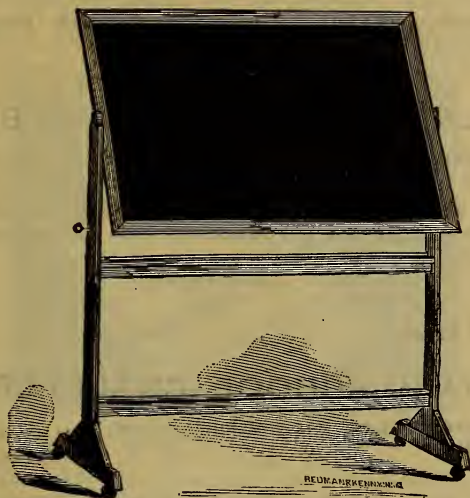
- 19,440. **Sponge Cups, Plain Glass, without Sponges.**
Each..... .25 large. .20 medium. .15 small.
 - 19,450. **Sponges for Sponge Cups**.... .25 “ .20 “ .15 “
 - 19,454. **Sponges for Wetting Drawing Papers, Stretching, etc.**
Fine Quality, various sizes.....from 25c. to \$1.00.
- Water Glasses, see No. 11,690, etc.

LIGHT WOODEN BLACKBOARDS,

Coated with Liquid Slating.

Sold at Manufacturer's Prices.

For laying out ornamental and other work, a board of this kind is often of great advantage. They are made very light but strong, and are easily transported or handled. Can be used on either side.



No. 19,500.

19,500. Blackboards Mounted on Revolving Rack, with Rollers.

Each.....	4×5	3½×4½	3×4	2½×3½	2×3 feet.
	\$18.00	15.50			13.00

19,510. Blackboard in Wooden Frame, to hang up.

Each.....	4×5	3½×4½	3×4	2½×3½	2×3 feet.
	\$12.00	9.50	7.00	5.25	2.50



No. 19,520.

PORTABLE
ROLLING

BLACK-
BOARDS.

19,520. Portable Rolling Blackboards, on Map Rollers.

Each.....	3×4	2½×3½	2×3 feet.
	\$2 00	1.50	1.00

See BLACKBOARDS AND MATERIALS continued on next page.

FLEXIBLE BLACKBOARD CLOTH.

Can be rolled up and carried like a drawing. For lectures, etc., or in cases where a board is only occasionally used, it supplies all requirements. Tack it to the wall, and it is ready for use.

- 19,524. **Flexible Blackboard Cloth**, 46 inches wide, **Both Sides Prepared.**
 Roll containing 12 yards..... \$24.00
 Yard..... 2.00
- 19,526. **Flexible Blackboard Cloth**, 36 inches wide, **One Side Prepared.**
 Roll containing 12 yards..... 15.00
 Yard..... 1.25

LIQUID SLATING & BLACKBOARD ERASERS.

19,530. **Liquid Slating**, for repainting old Blackboards, or painting on any wooden or plaster wall, with an ordinary paint brush. A quart will cover about 40 to 50 square feet with three coats, or about 100 square feet with one coat, and transform a white wall into an excellent Blackboard.

	Gallon.	Half Gallon.	Quart.	Pint Tin Can.
Each.....	\$6.00	3.25	1.75	1.00

19,540. **Blackboard Erasers**.....each, .25

BLACKBOARD SCHOOL (CHALK) CRAYONS.

- Same as 18,330, **Assorted Colors**, Box containing 1 gross..... \$1.25
- “ 18,334, **White**, “ “ 1 “ 25

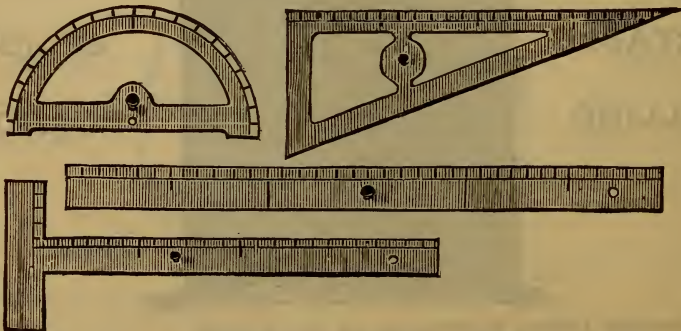
WOODEN BLACKBOARD DIVIDERS.



Wooden Blackboard Dividers, Same as No. 8,100.

	30	24	18	15 inch.
Each.....	\$2.00	1.60	1.25	1.00

WOODEN BLACKBOARD DRAWING SET.



Wooden Blackboard Drawing Set, Same as No. 8,120, consisting of 24 inch T Square, 36 inch Straight Edge, 24 inch Triangle, all divided into inches, and 15½ inch Protractor.....set, \$5.00

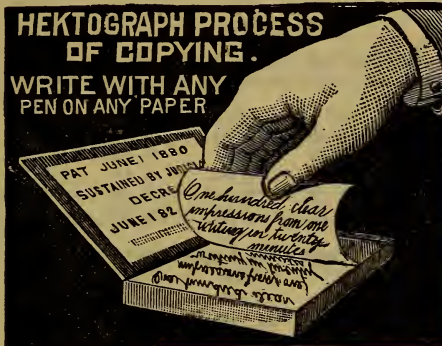
HEKTOGRAPHS,

FOR

Copying Drawings, Specifications, Legal Documents, Letters, Etc.

Fifty to One Hundred Copies can be produced from the Original.

SOLD AT MANUFACTURER'S PRICES.



Hektographs are of great service for copying Drawings, Specifications, or any written matter rapidly. The original is carefully drawn or written with the prepared ink; moisten the preparation with a sponge or brush, and remove the superfluous water by blotting with ordinary newspapers (not blotting paper); the original is then placed on the adhesive surface (face down), and removed after a few minutes. The greater portion of the highly concentrated ink remains on the pad, from which numerous copies can be produced by successively placing sheets of white paper on the adhesive surface.

The pad is cleaned with a sponge saturated with warm or cold water; warm water preferred.

EXTRA LARGE HEKTOGRAPHS,

FOR COPYING DRAWINGS,

Or numerous pages of written matter.

Any size made to order at 5 cents per square inch of surface.

19,600. Hektographs, Large Sizes, Strong Cases, Extra Deep Filling.

	36×42	30×36	27×40	26×34	23×31	20×24 inches.
Each,	\$75.60	54.00	54.00	44.20	35.65	24.00

SMALL HEKTOGRAPHS.

19,606. Hektographs, Small Sizes, Deep Filling, for Copying Letters, Specifications, etc.

Folio Size, 12×18 inches.....	each, \$9.50
Specification or Legal Cap Size, 10×15 inches.....	" 8.00
Large Letter Size, 10×12½ inches.....	" 6.00
Large Note Size 6¼×10 inches.....	" 4.00

Hektographs are also made in other grades.

TRAYS REFILLED AT HALF PRICE.

19,608. Hektograph Composition, put up in Tin Cans for Export, with directions for use..... pound, \$1.00

19,610. Hektograph Inks, Prepared Ready for Use. Violet, Carmine, Blue, Green..... bottle, .25

HEKTOGRAPH PAPERS, see next page.

HEKTOGRAPH PAPERS.

FOR COPYING DRAWINGS, WRITING, ETC.

“VULCAN” Hektograph Roll Papers, Best Quality, Smooth Finish.

	100	50	30	20	10 Yard Roll.
42 inches wide,	\$17.50	8.75	6.00	4.25	2.20
36 “ “	15.30	7.65	5.00	3.25	1.85
27 “ “	11.50	5.75	3.70	2.50	1.35
20 “ “	9.00	4.50	3.00	2.15	1.15

“DRAGON” Hektograph Roll Papers, Extra Thin, Extra Tough.
Can be folded repeatedly without breaking, and is a desirable paper for mailing, causing a saving on postage.

	100	50	30	20	10 Yard Roll.
42 inches wide,	\$17.50	8.75	5.95	4.25	2.20
36 “ “	15.30	7.65	4.80	3.25	1.85
30 “ “	13.00	6.50	4.15	2.85	1.50
27 “ “	11.50	5.75	3.60	2.50	1.35
20 “ “	9.00	4.50	2.85	1.15	1.15

“ARGAND” Hektograph Roll Paper, Smooth Finish, Medium Quality.

	200	100	50	30	20 Yard Roll.
36 inches wide,	\$15.50	7.75	4.00	2.50	1.75

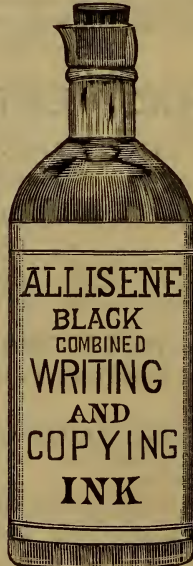
Hektograph Sheet Papers, Smooth Finish.

Imperial, 23×31 in., quire, \$1.50 Super Royal, 22×28 in., quire, \$1.00

Other sizes furnished at short notice.

Papers in Pads, Nos. 19,660-19,670, are suitable for Hektograph Copies.

“ALLISENE” WRITING INK.



**COPIES
CLEARLY.**

**TURNS
DEEP BLACK.**

19,615. **“ALLISENE” Combined Writing and Copying Ink.**

This Ink flows evenly, copies clearly, turns deep black and possesses all the good qualities of a first-class ink.

.85 large (Quart)

.50 medium (Pint)

.35 small (½ Pint) Bottle.

SPECIFICATION PAPERS.

19,620.	NUMBERED Specification Legal Cap, Extra Large Size, 8½×14 inches,			
	best quality. Each page contains lines numbered consecutively from 1 to 32, which greatly assists in referring to any portion of specification.			
	Package, containing 1 Ream (480 sheets).....			\$5.50
	“ “ ½ “			1.50
	Quire.....			.33
19,624.	Specification Legal Cap, Extra Quality.			
	Ream.....	\$4.75 extra heavy.	4.25 heavy.	3.75 medium.
	Package cont'g 5 quires.	1.25 “	1.12 “	1.00 “

PRINTED COVERS FOR SPECIFICATIONS, SEE 19,700-19,702.

PRINTED SPECIFICATIONS

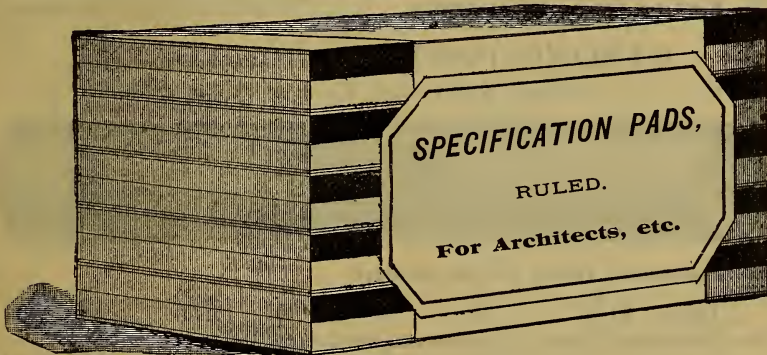
Are in the form of regular Specifications, giving a printed heading for every part of the work connected with a building, with blank space opposite for extra remarks.

19,635.	Printed Specifications, LARGE. For structures \$5,000 and over..	each,	.50
19,637.	Printed Specifications, SMALL. For structures less than \$5,000..	“	.40

PRINTED BUILDING AGREEMENTS.

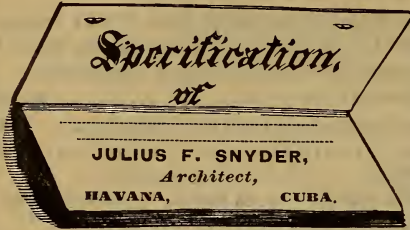
19,640.	Printed Building Agreements.....	dozen,	40
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WRITING AND FIGURING PADS.



19,660.	Pads, White Paper, Extra Quality, Ruled.			
	Specification or Legal Cap size	dozen, \$4.25	each,	.38
	Large Letter Size	“ 3.60	“	.33
	Large Note Size	“ 2.15	“	.20
19,670.	Pads, White Paper, Good Quality, not Ruled.			
	Large Letter Size.....	“ 2.85	“	.28
	Large Note Size	“ 1.80	“	.17
19,680.	Pads, Light Buff Paper, Ruled.			
	Specification or Legal Cap Size, extra thick.....	“ 5.50	“	.50
	Specification or Legal Cap Size.....	“ 3.00	“	.28
	Large Letter Size.....	“ 2.40	“	.22
	Large Note Size	“ 1.20	“	.12
19,690.	Pads, Light Buff Paper, not Ruled.			
	Large Letter Size.....	“ 1.80	“	.17
	Large Note Size	“ 1.10	“	.10

PRINTED COVERS FOR SPECIFICATIONS.



Part of inside view of cover.



Part of outside view of cover.

19,700. Printed Covers for Written Specifications, large enough to cover back and front of sheets..... \$2.20 gross package. .20 dozen.

19,702. Printed Covers for Written Specifications, with Purchaser's Name, Business and Address Printed on each.....gross, \$2 95

When ordering Specification Covers, send sample sheet of the paper for which covers are required, or state exact size of sheet.

SPECIFICATION LEGAL CAP, SEE PREVIOUS PAGE.

Paper Fasteners, see Nos. 19,150 to 19,174.

BLOTTING PAPER.

19,720. Blotting Paper in Large Sheets, Extra Quality, Royal, 19x24 inchesquire, \$2.00 sheet, .10

19,722. Blotting Paper, Extra Qualitysmall package of one dozen, .10

STRONG PASTEBOARD TUBES,

For Mailing Drawings.



19,740. Pasteboard Tubes, 2 inch diameter.
 38 30 24 18 15 12 inches long.
 Dozen, \$1.00 .80 .60 .50 .40 .30

19,750. Pasteboard Tubes, 1½ inch diameter.
 38 30 24 18 15 12 inches long.
 Dozen, .80 .65 .50 .40 .30 .25

Other sizes furnished at short notice.

TIN BOXES, WITH SLIP COVER,

For Tracing Cloth, Drawings, etc.



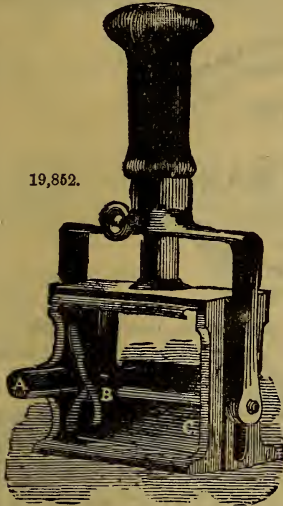
19,770. Tin Boxes, with Slip Cover, 3½ inch diameter, to keep Tracing Cloth and Paper free from moisture, etc.
 60 50 45 40 35 31 25 inches long.
 Each, \$3.30 3.00 2 60 2 20 1 80 1.40 1.00

Other sizes furnished at short notice.

RUBBER STAMPS.

In ordering Rubber Stamps, state the Catalogue Number or describe as definitely as possible.
 ANY SIZE FURNISHED AT SHORT NOTICE.

SELF-INKING STAMPS WITH RUBBER DIES.



19,852.

RECEIVED PAYMENT

JULY 1 1885

E. G. SOLTMANN

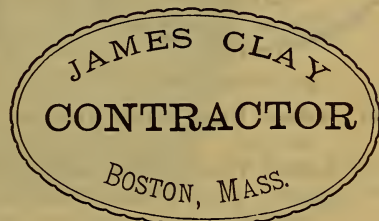
Per.....

DRAWING EXAMINED
 AND APPROVED

JUNE 1 1885

JOHN SMITH

Per.....



These stamps are made of brass, nickel plated, and have polished wooden handles. In using this stamp it requires a firm downward pressure (*not a sudden jar*), which gives the impression, and on releasing it, it revolves back, inks the die, and is immediately ready for use.

DATING STAMPS.

- 19,850. Self-Inking **DATING Stamp**, with Rubber Die, $1\frac{3}{4} \times 2\frac{1}{2}$ inches, containing several lines of descriptive matter, including box of rubber dating type (good for ten years) and can of ink. each, \$7.75
- 19,852. Self-Inking **DATING Stamp**, same as No. 19,850, with Rubber Die, $1\frac{1}{4} \times 2\frac{1}{8}$ inches " 6.60
- 19,854. Self-Inking **DATING Stamp**, same as No. 19,850, with Rubber Die, $1\frac{1}{8} \times 1\frac{1}{2}$ inches. " 5.50

STAMPS WITH BUSINESS CARD.

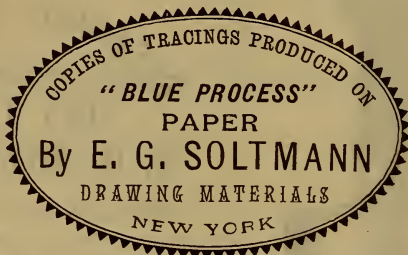
- 19,860. Self-Inking **Stamp**, with Rubber Die, $1\frac{3}{4} \times 2\frac{1}{2}$ inches, containing several lines of descriptive matter, including box of rubber dating type (good for ten years) and can of ink. each, \$6.60
- 19,862. Self-Inking **Stamp**, same as No. 19,860, with Rubber Die, $1\frac{1}{4} \times 2\frac{1}{8}$ inches " 5.50
- 19,864. Self-Inking **Stamp**, same as No. 19,860, with Rubber Die, $1\frac{1}{8} \times 1\frac{1}{2}$ inches. " 4.40

RUBBER HAND STAMPS.

CONTAINING PURCHASER'S BUSINESS CARD OR OTHER LETTERING.

ANY SIZE FURNISHED AT SHORT NOTICE.

Style of Descriptive Matter similar to following samples.

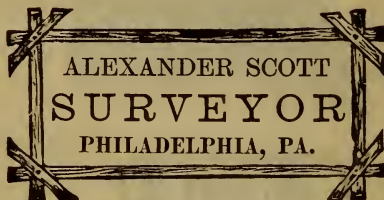


Nos. 19,890. 19,892.

- 19,890. Rubber Hand Stamp, Complete, in wooden Case, including Ink and Pad.....each, \$2.50
- 19,892. Rubber Hand Stamp, only, without Case, etc..... " 2.00



Nos. 19,894. 19,895.

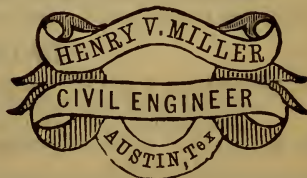


19,896. 19,897.

- 19,894. Rubber Hand Stamp, Complete, in wooden Case, including Ink and Pad.....each, \$2.00
- 19,895. Rubber Hand Stamp, only, without Case, etc..... " 1.50
- 19,896. Rubber Hand Stamp, Complete, in wooden Case, including Ink and Pad " 1.75
- 19,897. Rubber Hand Stamp, only, without Case, etc..... " 1.25



Nos. 19,904. 19,906.



19,912. 19,914.

- 19,904. Rubber Hand Stamp, Complete, in wooden Case, including Ink and Pad.....each, \$2.00
- 19,906. Rubber Hand Stamp, only, without Case, etc..... " 1.50
- 19,912. Rubber Hand Stamp, Complete, in wooden Case, including Ink and Pad..... " 2.00
- 19,914. Rubber Hand Stamp, only, without Case, etc " 1.50

RUBBER HAND STAMPS (continued).

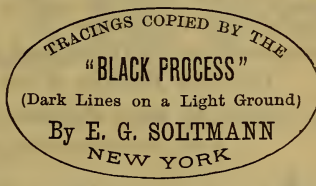
CONTAINING PURCHASER'S BUSINESS CARD OR OTHER LETTERING.

ANY SIZE FURNISHED AT SHORT NOTICE.

Style of Descriptive Matter similar to following Samples.



19,922,
19,924.



19,928.
19,930.

- 19,922. Rubber Hand Stamp, Complete, in wooden Case, includ'g Ink and Pad . . . each, \$1.50
- 19,924. Rubber Hand Stamp, only, without Case, etc. " 1.00
- 19,928. Rubber Hand Stamp, Complete, in wooden Case, includ'g Ink and Pad . . . " 1.50
- 19,930. Rubber Hand Stamp, only, without Case, etc. " 1.00

E. G. SOLTSMANN
DRAWING MATERIALS
New York

RUBBER POCKET STAMP.

Return
Drawing to
E. A. WHITE

A. J. BLACK
BUILDER
Denver, Col.

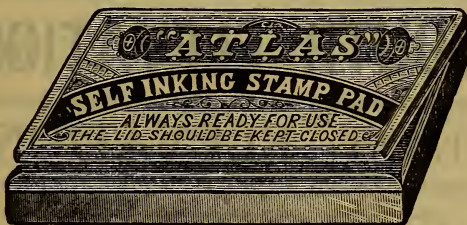


J. B. SNOW
ARCHITECT
New Orleans, La.

No. 19,940.

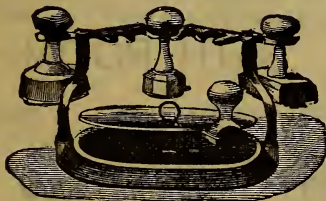
- 19,940. Rubber Pocket Stamp, self-inking, with self-acting spring, arranged to be attached to a pencil. (List Price, \$1.12) each, \$1.00

No. 19,946.



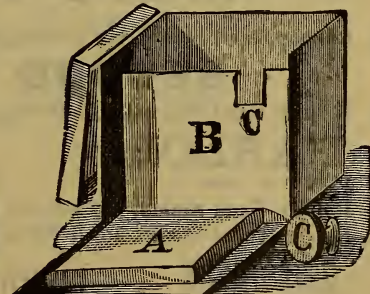
- 19,946. "Atlas" Self-Inking Stamp Pad, consisting of a hinged metal case, containing the prepared Pad. (List Price, .55) each, .50

19,950.



Iron Stamp Rack, with Pad.

- 19,950. Iron Stamp Rack, to hold 9 Rubber Stamps, incl. prepared Pad, with cover. . . each, \$1.50
- 19,952. Iron Stamp Rack, to hold 5 Rubber Stamps, incl. prepared Pad, with cover. . . " 1.00
- 19,954. Wooden, Hinged Box, for Rubber Stamps, with Pad and Ink. (List Price, .55) " .50



19,954.

Style of Box and Pad for "Complete" Stamps.

RUBBER STAMP INKS.

- 19,958. Prepared Inks for Rubber Stamps, Red, Blue, Violet, Black. . . bottle, .25

RUBBER HAND STAMPS *(continued)*.

The following collection of stamps represents a few of the oft occurring names and descriptions of Drawings; for ordinary purposes the impression produced by the stamp will answer; and in cases where tracings are to be copied by the "Blue Process," or other methods, the lettering can easily be outlined in India Ink, which saves the labor and expense of designing the letters.

THESE SPECIMENS REPRESENT THE SIZES AND STYLES OF LETTERING OF EACH NUMBER.

Any other Wording of the same Size at the same Price.

Order Stamps by their Numbers, and state the Description required.

EACH STAMP HAS A POLISHED HARDWOOD HANDLE.

Front Elevation

19,960. Rubber Hand Stamp, any lettering of above style and size each, \$1.10

SIDE ELEVATION

19,962. Rubber Hand Stamp, any lettering of above style and size each, \$1.00

West Elevation

19,664. Rubber Hand Stamp, any lettering of above style and size each, \$1.00

SOUTH ELEVATION

19,970. Rubber Hand Stamp, any lettering of above style and size each, .80

EAST ELEVATION

19,974. Rubber Hand Stamp, any lettering of above style and size each, .70

SECTION

19,976. Rubber Hand Stamp, any lettering of above style and size each, .70

SECOND FLOOR.

19,982. Rubber Hand Stamp, any lettering of above style and size each, .60

PARLOR

BATH ROOM

No. 19,986

19,988.

19,986. Rubber Hand Stamp, any lettering of above style and size each, .50

19,988. Rubber Hand Stamp, any lettering of above style and size " .50

BED ROOM

LIBRARY

DINING ROOM

No. 19,992.

19,994.

19,996.

19,992. Rubber Hand Stamp, any lettering of above style and size each, .40

19,994. Rubber Hand Stamp, any lettering of above style and size " .40

19,996. Rubber Hand Stamp, any lettering of above style and size " .40

Above prices are for Stamps only. Box No. 19,954, with Pad and Ink, 50c. extra.

OTHER SIZES AND STYLES FURNISHED AT SHORT NOTICE.

ALPHABETS

20,102.	Christman's Plain, Fancy and Illuminated, Complete, in Portfolio, each,	\$7.50
20,104.	Woodward's Ornamental and Fancy Alphabets.....	“ 6.00
20,106.	Klimsch & Co's Monograms, 13 parts.....	“ 5.20
20,109.	Prang's Standard Alphabets, partly printed in colors, including Topographical Signs, Borders, Corners, etc.....	“ 5.00
20,112.	Copley's Plain and Ornamental Alphabets.....	“ 3.00
20,120.	Dearborne's Scrolls, Ornaments, Monograms, Crests, etc.....	“ 2.50
20,124.	Dearborne's American Text-Book for Letters.....	“ 2.50
20,128.	Delamotte's Plain and Ornamental Alphabets.....	“ 2.00
20,132.	Ames' Alphabets.....	“ 1.50
20,136.	McLee's Alphabets, Small..... (List Price, \$1.12)	“ 1.00
20,140.	Blondeau's Alphabets..... (List Price, .85)	“ .75
20,144.	Plain and Ornamental Alphabets.....	“ .50
20,148.	Small Collections of Alphabets, 4 numbers..... (List Price, .28)	“ .25
20,152.	Round Writing Alphabets..... (List Price, .28)	“ .25
	Round Writing Book (same as 17,622).....	“ .60

Round Writing Pens, see 17,560, etc.

Other Alphabets furnished at publisher's prices.

DRAWING COPIES AND STUDIES.

20,210. **HERMES' "Drawing Teacher," 125 Numbers.** Each number contains 4 sheets $8\frac{3}{4} \times 11\frac{1}{2}$ inches.....each number, .50
Assorted as follows:

<i>Landscapes.</i>	<i>Human Figures and Heads.</i>
<i>Flowers and Fruit.</i>	<i>Ornaments.</i>
<i>Animals.</i>	<i>Foliage, Trees, etc.</i>

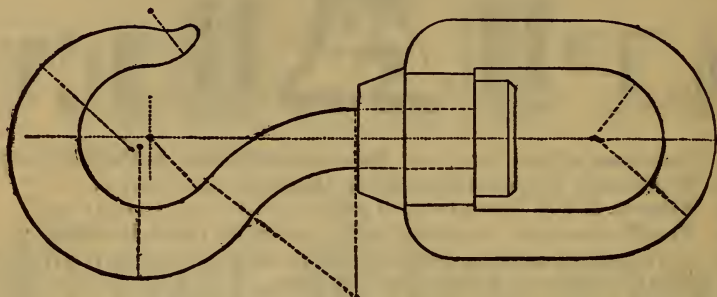
Above studies are all shaded, and are intended for fairly advanced students.

20,250. **HERMES' "Drawing School," 250 Numbers.** Each number contains 6 sheets $5\frac{3}{4} \times 8\frac{3}{4}$ inches..... each number, .25
Assorted as follows:

<i>Rudiments for Beginners</i> ... Outline.	<i>Objects for Beginners</i> Outline.
“ “ “ ..Light shading.	“ “ “Light shading.
<i>Landscapes</i> Outline.	<i>Ornaments</i> Outline.
“Light shading.	“Light shading.
“Deep shading.	“Deep shading.
<i>Human Figures and Heads</i> ..Outline.	<i>Flowers</i> Outline.
“ “ “ “ ..Light shading.	“Light shading.
“ “ “ “ ..Deep shading.	“Deep shading.
<i>Animals</i>.....Outline.	<i>Trees and Foliage, Fruit, etc.</i> Outline.
“Light shading.	“ “ “ “ “ Light shading.
“Deep shading.	“ “ “ “ “ Deep shading.

The "Outline," and "Light Shading," are for beginners; the "Deep Shading," for advanced students.

VERE FOSTER'S DRAWING COPIES.



SPECIMEN OF PORTION OF A PLATE IN MECHANICAL DRAWING EDITION.

COMPLETE ASSORTMENT.

- 20,300. **VERE FOSTER'S** Complete Assortment for Pencil Drawing, containing Nos. 1 to 12..... complete assortment, \$4.80

COMPLETE EDITIONS.

- 20,310. **VERE FOSTER'S** Complete Editions on the following subjects :

Part.

1. Elementary.
2. Objects.
3. Plants and Flowers.
4. Ornaments.
5. Trees in Black.
6. Landscape in Black.

Part.

7. Marine.
8. Cattle, Poultry, Birds, etc.
9. Horses, Wild Animals, Dogs, etc.
10. Human Figure
11. Geometry.
12. Mechanical Drawing.

each edition, .40

PAMPHLET EDITIONS.

- 20,330. **VERE FOSTER'S** Small Pamphlet Editions on the following subjects :

A. Elementary,	2 numbers.	J. Trees in Black,	4 numbers.
B. Objects, Simple,	2 "	K. Landscapes in Black,	4 "
C. " Curved Lines,	2 "	M. Marine in Black.	4 "
D. Leaves,	2 "	O. Animals.	10 "
E. Plants,	2 "	Q. Human Figure.	4 "
G. Flowers,	2 "	R. Geometry.	3 "
I. Ornaments,	4 "	T. Mechanical Drawing,	6 "

In paper cover..... each number, .10

WATER COLOR EDITIONS.

- 20,350. **VERE FOSTER'S** Water Color Copy Book, Complete Edition, cont. Animal, Marine, Flowers and Illuminating, in 4 parts... each part, .80

- 20,360. **VERE FOSTER'S** Water Color Copy Books, Pamphlet Edition, on the following subjects:

Animals, 4 numbers.

Flowers, 4 numbers.

Marine, 4 "

Illuminating, 4 numbers.

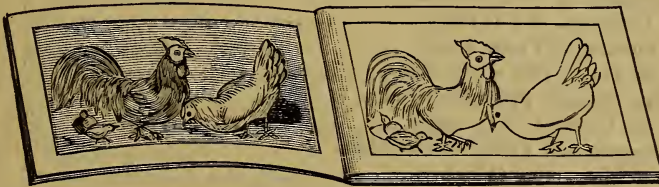
each number, .20

BARTHOLOMEW'S DRAWING COPIES.

- 20,400. High School Course No. 18. Treats* of *Mechanical Perspective*, from Plans and Elevations.....each, .33
- 20,410. High School Course, Nos. 14, 15, 16, 17.....each number, .20
 Book No. 14. Treats of *Geometrical and Mechanical Drawing*, 60 problems.
 " 15. Treats of *Geometrical and Mechanical Drawing*, 56 problems.
 " 16. Treats of *Model and Object Drawing* in outline.
 " 17. " " " " in light and shade.
- 20,430. Grammar School Course, Nos. 5, 6, 7, 8, 9, 10, 11, 12, 13..each number, .15
 Book No. 5. Treats of *The Pentagon*, with reviews on subjects in preceding books.
 " 6. Treats of *The Octagon*, with reviews on subjects in preceding books.
 " 7. Treats of *The Egg Oval* and its combinations.
 " 8. " *The Ellipse* " " "
 " 9. " *Natural Sprays of Foliage*, with reviews on subjects in preceding books.
 " 10. Treats of *The Equable Spiral* and its application to design.
 " 11. Treats of *The Variable Spiral* and its application to design.
 " 12. Treats of *Original Design* and the conventionalization of plant forms.
 " 13. Treats of *Original Design* and the conventionalization of plant forms.
- 20,450. Free Hand Tracing. Very simple for first beginners.
 Nos. 1, 2, 3, 4.....each number, .08
 Book No. 1. Treats of *Angles* and their combinations.
 " 2. " *Triangles* " "
 " 3. " *The Circle* and its "
 " 4. " *Reversed Curve* and its "

COLORED STUDIES FOR BEGINNERS.

In Books.



Painted on one side, the other side represents the same picture not painted, and is to be colored like the original.

- 20,470. Colored Studies, Extra Large Coloring Exercises.....each book, .90
 20,474. Colored Studies, Large "Pretty Pictures"..... " .75
 20,478. Colored Studies, "Bouquets"..... " .40
 20,482. Colored Studies, "Little Flower Painter"..... " .30
 20,486. Colored Studies, "Little Painter"..... " .25
 20,490. Colored Studies, "Little Artist"..... " .15

Paint or Water Colors in Boxes, see No. 12,350, etc.

ARCHITECTURAL & MECHANICAL STUDIES.

20,500	PALLISER'S USEFUL DETAILS , consists of 40 plates, 22×26 inches, showing various descriptions of Modern Architectural Details, and contains about 1,000 drawings.....	each, \$2.00
20,520.	Colored Architectural and Mechanical Designs of various descriptions. 125 plates, 12×19 inches.....	each plate, .45
20,540.	Mechanical and Architectural Linear Drawings , 100 plates, 12×19 inches.....	“ .10
20,560.	Linear Drawing , for Schools, Carpenters, Machinists, etc. 100 plates, 10×13 inches.....	“ .05

VARIOUS STUDIES,

For Pencil, Crayon, Charcoal and Color.

20,600.	Landscapes from Nature , for Pencil or Crayon, by Ciceri. 50 Plates, 13 × 19 inches.....	each plate, .40
20,610.	Landscapes from Nature , in two Crayons, by Jacotet and Vanderburgh. 62 Plates, 12 × 19 inches.....	“ .35
20,620.	Landscapes from Nature , by Calame. 200 Plates, 10½ × 14 inches.....	“ .20
20,640.	Marine Studies. 96 Plates, 9½ × 12½ inches.....	“ .15
20,660.	Figures, Heads, etc. , by Julien, drawn after the antique. 50 Plates, 14 × 18 inches.....	“ .35
20,670.	Figures, Heads, Features, etc. , from Life, for general Crayon Drawing. 96 Plates, 13½ × 20 inches.....	“ .25
20,680.	Figures, Heads, Features, etc. , by Jullien. 150 Plates, 11 × 14 inches.....	“ .20
20,690.	Figures, Heads, Features, etc. , Elementary Studies. 96 Plates, 10 × 13 inches.....	“ .15
20,720.	Animals by Gengembre, in two Crayons. 40 Plates, 12 × 19 inches.....	“ .45
20,730.	Animals , by Rosa Bonheur. 72 Plates, 14 × 19 inches.....	“ .45
20,740.	Animals , by Victor Adam. 60 Plates, 12½ × 19½ inches.....	“ .30
20,760.	Flowers and Fruit , by Grobon. 112 Plates, 11 × 14 inches.....	“ .25
20,770.	Flowers and Fruit , various kinds. 40 Plates, 10 × 14 inches.....	“ .20
20,774.	Flowers and Fruit, Elaborately Colored. 40 Plates, 10 × 14 inches.....	“ .50
20,800.	Ornaments , by Jullien, in two Crayons. 24 Plates, 12½ × 19½ inches.....	“ .35
20,810.	Ornaments , by Carot. 96 Plates, 12½ × 17½ inches..... (This work has been adopted by the schools in Paris.)	“ .30
20,820.	Ornaments , by Carot, Progressive Course. 120 Plates, 12½ × 18 inches.....	“ .25

WINSOR & NEWTON'S HAND BOOKS ON ART.

No. 22,200.....EACH, FORTY CENTS.

Books can be Ordered by their Numbers.

50. Art of Botanical Drawing By F. W. Burbidge.
 51. Art of Figure Drawing..... By C. H. Weigall.
 52. Art of Flower Painting..... By M. Duffield.
 53. Art of Landscape Painting in Water Colors..... By Thomas Rowbotham.
 55. Art of Marine Painting in Water Colors By J. W. Carmichael.
 56. Art of Miniature Painting By Ch. W. Day.
 57. Art of Mural Decoration By T. G. Goodwin.
 58. Art of Painting and Drawing in Colored Crayons..... By H. Murray.
 59. Art of Portrait Painting in Water Colors By M. Merrifield.
 61. Art of Sketching from Nature By Th. L. Rowbotham.
 62. Art of Transparent Painting on Glass By Ed. Groom.
 63. Art of Wood Engraving By Th. Gilks.
 64. Artistic Anatomy of Cattle and Sheep..... By B. W. Hawkins.
 65. Artistic Anatomy of Dog and Deer By B. W. Hawkins.
 66. Artistic Anatomy of the Horse..... By B. W. Hawkins.
 67. Artistic Anatomy of the Human Figure..... By H. Warren.
 68. Artistic Treatise of the Human Figure..... By H. Warren.
 69. Drawing Models and their Uses..... By J. D. Harding.
 70. Elements of Perspective..... By A. Penley.
 71. Half-Hour Lectures on Drawing and Painting..... By H. Warren.
 72. Hints of Sketching in Water Colors from Nature..... By Thos. Hatton.
 74. Manual of Illumination..... By J. J. Laing.
 75. Manual of Illumination, Companion to..... By J. J. Laing.
 76. Principles of Coloring in Painting..... By C. Martel.
 77. Principles of Form in Ornamental Art..... By C. Martel.
 78. System of Water Color Painting..... By A. Penley.
 79. Transparency Painting on Linen..... By W. Williams.


GEORGE ROWNEY & CO.'S BOOKS ON ART.

No. 22,300... ..EACH, FORTY CENTS.

Books can be ordered by their numbers.

82. Guide to Animal Drawing By C. H. Weigall.
 83. Guide to Figure Drawing..... By G. E. Hicks.
 84. Guide to Figure Painting By S. T. Whiteford.
 85. Guide to Flower Painting in Water Colors..... By G. Rosenberg.
 86. Guide to Light and Shade Drawing..... By Mrs. Merrifield.
 87. Guide to Miniature Painting and Coloring Photographs.... By J. S. Templeton.
 88. Guide to Painting on Glass By H. Bielfeld.
 89. Guide to Pencil and Chalk Drawing By G. Harley.
 90. Guide to Pictorial Art..... By H. O'Neil.
 91. Guide to Pictorial Perspective By B. R. Green.
 92. Guide to Sketching from Nature in Water Colors By L. C. Miles.
 93. Guide to Water Color Painting..... By R. P. Noble.
 94. Hints on Sketching from Nature. Part I..... By N. E. Green.
 95. Hints on Sketching from Nature. " II..... By N. E. Green.
 96. Hints on Sketching from Nature. " III..... By N. E. Green.
 97. Hints for Sketching Trees from Nature in Water Colors.... By Th. Hatton.
 98. Principles of Perspective..... By H. Lewis.

SCIENTIFIC BOOKS.

 Any Book will be sent on receipt of price quoted.

The following Lists of Books contain the majority of the principal publications on various Scientific subjects, more or less connected with Drawing.

In order to have the collection as complete as possible, some works have been included which are scarce and difficult to procure, or are only imported when ordered.

The books are classified under the various headings, and are arranged in the following rotation:

	PAGES
Architecture, including works on Buildings of all descriptions.....	208-215
Building and Building Material.....	215-217
Bridge Building, Roofs, Trusses, Strains, Girders, etc.....	217-219
Carpentry, Stair Building, Wood Work, Lumber, etc.....	219-221
Civil Engineering and Surveying, Works on Railroads, etc.....	221-225
Drawing, Painting, and Art in general.....	225-229
Electricity, Telephone, and all Electric Appliances.....	229-233
Engines, Boilers, and Steam Engineering.....	233-236
Furniture and Decoration.....	236-237
Mechanics, including Machinery, Mill Building and Mechanical Engineering.....	237-242
Mathematical and Engineering Instruments.....	242-243
Reference Books, <i>i. e.</i> , Cyclopædias, Recipes, etc.....	243-244
Shipbuilding and Marine Engineering.....	244-246
Various Scientific Subjects, including Logarithms, Geometry, Trigonometry, Algebra, Calculus, Conic Sections, Weights and Measures, etc.....	246-250
Water Supplies, Hydraulics, Hydrostatics, Acoustics, Sanitary Drainage, Heating and Ventilation, etc.....	250-253

COMPLETE INDEX OF AUTHORS, CONTRIBUTORS, COMPILERS, EDITORS, Etc., Page 254.

ARCHITECTURE.

Including Works on Buildings of all Descriptions.

	Each
ABERDEEN, Earl of.— Grecian Architecture. (Weale's Series).....	4.40
ADAMS.— Artists' Homes. A portfolio of Drawings, including the houses of several eminent Painters, Sculptors and Architects. Folio. Thirty-one plates.....	\$10.00
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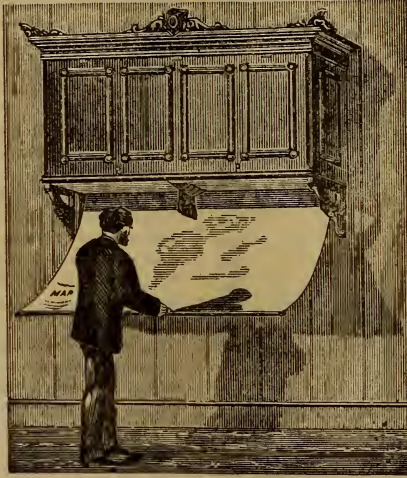
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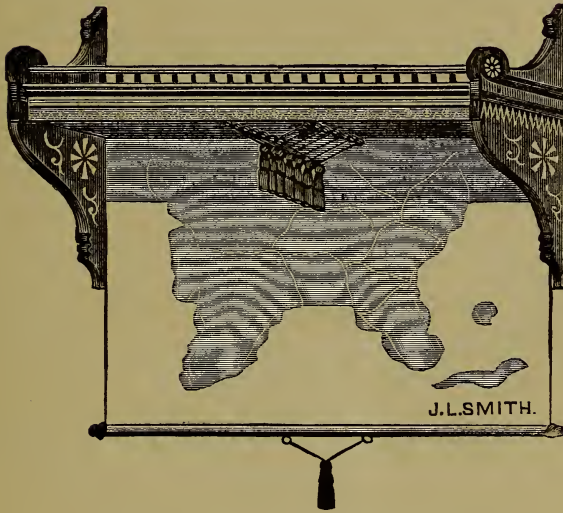
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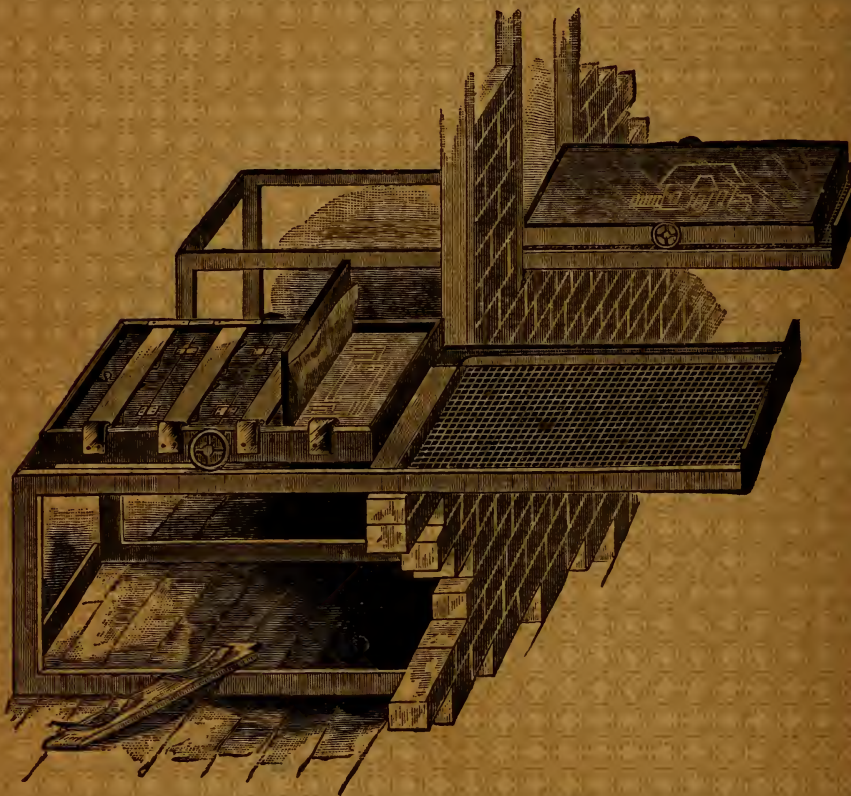
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