# PRICED AND ILLUSTRATED <br> <br> CATALOGUE 

 <br> <br> CATALOGUE}

OF


## ARTISTS' MATERIALS,

SWISS, GRRMMAN, FRRNCH AND ALTMEMADRR'S
Mathematical Instruments, AND

DRAWING STATIONERY AND MATERIALS, for

ARCHITECTS, ENGINEERS AND SURVEYORS,

```
IMPORTED AND SOLD BY
```

ㅍ. C. FIASTINGS \& CO.,
54 and 56 Cornhill, Boston.

## NOTICE.

When goods are forwarded by express with C.O.D. (collect on delivery) bill, the c.xpress company's charge for collecting. moncy and returning same weill be added to said bill.

The best and surcst method of remitting moncy is by bank draft or post-office order, made payable to us.

Goods will be packed with the utmost care; but all packagcs must be at the risk of the purchascr after leaving ourhands, except under special asrecment.
 in Quantities.

## F. C. HASTINGS \& CO.,

54 \& 56 CORNHILL, BOSTON.

THE HENRT FR.ANCIS du PONT WINTERTHUR MUSEUM LIBRARIES

The Waldron Phoenix Belknap, Jr. Research Library of American Painting

# Digitized by the Internet Archive in 2010 with funding from Lyrasis Members and Sloan Foundation 

"Prize Medal Awarded." Paris Universal Exhibition, 1867.


## GEO. ROWNEY \& CO.

Have the pleasure to announce the completion of their

## NEIV SYSTEM OF GRINDING COLORS BY MACHINERY,

Which enables them to supply Artists' Colors in Oil, Water, or Powder, perfectly fine, and at the same prices as hitherto charged for colors less finely ground.

Messrs. G. R. \& Co. feel assured the OIL COLORS ground by their improved process will be found to be finer, brighter, less oily, and to dry quicker, than any others at present manufactured; and that their WATER COLORS, prepared by the same process, will prove to be finer, brighter, and to float more evenly without granulation, than any other colors hitherto produced.

They therefore solicit a trial in full confidence of giving satisfaction.

The most eminent artists and professors of painting in Europe and America recommend GEO. ROWNEY \& CO.'S OIL AND WATER COLORS as the finest ground, and most brilliant manufactured.

# GEORGE ROWNEY \& CO.'S 

- AND -


## WINSOR \& NEWTON'S

## WATER COLORS.

HARD COLORS IN CAKES, OR MOIST IN CHINA PANS.


Whole Cake.


Half Cake.

Whole cakes or pan, 25 cents each; half cakes or pan, 13 cents each.

Antwerp Blue,
Bistre,
Blue Black,
British Ink,
Brown Ochre,
Brown link,
Bronze,
Burnt Sienna,
Burnt Umber,
Chinese White,
Chrome Yellow,
Cologne Earth,
Constant White,
Deep Chrome,
Iragon's Blood,
Emerald Grcen,

Flake White,
Gamboge,
Ilooker's Green, No. 1,
Hooker's Green, NO. 2,
Indigo,
Indian Red,
Italian Pink,
Fory Black,
King's I ellow,
Lamp Black,
Light Red,
Naples lellow,
Nentral Tint,
New Blue,
Olive Green,
Orange Chrome,

Payne's Gray,
I'russian Blue,
Prussian Green,
Jaw sicma,
Raw Umber,
Red Clialk,
Red Lead,
Ked Ochre,
Iioman Ochre,
Sap Green,
Terre Verte,
Vandyke Brown,
Venetian lied,
Vermilion,
Yellow Lake,
Yellow Ochre.

Whole cakes or pan, 45 cents each; half cakes or pan, 23 cents each.

Black Lead,
Brown Madder, Chaton's Brown, Chinese Orange,
Cœrulcum,
Crimson Lake,

Indian Yellow,
Magenta,
Mars Yellow,
Mauve,
Neutral Orange,
Purple Lake,

Koman Sepia,
Rubens' Madeler,
Scarlet Lake,
Scarlet Vermilion,
Sepia,
Warm Sepia.

Whole cakes or pan, 55 cents each; half cakes or pan, 28 cents eacl.
Orange Vermilion, | Violet Carmine. | Cobalt Bluc.
Whole cakes or pan, 90 cents each; half cakes or pan, 45 cents each.

Aureolin,
Burnt Carmine,
Cadmium Yellow,
Cadmium Orange,
Carmine,
Dahlia Carmine,

French Blue,
Gallstone,
Green Oxide of Chromium,
Indian Purple,
Intense Blue,
Lemon Iellow,

Pale Cadmium Yellow,
Pink Madder,
Pure scarlet,
Rose Madder,
Viridian,
Madder Lake.

Whole cakes or pan, $\$ 1.40$ each; half cakes or pan, 70 cents each.
Field'a Orange Vermilion,
Madder Carmine,
Mars Orange,

Purple Madder,
Smalt,
Ultramarine Ash,

Dcep Rosc.

## GOLD AND SILVER CUPS AND SHELLS.

Gold Shells, each, 20 cents.
Silver Shells, each, 10 cents.
Gold Saucers, 1 inch, 25 cents; $1 \frac{1}{2}$ inch, 35 cents; 2 inch, 60 cents. Silver Saucers, 1 inch. 15 cents; $1 \frac{1}{2}$ inch, 25 cents.

# GEORGE ROWNEY \& CO.'S - ND - 

WINSOR \& NEWTON'S WATER-COLOR BOXES

" SLIDE" HALF-CAKE BOXES.


54 and 56 Cornhill. Boston.

## GEORGE ROWNEY \& CO.'S



## School of Art Color Box,

Fitted according to the formula recommended by the Department of Science and Art in England, and consisting of the following color's: -

Gamboge,
Yellow Ochre, Vermilion,

Light Red,
Burnt Siema, Sepia,

Ultramarine.

Lake, Vandyke Brown, Indigo.

$$
45 \text { CENTS A BOX. }
$$

## Superior School Water Colors,

Used in all the Government Schools in England. Between the Best and Ordinary Colors in quality.


## Winsor \& Newton's Water Color Liquids.




INDLA INK.


Very Choice, square sticks, $3 \frac{1}{2}$ inches long . . . . . . $\$ 2.00$
Choice, " $2 \frac{1}{2}$ " . . . . . . . 35
Medium Quality Round Gilt, Lion Head . . . . . . . 40
Ordinary . . . . . . . . . . . . . . 10
54 and 56 Cornhill, Bostrn.

## Winsor \& Newton's Japanned Tin Boxes. FOR MOIST WATER COLORS.



These Boxes are made of japanned tin, and their flaps, being of a dead white color inside, serve as palettes.

To contain 6 Whole Cakes, each $\$ 1.30$


To contain 6 Half Cakes, each
$\$ 1.25$
" 8 "، " $\quad 1.35$

| 6 | 10 | 6 | 6 | 1.45 |
| :--- | :--- | :--- | :--- | :--- |

" 12 " 201.55
" 16 ، $6 \quad 1.90$
" 18 " $6 \quad$ " 2.00
"6 20 " " 2.10
" 24 ، $4 \quad 2.30$

## Japanned Tin Sketching Boxes, FILLED WITH MOIST COLORS.



Boxes fitted with Colors to order from \$2.50 to $\$ 25.00$ each.

## PORTE CRAYONS.

Common Brass, 4 to 6 inches long
5 to 10 cents.
Washed or Plated, 4 to 6 six inches long
Conte Porte Crayons, Hollow Cedar Centres
20
Ebony, Plated Ends

## STUMPS.




## Winsor \& Newtou's Prepared Canvas, FOR OIL PAINTING.

 IN ROLLS OF SIX YARDS.| 27 inches |  | wide, per yard, |  |  | Smooth. | Roman. 1.25 | Twilled. $\text { ‘} 1.40$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30 | " | ،6 | per yard, | - | 1.25 | 1.40 | 1.60 |
| 30 | '6 | ' | ' |  | 1.40 | 1.55 | 1.80 |
| 38 | ، | ، | " |  | 1.55 | 1.68 | 2.00 |
| 4 | ، | " | " | - | 1.68 | 2.00 | 2.25 |
| 45 | , | ، | " |  | 2.10 | 2.50 | 2.55 |
| 5 | . | '، | " |  | 2.75 | 3.20 | 3.30 |
| 62 | " | - | " | - | 3.25 | 3.50 | 3.50 |
| 74 | " | " | jer roll, |  | 23.50 | 31.50 | 32.00 |
| 80 | " | " | " | - | 27.00 |  | 33.00 |

Single prime Canvas same price as smooth.
Extra widths imported to order.

## Winsor © Newton's Prepared Canvas on Frames.

|  | Smooth. |  | Roman..38 | Twilled. | Smooth. |  |  | Roman. | Twilled. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $8 \times 10$ | ach, | . 35 |  | .45 | 20x24 | each, | 1.15 | 1.35 | 1.45 |
| $9 \times 12$ | ، | . 35 | . 38 | . 45 | 20x27 | " | 1.20 | 1.40 | 1.45 |
| $9 \times 13$ | " | . 40 | . 45 | . 50 | $22 \times 27$ | ، | 1.25 | 1.50 | 1.65 |
| 10x12 | " | . 40 | . 50 | . 55 | 20x30 | . | 1.30 | 1.50 | 1.60 |
| $10 \times 14$ | " | . 45 | . 55 | . 60 | $22 \times 30$ | '6 | 1.35 | 1.55 | 1.70 |
| 10x16 | ، | . 50 | . 60 | . 60 | $25 \times 30$ | $\cdots$ | 1.40 | 1.60 | 1.90 |
| $11 \times 15$ | ، | . 55 | . 60 | . 70 | $24 \times 34$ | " | 1.55 | 1.80 | 2.00 |
| $12 \times 14$ | " | . 55 | . 6.5 | . 70 | $27 \times 34$ | , | 1.65 | 200 | 2.20 |
| $12 \times 15$ | . | . 60 | . 70 | . 75 | $24 \times 36$ | '6 | 1.80 | 2.10 | 2.25 |
| $12 \times 16$ | '6 | . 60 | . 70 | . 75 | $26 \times 36$ | * | 1.90 | 2.15 | 2.30 |
| $12 \times 18$ | " | . 65 | . 80 | . 90 | 28x 48 | . | 2.75 | 3.10 | 360 |
| 12 x 20 | '6 | . 70 | . 80 | . 90 | $29 \times 36$ | ، | 1.75 | 2.35 | 2.50 |
| $14 \times 17$ | ، | . 70 | . 85 | . 95 | $30 \times 40$ | 6 | 2.70 | 2.90 | 3.15 |
| $14 \times 18$ | " | . 75 | . 85 | . 95 | $30 \mathrm{x}+2$ | ${ }^{6}$ | 2.75 | 3.10 | 3.25 |
| 14x-0 | " | . 75 | . 85 | 1.00 | $30 \mathrm{x}+4$ | ، | 2.85 | 3.25 | 3.50 |
| 16 x 20 | " | . 85 | . 90 | 1.10 | $26 \times 42$ | '6 | 2.20 | 2.55 | 2.75 |
| $16 \times 29$ | ، | . 85 | . 90 | 1.10 | $36 \times 42$ | " | 2.80 | 3.20 | 3.65 |
| 16x24 | " | . 90 | 1.05 | 1.15 | $34 \times 60$ | '6 | 4.00 | 4.50 | 5.00 |
| $17 \times 21$ | " | . 95 | 1.05 | 1.15 | 34 x 44 | '6 | 2.95 | 3.35 | 3.65 |
| $18 \times 24$ | " | 1.05 | 1.05 | 1.25 | $40 \times 50$ | " | 380 | +.00 | 4.75 |
| 18x30 | " | 1.10 | 1.10 | 1.40 | $40 \times 54$ | ' | 3.90 | 4.25 | 5.00 |

Special and irregular sizes made and stretched to order.

## FRENCII CANVAS. <br> Winsor \& Newton's Academy Boards.

Academy Boards, . . $18 \frac{1}{2} \times 24 \frac{1}{2}$ inches, each, . . 38 cents. Malf size " . . $12 \frac{1}{4} \times 18 \frac{1}{2}$ " 6 . . 20
Quarter size " . . $9 \times 12$ " " . . 12 "
Eighth
$6 \times 966$ 6 96

## Winsor \& Newton's Prepared Millboards. Oil Sketching Paper.

Prepared Oil Sketching Paper, Thin, per sheet, . . 25 cents. Prepared Oil Sketching Paper, Extra Thick, per sheet, 45 "6 Grecian Oil Sketching Paper, per sheet, 40 " BLACK PANELS. See Page 76.

> F. C. HASTINGS \& CO.

## EASELS.

Pine Rack Easels,
Black Walnut (oiled) Rack Easel,
Black Walnut, 3 pieces to fold, Pine, 3 "" " Black Walnut Table Easel, Black Walnut, with shelf for brushes and colors,
Sketching Easels for ont-door sketching. Height, when ready for use, 54 inches ; folded, $33 \frac{1}{2}$ inches by $2 \frac{1}{2}$ inches. Will easily hold a canvas 18 by 24 inches. Weight, 2 lbs .5 oz . Made of maple, and very durable ; each,


Black Walnut, 3 pieces to fold.
Sketching Seat and Easel combined. The cut represents the Seat and Easel opened for use. The Easel, when closed, occupies a space 27 by 14 , inches; weight, 6 lhs .8 oz ; made of hardwood,

The Easel open.

## PALETTE KNIVES.



Superior Gilders', 6 inch, each, .60

## TLN OIL SKETCHING BOXES.



No. 1. Japanned Tin Sketeh Box, arranged for Palette, Colors, Brushes, Oils, etc., bottom compartment for Mill Boards, size $10 \times 14$, each,
No. 2. Japanned Tin Sketch Box, same as No. 1, without the compartment for Mill Boards, size $9 \frac{1}{4} \times 13 \frac{1}{2}$, each, .
No. :3. Japanned Tin Sketch Box, irranged for Palette, Colors, Brushes, Oils, cte., size $9 \times 13$, each,

Boxes "fitted" to order with Colors, IBrushes, Oils, ete., complete.
Winsor \& Newton's Sketching Folios, ( to Imperial, $11 \times 15$ inches, each,
with Japanned Tin Frames and $\left\{\right.$ svo " $7 \frac{1}{2} \times 11$ " .. 2.63
pocket for paper sketches. (4to Royal $9 \frac{1}{2} \times 12$.. .. 2.00
PALETTES. Oval or Square.


|  |  | Oiled <br> Mahogany. | Polished <br> Mahogany. | Oiled Walnut. | Polished Walnut. | Polished Satin Wood. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 inch, | . $\cdot$ | \$ . 30 | \$. 60 | \$ . 30 | \$ . 60 | \$ . 65 |
| 10 " | . . | . 35 | . 70 | . 35 | . 70 | . 75 |
| 11 " | . . | . 38 | . 80 | . 38 | . 80 | . 85 |
| 12 " | . . | . 40 | . 90 | . 40 | . 90 | . 95 |
| 15 " | . | . 50 | 1.20 | . 50 | 1.20 | 1.20 |
| 18 " | - . | . 90 | 1.40 | 1.00 | 1.40 | 1.50 |

54 and 56 Cornhill, Boston.

## Varnishes.

## 2 Oz. ROUND GLASS BOTTLES.

Winsor \& Newton's Strong Mastic Varnish ..... $\$ 0.90$
Picture ..... 75
". " Picture Copal ..... 45
" " Crystal ..... 35
Retouching Varnish, 2 oz. bottles ..... 25
French Retouching Varnish, 1 oz. square bottles ..... 25
Grecian Varnish ..... 25
Picture ..... 2.5
Copal ..... 25
Florence .....  30
Roberson's Medium ..... 40
Extra Picture Varnish ..... 35

## $0 i l s$.

## 2 Oz. ROUND GLASS BOTTLES.

Winsor \& Newton's Nut Oil ..... \$0. 25
" " Poppy Oil ..... 25
" " Linseed Oil ..... 20
" " Strong Drying Oil .....  25
" " Prale .....  25
Hoit's Clarified Drying Oil ..... 20
Light or Pale Drying Oil. .....  20
Deep or Strong Drying Oil ..... 20
Linseed Oil ..... 15
French Nut Oil .....  20
" Poppy Oil ..... 20
Siccatif.
Siccatif de Harlem ..... $\$ 0.50$
Siceatif de Courtrai .....  25
Oil and Water Bottles.

| No. 1, | Roun | ann |  | ttle | itl | cup | ac |  | \$1.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. 3, | Oval | " | " | " | " | " | " |  | 1.30 |
| No. 4, | " | " | " | " | " | " | " |  | 1.50 |
| No. 5, | " | " | " | " |  | " | . |  | 1.80 |
| No. 6, | " | " | " | " | " | . | " |  | 2.25 |
| Flat Japanned Tin Oil Bottles, each |  |  |  |  |  |  |  |  | 1.00 |

## Canvas Scrapers.

$\qquad$
Small
$\$ .40$ | Large

## Winsor \& Newton's China Ware. Palettes.

| \$ . 30 | Oral or Square, 9 inches, each | \$.50 |
| :---: | :---: | :---: |
| . 35 | 10 |  |
| . 40 |  |  |

## Nests of Cabinct Sancers.

No. 1 Containing 6 Saucers, $2 \frac{1}{2} \mathrm{in}$. in Diam., per set, $\$ .50$ No. $2 \quad$ " $6 \quad 6 \quad 23$ " $6 \quad$ " 6

## Divided Slants.



## India Ink and Color Slabs.



No. 1 Ink Slab, measuring 23 by $1 \frac{8}{8}$ inches, each



Round Slant and Basin.
FOR ARCHTECTS' AND ENGINEERS'

## OFFICE USE.



Square Divided Flat Tiles.

| 3 |  |
| :--- | :--- |
| 6 | Square, each |
| " |  |
|  | $\$$ |

No. +6.
$\underset{12}{9}$ square, cach


## Centre Slant.

Box Well Slab, each . . $\$ .30 \mid$ Well Slab, cach . . . . 60


## WINSOR \& NEWTON'S FINEST BROWN AND RED WATER COLOR SABLES, IN ALBATA.



Round and Flat, same price.

## FRENCH BROWN AND RED WATER-COLOR SABLES.

Black Polished Handles, Plated Ferrules.

| Red. |  |  |  |  |  |  |  |  | Black. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. |  |  | each | - |  |  | 8 | . 18 | No. |  | ize, | each |  |  |  | \$ | . 22 |
| " | 1 | " | " | . |  | - |  | . 20 | ' | 1 | -• | " |  |  |  |  | . 25 |
| 6 | 2 | " | '. | - | . | . |  | . 20 | ' | 2 | ، | " |  |  |  |  | . 30 |
| " | 3 | " | " | . | . | . |  | . 30 | ' | 3 | " | " |  |  |  |  | . 35 |
| '6 | 4 | ${ }^{6}$ | '6 | . | . | . |  | . 35 | '. | $t$ | . | " |  |  |  |  | . 40 |
| 6 | 5 | ${ }^{6}$ | ، | . | . | . |  | . 40 | " | , | $\cdots$ | " |  |  |  |  | . 45 |
| " | 6 | $\cdots$ | - | . | . |  |  | . 45 | " | 6 | 6 | " |  |  |  |  | . 50 |
| " | 7 | * | $\cdots$ | - |  | - |  | .55 | " | 7 | - | " | - |  |  |  | . 60 |

Camel-Hair Pencils, fine quality, wood handles, and metal tubes, Nos. 1 and 2 , 10 cents each; 3 and 4,12 cents; 5 and 6,15 cents.

## FRENCH CAMEL-HAIR BRUSHES.

In Tin. For Water-Color Painting, Tinting or Lacquering.


SKY OR WASH BRUSHES, FOR WATER-COLOR PAINTING.



FRENCH CAMEL HAIR BRUSHES, in Quilis.

Extra Small Swan Quill, each ..... $\$ .20$
Small Swan Quill, ..... 35
Middle " " " ..... 45
Large ..... 55
NEW SIBERIAN BRUSHES.Plated Ferrules, Tinting Brush, for Architects' and Engineers' use.6 sizes, Round, each, from: 8.15 to .35
Double-Enders, brush at either end, each ..... 65
FRENCH SABLE BRUSIEES, in Quills.

Swan Quill, ranging in price, from . . . . $\$ .75$ to $\$ 3.50$ each.
Crow Quill to Swan Quill, ". . . . 10 to . 50 eaeh.

BRISTLE POONAH BRUSHES, Stained Eandles.
6 sizes, either size,


## CAMEL HAIR STRIPING BRUSHES,

For Letterers, Writers, Scrollers, etc.
From Nos 1 to No. 8, assorted.
From $\frac{1}{2}$ inch to $2 \frac{1}{2}$ inches long, per doz. . . . . . . $\$ .33$ " " " " " " each . . . . . 0

SIberian ox-hair stripers.

| $1,1 \frac{1}{4}, 1 \frac{1}{2}$, and 2 inch, each |
| ---: |
| Superior brush for Fresco and Carriage Painters. |

BLACK SABLE STRIPERS.

LANDSEER'S BRISTLE ARTISTS' BRUSHES.
bright's bristle artists' brushes.

WINSOR \& NEWTON'S RED SABLE ARTISTS' BRUSHES.
FOR OIL PAINTING. ROUND AND FLAT. POLISHED HANDLEN.


In Tin. For Oil Painting. Red Polished Cedar Handles.


## SUPERFINE ARTISTS' RED SABLE BRUSHES.

For Oil Colors. Round and Flat. Polished Handles.


## RUSSIAN SABLE ARTISTS' BRUSHES.

(SUBSTITLTE FOR IRED SABLE.)
For Oil Painting. Round and Flat. Polished Hardles.

| No. 1 | each | - | - | - | . | \$ | . 08 | No. |  | each | $:$ | - | - | - | $\$$ | . 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\cdots 2$ | ، | . | . | . | . |  | . 09 |  | 9 | 66 |  | . | . | . |  | . 16 |
| ${ }^{6} 3$ | 6. | . | - | - | - |  | . 10 | 6 1 | 10 | 6. |  | . | - | . |  | . 18 |
| 6 4 | 6 | - | . | . | . |  | . 11 | 61 | 11 | 6. |  | - | , | - |  | . 19 |
| * 5 | 66 |  | . | . | . |  | .12 | 61 | 12 | 6 |  | . | . | . |  | . 20 |
| 6 6 | 6. | - | - | . | . |  | . 13 | 61 | 14 | . 6 | - | - | - | - |  | .25 |

## Special Extra Fine Hog-Hair Brushes, in Tin.

For illustration of these Brushes, see page 18.

D. Short wedge slape, coming to a fine edge.
E. In three parts, to prevent color accumulating and elogging the bottom of the brush.
F. Double pointed, and affording a peculiar touch when pressed laterally on the canvas.
G. Carefully made to resemble a worn brush, but not cut nor trimmed, and having, therefore, a soft flag.
H. Of long feathery edge, and affording sweeping touches.
I. Very long, and of perfectly straight hair, - having a good spring and enabling square touches to be placed on with accuracy.
K. Similar to the foregoing, but shorter and firmer, thus possessing more general working properties.
L. The edges of the ferrule and of the brush being of a parallel slant, cause great frecdom and evenness in working, when the brush is required to be held at an angle.
M. Having a hollow which, when full of color, acts as a feeder, and enables the brush to be used for some time without being stopped for fresh supply of color.
N. Very long in the hair, for points or dots, rough lines or light dragging.
O. Similar to the foregoing, but shorter and firmer.
P. Short, stumpy brush, useful for rubbing, etc.

Any of the above brushes, each
. 22

## Siberian Ox-Hair Artists’ Fresco Brushes.

ROUND AND FLAT. IN TIN. IOLISIIED IIANDIES.

VERY ELASTIC, 10 cts. to 20 cts. each.


Fine Red Sable Riggers, in Silver-Plated Ferrules.
Prices same as those of Superfine Round Sable, page 16.

## WINSOR \& NEWTON'S "SPECIAL" EXTRA FINE BRISTLE BRUSHES.

These Brushes are specially made at the suggestion, and after the patterns, of some of the most eminent artists of the day.


E


F


G


H


I


K


L


1


P


Description on page 17.

54 and 56 Cornhill, Boston.

## WINSOR \& NEWTON'S FLAT AND ROUND BRISTLE BRUSHES.

In Tin, Polished Cedar Handles.



## SUPERFINE ARTISTS' BRISILE BRUSEES.

Polished Handles. Round and Flat.
No. 0 to 12, assorted, per doz., . $\$ 1.00$ each . . . \$. 10

54 and 56 Cornhill, Boston.

## FRENCH ROUND BADGER BLENDERS, Polished Handles.



BRISTLE VARNISH BRUSHES, Cedar Handles, Nailed.


| 1 | inch | ride | ach |  |  | S | . 17 |  | inch | wide | each |  |  |  | \$ 8.43 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1 \frac{1}{2}$ | " | '6 | " | . | - |  | . 25 | 3 | " | " | ، |  | - | - | . 00 |
| 2 | " | 6 | '6 |  |  |  | . 34 |  |  |  |  |  |  |  |  |

CAMEL-HAIR VARNISH BRUSHES, Long Cedar Handles.


|  | ch | wide | eh |  |  |  | S | . 25 | 2 | inch | wide | each |  |  |  | \$ . 50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | - | ، | "6 |  | . |  |  | . 30 | $2 \frac{1}{2}$ |  | " | , |  |  |  | . 63 |
| $1 \frac{1}{2}$ | ، | ، | " | . | . | . |  | . 38 | 3 | ، | ، | .. |  |  | . | . 75 |

54 and 56 Cornhill, Boston.

## SKETCH BLOCKS.



Half Bound.

## SOLID SKETCH BLOCKS, Whatman's Papers.

|  | Solid Blocks only. |  |  |  | Solid Block only. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16nıo, Royal, $4 \frac{1}{2} \times 5 \frac{1}{2}$ | \$ | . 35 | 8vo, Imperial, $7 \times 10$ |  | \$ | . 75 |
| 16mo, Imperial, $5 \times 7$ | - | . 45 | 4 to, Royal, $9 \times 11 \frac{1}{2}$ |  | - | 1.13 |
| 8vo, Royal, $5 \frac{1}{2} \times 7$. |  | . 50 | 4to, Imperial, $10 \times 14$ |  |  | 1.40 |

## SOLID SKETCH BLOCKS, Whatman's Thick Papers.



## SOLID SKETCH BLOCKS, Whatman's Extra Thick Papers.

|  |  | Solid Sketeh Blocks, Half Buand. |  |  |  |  | Solid Blocksonly. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16 mo , Double Eleplant, $6 \times 9$ | hes |  | \$180 |  |  |  |  | \$1.25 |
| 8vo, Imperial, $7 \times 10$ | ، |  | 2.30 |  |  |  |  | 1.50 |
| 8 vo , Double Elephant, $9 \times 1$ ² | " |  | 3.25 |  |  |  |  | 2.40 |
| 4 to, Imperial, $10 \times 14$ | ، |  | 4.00 |  |  |  |  | 2.75 |
| 4to, Double Elephant, $12 \times 18$ | ، |  | 7.00 |  |  |  |  | 4.50 |
| Half Imperial |  |  | 8.00 |  |  |  |  | 5.00 |

54 and 56 Cornhill, Boston.
Sketch Blocks, Continued.
CHARCOAL SKETCH BLOCKS, Berville Superior Paper.
First Quality.
Half Royal, $11 \times 18$ inches, each ..... $\$ 1.00$
4to, " $\quad \underset{9 \times 11}{ } \quad \begin{gathered}\text { Gray tinted paper, same sizes and prices as above. }\end{gathered}$SKETCH B00KS.
SKETCH BOOKS, White Paper, for Pencil Sketching.
No. 1 size, $3{ }_{4}^{3} \times 5^{3}$ inches, each ..... \$. 40
". 2 " 4, $\times 66^{3}$ " " .....  50
" 3 " $4 \frac{1}{2} \times 7 \frac{7}{6}$ " ..... 55
" 4 " ${ }^{6} 5^{3} \times 67$ " .....  65
" 5 " $7 \times 11$ " " ..... 1.00
TINTED SKETCH BOORS.
Made of French Tinted Paper, for Pencil Drawing.
No. 1 size, $3_{4}^{3} \times 5_{4}^{3}$ inches, each ..... $\$ .45$
" 2 " $4 \frac{1}{2} \times 6{ }^{3}$ " " .....  55
$\begin{array}{llll} & 6 & \text { " } & 4 \frac{1}{2} \times 7 \frac{1}{8}\end{array}{ }^{6}$ " .....  65
$" 4$ " $5^{\frac{3}{4} \times 7 \frac{7}{8}}$ " " .....  75
" 5 " $7 \times 11$ " " ..... 1.00
CHARCOAL.
Choice Conte, per box containing 50 sticks ..... $\$ .45$
" Berville, small, per box containing 50 sticks .....  50 .....  50
" "، large, " " 50 " ..... 45
" Rouget," " " 25 " assorted .....  40
$\begin{array}{cl}\text { Ordinary, small, " } & \text { " } \\ \text { large, per bundle } & \text { ". } \\ 50 & \text { " } \\ & 0\end{array}$ .....  25
40
Stumping Sauce, per stick ..... 0³
Charcoal Sketching Boxes, Nos. 1, 3 " " Folios, Nos. 1,3
FIXATIF ROUGET.
Box containing Apparatus, Liquids, etc. ..... $\$ 2.25$
Small Bottle Fixatif, each ..... 38
Large .....  60
Blowing Apparatus, separate ..... 1.60
Liquid, special .....  20

## CHAMOIS SKINS.

Chamois Skins

## CHALK CRAYONS.

White, per gross ..... \$ . 25
Assorted colors, per gross .....  00
Carpenter's Chalk (red), per gross ..... 1.25
per doz. ..... 15

F. C. HASTINGS \& CO.

## PASTELS, CRAYONS, Etc.




[^0]
## Hard French Pastel Crayons.

Round Boxes, containing fisticks, per hox, \$. 10

## First Quality.

Round Boxes. containing 12 sticks, per box


## PASTEL PAPERS, BOARDS, ETC.



54 and 56 Cornhill, Boston

## DRAWING BOARDS.

## PANEL DRAWING BOARDS.

| to, Imperi |  |  | $9 \times 13 \frac{1}{2}$ | , |  |  |  |  | - | \$1.75 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Half | " | 6 | $13 \frac{1}{2} \times 19$ | " |  |  |  |  |  | 2.00 |
| Imperial, | " | ، | $19 \times 28$ | 6 |  |  |  |  |  | 2.50 |

The above boards are made of thoroughly-seasoned stock; frames of hard wood, and panels of pine.

## PLAIN DRAWING BOARDS.

Imperial, size $22 \times 30$ inches
Half Imperial, size $16 \times 22$ inehes
4to,
4

## PORTFOLIOS.

## Cloth Sides, Leather Corners and Backs, Silk Strings.

| $10 \times 14$ | nch | lain |  |  |  | \$1.20 | with in | flaps |  |  |  | \$1.88 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $12 \times 16$ | " | ، |  |  |  | 1.50 | " | '6 |  |  |  | 2.25 |
| $14 \times 18$ | " | ، |  |  |  | 180 | ، | " |  |  |  | 2.63 |
| $15 \times 20$ | " | " |  |  |  | 1.90 | '، | 6 |  |  |  | 3.00 |
| $16 \times 22$ | " | ، |  |  |  | 2.10 | " | " |  |  |  | 3.38 |
| $18 \times 24$ | " | " |  |  |  | 2.40 | ، | " |  |  |  | 3.75 |
| $22 \times 30$ | " | " |  |  |  | 3.00 | ، | " |  |  |  | 4.50 |

Larger and irregular sizes made to order at short notice.

## PORTFOLIOS.

Paper Sides, Leather Corners and Backs, for Architects' and Engineers' use.

| $10 \times 14$ | 俍 | ch |  | \$.75 | $16 \times 22$ | ch | ach |  | \$1.30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $11 \times 16$ | " | -• |  | . 85 | $18 \times 24$ | " | " |  | 1.45 |
| $14 \times 18$ | " | ، |  | 1,20 | $22 \times 30$ | '6 | ، |  | 1.50 |

# French Sketching Boxes, Umbrellas and Seats. 

 LaNDSCAPE WALNUT BOXES.Interior fitted in Tin, with Palette, Oil Bottles, ete.

DRAWING PENCLLS, ETC.
faber's tubular siberian pencils.
For Architects' and Engineers' use, and all general purposes.
10 grades, from 3 B to 6 H , each, ..... \$ . 30
Leads for Tubular Pencils, 6 Leads in box, .....  60
FABER'S PENCILS.
A. W. Faber's Black Round Gilt, Nos. 1, 2, 3, 4, per dozen, ..... \$. 55
per dozen, ..... 1.00
Faber's Mathematical Peneils, for dividers, per dozen, ..... 70
" English Yellow Silver, 10 grades, from 3B to 4II, per dozen, .....  55
FABER'S PENCILS. IN BOXES.
5 Grades Siberian Pencils, eaelh, ..... $\$ .90$
$\begin{array}{llll}7 & " & " & " \\ 5 & " & \text { and Knife and Rubber, }\end{array}$ ..... 1.10
10 "، "، "، on eards, ..... 1.50
5 " English Yellow Silver, .....  25
7 " " " " .....  $6^{0}$
5 " " " " Knife and Rubber, ..... 1.00
10
4 " ${ }^{\prime \prime}$ " ${ }^{\prime}$ " ..... 85
4 " Round Black Gilt, ..... 35
COLORED PENCILS IN BOXES.
6 Assorted Colors, in box 7 inches long, per box, ..... $\$ .75$
$\begin{array}{lllll}12 & \text { "، } \\ 18 & " & " & " \\ & \text { " }\end{array}$ ..... 1.20
24 " ، " ، ..... 2.25
MAPPING AND DRAWING PENS.
Gillott's Mapping Pens, on eards, per dozen, ..... \$. 60
"، Lithographic Crow Quill Pens, per dozen, .....  60
" " Pens, on eards, .....  60
RUBBER, ETC.
Faber's Ink and Peneil Eraser, small size, eaeh, ..... \$ . 15
" " " mammoth size, .....  20
" Ink Eraser, each, ..... 06
" Black Gum, ..... 10 to . 50
" White Rubber, best in the market, each, ..... 05 to . 50
" Pencil " each, ..... 12
Webster's Chalk Eraser, .....  20
Erasers Conte a Paris, medium, .....  20
small, ..... 12
ERASERS.
Ivory Handle Erasers, each, ..... \$. 50
Cocoa ..... 40

## drafting and drawing papers.

WHATMAN'S PERFECT DRAWING PAPERS.
Smooth or Rough Surface.


## WHATMAN'S PERFECT PAPERS.

Thick and Double Thiek, Smooth, Rough, and Extra Rough Surface.

## WINSOR \& NEWTON'S GRIFFIN ANTIQUARIAN.

A pure, choice and first-class Drawing Paper of Whatman's manufacture. Size. $31 \times 5$ 2 inches, per sheet, .

## WHITE AND BROWN ROLI DRAWING PAPERS.

60 inches wide, white, per yard, . . . . . . . . \$ . 50
59 " 6 " 6 . 6 . . . . . . . . 4.5
54 6 6 6 6 . . . . . . . . . 30

48 " " Buff Tint Manilla, thin, per yard, . . . . . . 10
48 " " " " " thick, " . . . . 12
48 " 6 " " 6 extra thick, per yard, . . . . 15
CLOTH BACKED OR MOUNTED CONTINUOUS PAPERS,

| 1. | Whatman's D. E., |  |  |  |  | see |  | - | \$1.00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E. | English Mounted, | 54 | " | 6 6 |  | d. rolls, | \$12.00 | per yarl | 1.30 |
| F. | " | 54 | " | 6 | 10 | '6 | 12.50 | ¢ | 1.35 |
| (1. | ، | 60 | : | 6 | 10 | 6 | 14.00 | ، | 1.60 |
| G. | '* | 30 | \% | : 6 | 10 | '6 | 7.50 | * | . 85 |
| E. | ، | 30 | " | ، | 10 | ، | 7.50 | [، | . 85 |
| I. | Leonine Mominted, |  | " | " | 10 | " | 14.00 | " | 1.60 | Samples of either of the above furnished on application.

TRACING OR VELLUM CLOTH.


The Imperial Cloth, designated " Dull Back," having one side unglazed, takes pencil, ink, and color much better than the ordinary glazed surface.

SUPERIOR TRACING PAPER.

| Roll 21 yards by | 44 inch | per roll, | - |  | - | - . |  | \$2.80 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| " 11 " | 44 " | " |  |  |  |  |  | 1.40 |
| " 11 " | 44 " | white, per roll, |  |  | - | - . |  | 1.00 |
| " 21 " | 44 " | " ، |  |  | . |  |  | 2.00 |
| Double Elephant, | 27x40 | nches, per quire, |  |  | \$1.80 | per shect, |  | . 15 |
| Imperial, | 20x30 | "6 " |  |  | 1.12 | " |  | . 08 |
| Vegetal, | $19 \times 24$ | '6 |  |  | 1.80 | " |  | . 12 |
| D. E. Vegetal, | $27 \times 40$ | ، 6 |  |  | 8.00 |  |  | . 35 |

## Drafting and Drawing Papers, Continued.

## HARDING'S WATER-COLOR PAPER.



GERMAN DRAWING PAPERS, Hard Finished Surface.


## Tinted Crayon Papers, Etc.

English Double Elephant, 27x40 inches, per sheet, . . . . . $\$ .25$
" Imperial, $22 \times 30$ " " . . . . . . 13
French " $21 \times 28$ " " . . . . . . 10
" Royal, $19 \times 24$ " " . . . . . . 08
Charcoat or Design Paper, . . . . . . . . . . 05
Best Lalanne " . . . . . . . . . . 06
REYNOLD'S BRISTOL BOARD, Finely Finished Surface.


REYNOLDS \& TURNBULI'S ABRADED BOARDS.

## Hand-Made Tinted Papers.

Extra Stout. - Weighing 90 pounds to the Ream. FOR WATER COLORS.
Imperial, $30 \times 21 \frac{1}{2}$
per sheet, . 20
per quire, $\$ 4.00$

## Field Books.



Drafting and Drawing Papers, Continued.

## "LEONINE"

(TRADE MARK.)

## DRAWING PAPER.

Now used by Draughtsmen throughout Europe.

1. It is of a singular toughmess.
2. Is easily erasible from either ink or pencil mark.
3. After an erasure, a smooth surface is left, and can be written on without the ink spreading.
60 inches wide, white, per yard

## Eggshell Drawing Paper, in Sheets, Best Quality.

## Tracing Paper.

German, very best, very tough and transparent, 54 inches wide, in rolls of 44 yards, per roll .$\$ 6.00$
Flaxine Paper, in sheets, $21 \times 31 \mathrm{in}$., per quire ..... 2.50
Crystalline Paper, in sheets, $24 \times 32$ in., per quire . ..... 1.00
Bond Paper, $16 \times 21 \mathrm{in} ., 19 \times 30$ in., per 100 sheets, $\$ 3.00$ and $\$ 5.00$Gelatine or Glass Paper, $13 \times 19$ in., per sheet, thin . . . 30medium, .35 ; thick, . 45

Transfer Paper, blue, red and black, $11 \frac{1}{2} \times 18 \frac{1}{2}$ in., Royal, per sheet10

White Mounting Board, $22 \times 28 \mathrm{in}$., according to thickness, per sheet15 to .25

## Sundries.

## Very Superior Japanese Ink.

This Ink is best adapted for mechanical drawings, where lines are frequently washed, in applying brush tints. The lines drawn with this Ink will remain clear and distinct, and will not be blurred or defaced by the brusl.
$3 \frac{5}{8} \times \frac{7}{8} \times \frac{1}{2}$ inch, per stick $\$ 1.25$

## Sponge Rubber.

FOR CLEANSING DRAWINGS.

## Empty Mahogany Color Boxes.

For W. \& N. Half Cakes, 12, 18, and 24 colors, 50, 60, and 75 cents each.

## Drawing Pins or Tacks.



## McGill's Patent Paper Fasteners.

## Materials for Wax Flower Making.

## SHEET WAX.



## Extra Fine Colors,

PREPARED FOR COLORING WAX, WOODEN MOULDING TOOLS.

## Miscellaneous.



## GILT LEAF MOULDS.

## FINELY VEINED AND MOULDED FROM NATURE.

| Azalea, |  | sizes, | each, | . | . |  |  |  |  | \$ .08, . 10 and . 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Abutilon, | 2 |  | " |  |  |  |  |  |  | . 10 and .12 |
| Blackberry, | 3 | ' | . |  | . |  |  |  |  | .08, . 10 and . 12 |
| Butterflies, | 3 | " | " |  |  |  |  |  |  | .08, . 10 and .12 |
| Chestnut, | 3 | " | : |  | . |  |  |  |  | .12, . 16 and .20 |
| Camelia, | 2 | " | " |  |  |  |  |  |  | . 12 and . 16 |
| Currant, | $\underline{2}$ | " | " |  |  |  |  |  |  | . 08 and . 10 |
| Clemestine, | 3 | " | " |  |  |  |  |  |  | .12, . 12 and . 16 |
| Dogwood, | 2 | ، | " |  | . |  |  |  |  | .12 and . 20 |
| Elm, | 2 | " | " |  |  |  |  |  |  | . 12 and . 16 |
| Fuchsia, | 3 | " | ، |  |  |  |  |  |  | . 10 and. 12 |
| Fish Geranium, | 3 | " | ' |  |  |  |  |  |  | .08, 10 and .12 |
| Grape, | 2 | " | " |  |  |  |  |  |  | $\therefore 0$ and. 25 |
| Heliotrope, | 3 | " | ، |  |  |  |  |  |  | . $08, .10$ and . 12 |
| Honey Suckle, | 3 | " | " |  |  |  |  |  |  | .10, .12 and . 16 |
| Lry, | 3 | " | " |  |  |  |  |  |  | .08, .10 and .12 |
| Jessamine, | 2 | " | " |  |  |  |  |  |  |  |
| Lily of Valley, | 2 | " | " |  |  |  |  |  |  | . 12 and . 16 |
| Laurestina, | 3 | ، | " |  |  |  |  |  |  | . $08, .10$ and . 12 |
| Maple, | 3 | ، | 6 |  |  |  |  |  |  | .15, . 20 and .25 |
| Myrtle, | 3 | " | $\cdots$ |  |  |  |  |  |  | . 08 and .10 |
| Orange, | $\bigcirc$ | " | " |  |  |  |  |  |  | . 08 and . 10 |
| Oak, | 3 | " | ، | . |  |  |  |  |  | .15, . 20 and 25 |
| Pond Lily, | $\geq$ | " | " |  |  |  |  |  |  | .12 and .16 |
| Passion Leaf, | 1 | " | " |  |  |  |  |  |  |  |
| Pansy, | 2 | " | " |  |  |  |  |  |  | . 08 and . 10 |
| Rose Geranium, | 2 | " | " |  |  |  |  |  |  | . 08 and . 10 |
| Rose, | 5 | " | ' | . | . |  |  |  |  | . $08, .10$ and .12 |
| Sumac, | $\stackrel{2}{\square}$ | " | " |  |  |  |  |  |  | . 08 and . 10 |
| Salvia, | 3 | " | " |  |  |  |  |  |  | . $08, .10$ and .12 |
| Strawberry, | 3 | " | " |  | . |  |  |  |  | .08, .10 and . 12 |
| Sassafras, | $\because$ | " | " |  | . |  |  |  |  | . 20 and . 25 |
| Verbena, | 3 | " | " |  |  |  |  |  |  | .08, .10 and .12 |
| Violet, | 3 | " | " |  |  |  |  |  |  | .08, .10 and .12 |
| Willow, | 2 | " | " |  |  |  |  |  |  | .12 and . 16 |
| Wild Cherry, | 3 | " | " |  |  |  |  |  |  | .12, . 16 and . 25 |
| Woodbine, | 4 | " | " |  |  |  |  |  |  | .12, . 16 and . 20 |

## TLN FLOWER CUTTERS.

| Azalea, | each, | \$ .12 | Pink, | each, |  | 9.15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Camelia, |  | . 20 | Pyrus Japoniea, |  |  | . 10 |
| Clemestine, | " | . 12 | Pansy, | ، |  | . 15 |
| Dahlia, | " | . 25 | Pond Lily, | . |  | . 30 |
| Easter Lily, | " | . 10 | Quaker Lady, | . |  | . 15 |
| Fuchsia, | " | . 12 | Rose, | . |  | . 30 |
| Forget-me-not, | " | . 10 | Star Flower, |  |  | . 12 |
| Geranium, | " | . 10 | Sweet P'ea, | ' |  | . 15 |
| Honeysuckle, | ، | . 10 | Sweet Alysium, | $\because$ |  | . 12 |
| Heliotrope, | ، | . 10 | Tube Rose, | . |  | . 20 |
| Jessamine, | " | . 10 | Verbena, | . |  | . 10 |
| Lily of Valley, | " | . 10 | Violet, | ، |  | . 12 |
| Moss Rose Calix, |  | . 12 | Wisteria, | " |  | . 15 |
| Narcissus, | " | . 10 | Wild Rose, | " |  | . 10 |
| Orange, | " | . 12 |  |  |  |  |

## GEO. ROWNEY \& CO.'S TREATISES ON THE EINE ARTS.

IINTS ON SKETCHING FROM NATURE. I'art I. By N. E. GREEN. Illustrated by the Author. the edition ..... $\$ .40$
HIN'TS ON SKETCHING FROM NATURE. Part 11. By N. E. GREEN. Illustrated by the Author. $3 d$ edition ..... 40
HINTS ON SKETCIING FROM NATCRE. P’art 1II. By N. E. GREEN. Illustrated by the Author. 4th edition ..... 40
GUIDE TO FIGURE PAINTLNG IN WATER-COLORS. By゙ SYI-
NEY T. WHITEFORD. 3d edition ..... 40
GUIDE TO SKETCHING FROM NATURE IN WATER-COLORS. By 1. C. MILES. With numerous illustrations by the Author ..... 40
PRINCIPLES OF PERSPECTIVE. By IIENRY LEWIS, B.A. Gth edition, enlarged and rerised ..... 40
GUIDE TO WATER-COLOR PAINTING. By R. I'. NOBLE. With an illustration in colors. 13th edition ..... 40
GUIDE TO OIL PAINTING. Part I. By J. s. TEMPLETON. 13th edition. ..... 40
GUIDE TO OIL, PANTING. Part II. (Landscape from Nature.) By A. CLINT. Gth edition ..... 40
GUIDE TO LIGHT AND SIIADE DRAWING. By Mrs. MI. MERRI- FIELD. With illustrations. 5th edition. ..... 40
GUIDE TO PENCIL AND CHALK DRAWING. With illustrations. By G. HARLEY. 9th edition ..... 40
GUIDE TO PICTORIAL ART. By H. O'NEIL. sth edition ..... 40
GUIDE TO LEVELLING ANI) SURVEYING. By W. PEASE ..... 40
GUIDE TO PICTORIAL PERSPECTIVE. By I3. R. GREEN. With illustrations. 4th edition ..... 40
GUIIE TO FIGURE DRAWING. By G. E. HICKS. With illustru- tions. $3 d$ edition ..... 40
GUIDE TO FLOWER PAINTING IN WATER-COLORS. By G. ROSENBERG. Jith illustrations. 7th edition ..... 40
G(II)E TO PAINTING ON GLASS. By H. BIELFELI) ..... 40
GUIDE TO MINIATURE PAINTING AND COLORING PHOTO- GRAPIIS. By J. S. TEMPLETON. 8th edition ..... 40
HINTS FOR SKETCHING TREES FROM NATURE, IN WATER- COLORS. By THOMAS IIATTON. 4thedition ..... 40
ON THE MATERIALS USED IN PAINTING, with remarks on var- nishing and cleansing pictures. By CHARLES MARTEL .....  40
GUIDE TO ANIMAL DRAWING. With numerous illustrations. By C. II. WEIGALL. 6th edition. ..... 40
GUIDE TO ILLUMINATING AND MISSAL PAINTING. By W. \& G. ALDSLEY. Extra bound with gilt edges, etc., and additional illustrations. ..... 1.25
THEORY OF COLORING. By J. BACON. Cloth and gilt. od edi- tion, revised and enlarged ..... 1.25
PRACTICAI MANUAL OF HERALDIC ILLUMINATION. By F. J. BAIGENT and C. J. RUSSELL. Demy, 8vo, cloth and gilt ..... 3.00

# Winsor \& Newton's Griffin Series of Handbooks oll Art, with Illustrations, Etc. 

The Artistic Anatomy of the Dog and Deer each ..... 40
The Artistic Anatomy of Cattle and Sheep ..... 40
The Art of Wood Engraving . ..... 40
The Art of Mural Decoration ..... 40
The Artistic Anatomy of the Horse ..... 40
A Manual of Illumination ..... 40
A Companion to Manual of Illumination ..... 40
The Art of Marine Painting in Water Colors . ..... 40
The Art of Landscape Painting in Water Colors ..... 40
System of Water Color Painting ..... 40
The Art of Portrait Painting in Water Colors ..... 40
The Artistic Anatomy of the Human Figure ..... 40
Transparency Painting on Linen ..... 40
The Art of Transparent Painting on Glass ..... 40
The Principles of Coloring in Painting ..... 40
The Art of Sketching from Nature ..... 40
Drawing Models and their Uses ..... 40
The Art of Marine Painting in Oil Colors ..... 40
The Art of Landscape Painting in Oil Colors ..... 40
The Art of Portrait Painting in Oil Colors ..... 40
The Elements of Perspective . ..... 40
The Art of Figure Drawing ..... 40
Hints for Sketching in Water Colors from Nature .....  40
The Art of Flower Painting ..... 40
The Principles of Form in Ornamental Art ..... 40
The Art of Miniature Painting ..... 40
Instructions for Cleaning, Repairing, Lining and lestoring Oil Paintings . .....  40
The Art of Painting and Drawing in Colored Crayons ..... 40
A Guide to Painting Photographic Portraits ..... 90
Half-Hour Lectures on Drawing and Painting ..... 40
Practical Instrnctions for Painting on China, etc. .....  50
China and Pottery Painting, by Sparks ..... 40
TEXT B00KS, Etc.
Tawtwine's Pocket Edition of Engineers' Measurements ..... $\$ 5.00$
Hints to Young Painters in Portraiture. By Thomas Sully ..... 1.00
Decorative Design ..... 3.50
Rowney's Various, in 16 Plates, for Crayon Studies ..... 8.00
Herme's Copy Books .....  20
Cassell's Copy Books .....  25
Little Artists ..... 15
Little Painters. .....  30

# NEW CHEAP BOOK OF ALPHABETS, 

FOR SIGN-PAINTERS, DRAUGHTSMEN, ETC.


#### Abstract

This volume is designed to meet the want of a cheap and handy collection of Alphabets suitable for all ordinary purposes. While confessedly inferior in some respects to the very expensive works, yet it has some points of superiority over even these, and, notwithstanding its low price, has become a standard work of reference in the trade. Encouraged by the favorable reception of our first edition, we have issued a new, carefully revised and greatly extended one, which is proving even more popular. Accurate copies of all standard styles of lettering, and a great variety of ornamental styles are included, embracing late novelties just coming into notice. The book is designed as an aid in all classes of work, from the simplest to the most elaborate. Some alphabets are inserted for the special benefit of draughtsmen and designers. Price, 50 Cents.


## Schoenfeld's Dusseldorf Tube Oil Colors.

| Brun Rouge, pe | per tube | \$ . 15 | Jaunde de Gaude, | per tube | \$ . 40 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Blue Celeste, | " | . 30 | Japanisch Gelb, | " | . 35 |
| Cadminm, hell, | ، | 45 | Kobaltblau, No. 0, | 6 | . 40 |
| Cadmium, dunkel, | " | . 45 | 1, | '6 | . 35 |
| Cremserweiss, | ، | . 25 | " ${ }^{\text {², }}$ | ' | . 30 |
| Chromgelb, | ، | . 15 | Laque Robert, 7 and 8, | '6 | . 40 |
| Caput mortuum, | " | .15 | Mineralgelb, | " | . 30 |
| Chinesischer Zinnober, | ' | . 25 | Mangan Braun, | ${ }^{6}$ | . 15 |
| Cassler Braun, | ، | . 15 | Mumie, | " 6 | . 15 |
| Dunkel Ockre, | '6 | . 15 | Madder Braun, | '6 | . 40 |
| Dunkelgruner Zinnober, | " | . 15 | Mineralblau, | " | . 15 |
| Deckgrun, | " | . 15 | Mineralgrun, | '6 | 15 |
| Elfenbeinschwarz, | ، | . 15 | Neapelgelb, | ، 6 | . 15 |
| Goldocker, | ! | . 15 | Neapelroth, | ، 6 | . 15 |
| Gerbranter lichtre Ocre, | " | . 15 | Persish Roth, | " | . 30 |
| " Goldocker, | " | . 15 | Pariserroth, | " | . 30 |
| " Dunkel Ocre, | , | . 15 | Pigment, | '6 | . 30 |
| " Grund Erde, | , | . 15 | Preussisch Braun, | " | . 15 |
| " Ter'a di Sien, | , " | . 15 | Romischer Ocker, | ، | . 15 |
| "6 Uımbra, | 6 | . 15 | Romischer Braun, | ، | . 15 |
| Gelbruner Zinnober, | 6 | . 15 | Schuttgelb, | * | . 15 |
| Grune Erde, | ، | .15 | Stil de Grain Braun, | " | . 50 |
| Halgebrannter Ocker, | " | . 15 | Terra de Sienna, | 6 | . 15 |
| Hell English Roth, | ، | . 15 | Turkisch Roth, | ، | . 30 |
| Hellgruner Zinnober, | ، | . 15 | Umbra, |  | . 15 |
| Indischgelb, | " | . 40 | Ultramarin dunkel, | "6 | . 35 |
| Indisch, Roth hell, | " | . 25 | " Heller, | /6 | . 30 |
| Indisch, Roth dunkel, | ، | . 25 | " Pasrier, | , | . 30 |
| Jaune de Naples rothlich, | 1, | . 15 | Venetianisch Roth, | " | . 15 |
| " Brilliant, hell, | " | . 15 | Vandyke Braun, | " | . 15 |
| " " dunkel, | " | . 15 | Vert Emeraude, | " | . 50 |
| " de Rome, | '6 | . 15 | Wienerroth, | ، | . 30 |

## EDOUARD'S FRENCH TUBE OLL COLORS. BRONZE POWDERS,

Of All Desirable Shades, including Green and White.


## COPPER FOIL, OR TINSEL.



# COLORED FOIL, OR METALLIC PAPER. TIN FOIL. 

 GILT AND SLLVER PAPER.54 and 56 Cornhill, Boston.

## Royal Academy Crayons,

MANUFACTURED ONLY BY

GEO. ROWNEY \& CO.

The great desideratum in Black Drawing Charks is to obtain a material that will work freely and pleasantly without coarseness of grit, having great depth of color in the softest degree, and a more delicate shade of black for the harder degrees.

The Royal Academy Crayons possess those properties to a degree far beyond any other crayons hitherto manufactured, being perfectly free from grit; working smoothly and freely, like the Italian chalk; and, while possessing equal depth with the Conte crayons, have all the delicacy and fineness of a black-lead pencil.

The Royal Academy Crayons have met with very general approval, and have been adopted by all the schools of design and drawing academies in which they have been introduced.

## From H. O'Neili's Guide to Pictorial Art.

"The Royal Academy Chalk works very like the Italian, but is better in color. This is the cheapest and best chalk in use."
Boxes containing One Dozen assorted - Red, White, and Black, or Black only - 25 Cents a Box.

## PEARL, FOR ORNAMENTING.



Scrap per lb. $\$ 5.00$; per oz. . 45

## CARMINES.

PURE CARMINE NO. 4O.
In 1-lb. Bottles or 1-ounce Vials.


## Improved Practical Pentagraph.



This Instrument enlarges or diminishes Portraits, Landscapes, Figures, Machinery, Mathematical and Architectural Drawings, etc., etc. Its accuracy in working, and its finish, are equal to any instrument in the market selling for three times its price.

It combines two longer and two shorter arms moving on two centre pivots. Attached to one of them is a block, that fastens to the drawing-board and remains stationary. The four arms have each forty-nine holes, at graduated distances, numbered from one to fortynine, with a gradnated scale from one-eighth of a size to seven sizes (or eight times larger), on one of them, showing the proportions that each number on the scale will reduce or enlarge the pieture.

When you wish to enlarge, look on the scale for the number denoting the required enlargement, and the number opposite; then adjust the four arms together, all at the same number, by shifting the two steel screws.

Drawings are reduced in the same manner, by changing the Tracing-point and Pencil-holder.

The instrument closes at one size added to the drawing (or making it twice as large) ; the number on all the arms, at the centre pivots, being twenty-six. Price, $\$ 2.00$.

## F. C. HASTINGS \& CO.,

54 and 56 Cornhill, Boston, Mass.

## JUST THE THING WANTED!

## The Standard Scroll Book.

This is a collection of upward of two hundred designs suitable for Painters, Jewellers, Designers, Decorators, Draughtsmen and almost every branch requiring ornamental scroll-work.
It is thoroughly practical, aiming to meet the wants of practical men, rather than to merely present a "pretty book." It is the result of many months' labor, and we feel we are not exaggerating in saying that it is a perfect treasury of useful designs. It must be seen to be appreciated; and we hope every painter will examine it; all we want is to have it examined - it will sell itself.
Prominent features in this book are the Shaded Scrolls and the designs for Sign painters, Wagons and Omnibuses. It is the most comprehensive book of the kind ever issued, and supplies almost every conceivable want in the line of Scrolls.

## PRICE, ONLY ONE DOLLAR.

## Haney's Book of Scrolls and Ornaments.

By J. H. Loudolphe.

This book has been steadily growing in favor. Yts contents are entirely different from those of the Standard Scroll-Book, being principally devoted to Flat ornaments. It is the best one for Car work, but has been found useful in many other branches.

```
PRICE, ONE DOLLAAR.
```

Either or both these books mailed post paid on receipt of price.

# HANEY'S MANUAL or <br> SIGN, CARRIAGE AND DECORATIVE PAINTING. price, fiety cents. 

## PAINTER'S MANUAL.

A new and enlarged edition now ready of this practical guide to House and Sign Painting, Graining, Varnishing, Polishing, Kalsomining, Papering, Lettering, Staining, Gilding, etc.

## PRICE, FIFTY CENTS.

## GILDER'S IMANUAL.

A very complete and thoroughly practical guide to all forms of Gilding as used in different trades. Also complete articles on Silvering, and Picture-Framing and Frame-Making. It also gives some useful instructions on the treatment of pictures, engravings, etc.

PRICE, FIFTY CENTS.

## TEXT B00KS, Etc.

Art of Lettering, . . . . . . . . . each $\$ 3.50$
Becker's Ornamental Text-Book, . . . . . . " 4.50
Copley's Alphabets, Plain and Ornamental, . . . . " 3.00
Dearborn's Text-Book for Letters, . . . . . . " 2.00
Dearborn's Ornaments, Scroll, ete., . . . . . . " 2.00
Prang's Alphabet, . . . . . . . . . " 2.50
Cave on Color, . . . . . . . . . . " 1.00
Cave on Drawing, . . . . . . . . . " 1.00
Barnard's Sketching from Nature, . . . . . . " 10.50
Barnard's Ilandbook of Foreground and Foliage, . . . " 2.50
Harding's Lessons on Art, . . . . . . . . " 6.50
Harding's Lessons on Trees, . . . . . . . " 6.50
Harding's Elementary Art, . . . . . . . " 10.50
Barnard's Landscape Painting in Water Colors, . . . . " 9.00
Prang's State Arms of the Union, . . . . . . " 2.00
Bacon's Theory of Color, . . . . . . . . " 1.25
Mahan's Industrial Drawing, comprising the Description and Uses of
Drawing Instruments, etc. 1 vol. 8vo, cloth,
Minifie's Mechanical Drawing. A Text-Book of Geometrical Drawing, for the use of Mechanies and Schools, in which the Definitions and Rules of Geometry are familiarly explained; the Practical Problems are arranged from the most simple to the more complex, and in their description technicalities are avoided as much as possible. With Illustrations for Drawing Plans, Sections and Elevations of Buildings and Machinery; an Introduction to Isometrical Drawing, and an Essay on Linear Perspective and Shadows. Illustrated by over 200 diagrams, engraved on stecl. With an appendix on the Theory and Application of Colors. 1 vol. 8vo, cloth. 7th ed., 1867, .
Mahan's Elementary Course of Civil Engineering. 8vo, cloth, . . 4.00
Rankine’s Civil Engineering, comprising Engineering Surveys, Earthwork, Foundations, Masonry, Carpentry, Metal-works, Roads, Railways, Canals, Rivers, Water-works, Harbors, etc., with numerous Tables and Illustrations. 6th ed. 1 vol., crown 8vo. London. 1869.
Minifie's Text-Book of Mechanical Drawing. 8vo, cloth, . . . 4.00
Haswell's Engineers' and Mechanics' Pocket-Book. 2d edition, revised
and enlarged to 663 pages. Tuck,
Gillespie's Practical Treatise on Surveying. 1 vol. 8vo. Illustrated, . $\quad 3.00$
Ropes' Linear Perspective, . . . . . . . . . 1.00
Prof. Warren's Linear Perspective. Elementary, . . . . 1.00
" " Projection Drawing, . . . . . . . 1.00
" " Freehand, . . . . . . . . . . 75
" " Plane Problems, . . . . . . . . 1.25
" " Drafting Instruments, . . . . . . 1.25
". " Elements of Machine Construction and Drawing, . . $\quad 7.50$
Boice's Ornaments, . . . . . . . . . . 3.50
Leitch's Water Color, . . . . . . . . . . 2.50
Cassell's Drawing for Mechanics, . . . . . . . 1.00
" Color, . . . . . . . . . . . 1.50
" Drawing for Machinists, . . . . . . . 2.00
" Models, . . . . . . . . . . . 1.50
" Gothic Stone Work, . . . . . . . . 1.50
" Drawing for Cabinet-Makers, . . . . . . 1.50
" Linear Drawing, . . . . . . . . . 1.00
" Projection, . . . . . . . . . . 1.50
" Systematic Drawing and Shading, . . . . . . . 1.00
" Building and Construction, . . . . . . . 1.00
" Drawing for Carpenters and Joiners, . . . . . 175
" Perspective, . . . . . . . . . . 1.50
" Freehand Drawing, . . . . . . . . 3.00
" Practical " . . . . . . . . . 2.50

## Catalogue of Mathematical Instruments.

## CHAPTER I.

Mathematical Instruments of Brass.
FOR SCHOOLS.
00. Wood Dividers, 13 in. long, with crayon holder, for black-board drawing,

| 0. | Do. | 16 | do. | do. | do. | do. | 125 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1. | Do. | 20 | do. | do. | do. | do. | 150 |
| 2. | Do. | 24 | do. | do. | do. | do. | 125 |
| 3. | Do. | 27 | do. | do. | do. | do. | 200 |
| 4. | Do. | 30 | do. | do. | do. | do. | 225 |
| 41 | Do. | 36 | do. | do. | do. | do. | 250 |

5. Brass Dividers, 3 $\frac{1}{2}$ inches long, Screw Joint, . . . . . 25

| 6. Do. | Do. |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 7. | Do. | $5 \frac{1}{2}$ | do. | do. . . . |
| 30 |  |  |  |  |


9. Do. $4 \frac{1}{2}$ do. Rivet Joint, . . . . . 20
10. Do. $5 \frac{1}{2}$ do. do. . . . . . 30
11. Do. $6 \frac{1}{2}$ do. do. . . . . . 35
12. Do. $4 \frac{1}{2}$ do. Screw Joint and Pencil Leg, . 40
13. Do. $5 \frac{1}{2}$ do. do. do. . . 50
13 $\frac{1}{2}$. Do. $6 \frac{1}{2}$ do. do. do. . $\quad 60$
14. Brass Dividers, $4 \frac{1}{2}$ inches long, with Pen and Pencil Points and
Lengthening Bar,
15. Brass Dividers, 6 inches long, with Pen and Pencil Points and
Lengthening Bar,
16. Brass Dividers, Needle Point, $4 \frac{1}{2}$ inches long, with Pen and Pencil Points and Lengthening Bar,


No.
PRICE.
18. Brass Dividers, 3 inches long, with Pen and Pencil Points,
20. Brass Bow Pen, with adjusting Screw and Spring, . . . . 70
21. Brass Bow Pencil, no Spring,

22. Brass Bisecting Dividers, . . . . . . . 60
23. Brass Proportional Dividers, divided for lines, in case, . . . 225
24. Drawing Pen, Black Handle, . . . . . . . . 20
25. Drawing Pen, Ivory Handle, . . . . . . . . 30
26. Roulette for Dotting Lines, . . . . . . . . 65
262. Do. do. with Three Wheels, . . . . 85
27. Furniture for Beam Compass, of Brass, with Adjusting Screw, in
Morocco Case,
50
28. Double Drawing or Railroad Pen, for Parallel Lines, Brass Mounted, 225
29. Fox's Patent Lead Holder, for pencil leg of Dividers, . . . 25

## Cases of Brass Drawing Instruments.

FOR SCHOOLS.

48.


4!.
48. Wood Box ; containing pair $4 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points, and Crayon Holder, .
49. Wood Box; containing pair $4 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar, No. 14. Ebony Handle Drawing Pen, No. 24.
Crayon Holder, Horn Protractor and Divided Rule,


50 and 51.

5.).
50. Wood Box; containing pair of $4 \frac{1}{2}$ inch Dividers, with Pen a:s ?

Pencil Points and Lengthening Bar, No. 1t.
Pair of $3 \frac{1}{2}$ inch Plain Dividers, No. 5 .
Drawing Pen, No. 24.
Horn Protractor, No. 301.
Crayon Holder and Divided Rule,
$\therefore 1$. Rosewood Box; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen and
Pencil Points and Lengthening Bar, No. 15.
Pair of $4 \frac{1}{2}$ inch Plain Dividers, No. 6.
Drawing Pen, No. 24.
Crayon Holder, Horn Protractor and Divided Rule,
52. Same as No. 51, with Parallel Ruler,

No.
Price.
55. Rosewood Box; containing pair of 6 inch Dividers, with Pen and Pencil Points and Lengthening Bar, No. 15. Pair of $4 \frac{1}{2}$ inch Plain Dividers, No. 6.
Pair of $3 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
Drawing Pen, No 24.
Brass Protractor, No. 306.
Horn Protractor, No. 301.
Divided Wood Rule,
$\$ 265$
56. Same as No. 55, but with the instruments set in a tray, so that colors, \&c., may be put below, .

b7. Rosewood Box; containing pair of 6 inch Needle Point Dividers, with Pen and Peucil Points and Lengthening Bar, No. 17.
Pair of $4 \frac{1}{2}$ inch Plain Dividers, No. 6.
Pair of $3 \frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points. Drawing Pen, No. 24.
Brass Protractor, No. 306.
Horn Protractor, No. 301.
Divided Wood Rule,

58.
58. Same as No. 57, but with Lock and Key, and the instruments set in a tray, so that colors may be put below,

62.

No.
Price.

64.
64. Same as No. 62, with the addition of a pair of Proportional Dividers; has no Brass Protractor, but has Wood Triangle and Irregular Curves,

## CHAPTER II.

## Mathematical Instruments of German Silver.

FOR ACCURATE DRAFTING.


65.

69.

$71 \frac{1}{2}$

72.


73. Dividers, German Silver, 6 inches long, Steel Joints, with P'en, l'encil, and Needle

Points and Lengthening Bar,
74. Dividers, German Silver, 5 inehes long, Steel Joints, with Shield for Pocket, : 150
75. Dividers, German Silver, 5 inehes long, Steel Joints, with Three Legs, . . 356



No.
80. Furniture for Beam Compasses, German Silver, with Adjusting Screw in Moroceo Case $\$ 650$
81. Bow Pen, all Stecl, with Spring and Adjusting Screw,
82. Bow I'en, German Silver, with Spring and Adjusting Screw, . . . . 162
83. Bow Pen, German Silver, with Spring and Adjusting Screw, and with Pencil Point, 250




For Boxwood and Irory Scales, Protractors, \&c., \&c., see pages 23 to 29.
Parties wanting cases made up of these Instruments, can select the pieces by the above list, that are best adapted to their purpose, and we will have boxes made to suit, at an additional cost of from $\$ 5$ to $\$ 12$, according to the sizes of the boxes, which are made of rosewood, mahogany or walnut, highly finished.

## Cases of Fine German Silver Instruments.

FOR ENGINEERS, ARCHITECTS AND MACHINISTS.

100. Moroceo Box ; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, and Pencil Points.
Drawing Pen No. 88,

101. 

> 101. Morocco Box; containing pair of 3 inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 72.
> Drawing Pen, No. 89, .
102. Morocco Box ; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
Pair of 5 inch Plain Dividers, No. 66. Drawing Pen, No. 88, .
1032. Same as No. 103, but with Polished Walnut Box, with Loek and

Key and Tray,

No.
Price.
104. Morocco Box, rounded corners, for carrying in the pocket; containing pair of 4 委 inch Dividers, with Hinge in one Leg, Needle Points, with Pen and Pencil Points and Lengthening Bar.
Pair 4 inch Plain Dividers, Rounded Points.
Spring Bow Pen, Needle Point.
Drawing Pen, Ivory Handle.
5 inch Ivory Rule, divided to eighths,
105. Morocco Box; containing pair $5 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of 5 inch Plain Dividers, No. 66.
Pair 3 inch Dividers, with Pen and Pencil Loints.
Drawing Pen, No. 89.
German Silver Protractor, No. 310.
German Silver Square,
1052 $\frac{1}{2}$. Same as No. 105, but with Polished Walnut Box, with Lock and Key and Tray,
106. Moroceo Box; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 73.
Pair 5 inch Plain Dividers, No. 66.
Spring Bow Pen, No. 82.
Drawing Pen, No. 89,
$106 \frac{1}{2}$. Same as No. 100 , in Polished Wahnut Box, with Lock and liey and Tray, .
1063. Moroceo Box ; containing pair 6 inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 73.
Pair 5 inch Plain Dividers, No. 66.
Pair Spacing Dividers, No. 78.
Bow Pen, No. 81.
Bow Pencil, No. 84.
Drawing Pen No. 88,

107.
107. Moroceo Box; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 73.
Pair of 5 inch Plain Dividers, No. 66.
Yair of 3 inch Dividers, with Pen, Pencil and Needle Point, No. 72.
2 Drawing Pens, No. 89.
German Silver Protractor, No. 310.
German Silver Square,
108. Same instruments as No. 107, in Polished Walnut Box, with Lock and Key and Tray,

No. Price.
109. Polished Walnut Box; containing pair $5 \frac{1}{2}$ incl Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 73. Pair 5 inch Plain Dividers, No. 66. Pair of 3 inch Dividers, with Pen, Pencil and Needle Points No. 72. Spring Bow Pen, with Needle Point, No. 82. 2 Drawing Pens, No. 89. German Silver Square. German Silver Protractor, No. 310, ..... $\$ 1250$
1091. Same as No. 109, in Polished Walnut Box, with Lock and Key and Tray, . ..... 1350
110. Polished Walnut Box ; containing pair $5 \frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar, No. 73. Pair of 5 inch Plain Dividers, No. 66. Pair of 5 inch Hair Spring Dividers, No. 70.
Pair of 3 in. Dividers, with Pen, Pencil and Needle Points, No. 72. Spring Bow Pen, with Needle Point, No. 82.
2 Drawing Pens No. 89.
German Silver Square.
German Silver Protractor, No. 310, ..... 1500
111. Same instruments as No. 110, set in a Tray, and Box with Lock and Key, thus affording space for extra instrmments or colors, . ..... 1550
112. Polished Walnut Box, with Lock and Key and Tray; containingpair 6 inch Dividers, with Pen, Pencil and Pen Point andLengthening Bar, No. 73.
Pair 5 inch Plain Dividers, No. 66.
Pair 5 inch Hair Spring Dividers, No. 70.
Pair 3 inch Dividers, with Pen, Pencil and Needle Point, No. 72.
Bow Pen, No. 82.
2 Drawing Pens, No. 89.
1 Red Ink Pen, No. 91.
1 Road Pen No. 93.
Pair Proportional Dividers, No $75 \frac{1}{2}$.
Protractor, No. 311.
Triangle, No. 565.Triangular Scale, No. 463 or 466 ,2600
113. Same as No. 112, with addition of Beam Compass, No. 80, ..... 3100

114.

No.
Price.
114. Polished Rosewood Box, Inlaid, Lock and Key, with Tray, leaving space below for paints, rules, \&c.; containing pair $6 \frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair $4 \frac{1}{2}$ inch Plain Dividers.
Pair of 4 inch Needle Point Dividers, with Pen and Pencil Points.
Pair of 7 inch Proportional Dividers.
3 Drawing Pens.
Horn Protractor.
1 Wood Curve and 2 Wood Squares.
Spring Bow Pen.
Ivory Rule, 8 inches long, . . . . . . . . $\$ 2700$
116. Polished Rosewood Box, Inlaid, with Brass Edges, Lock and Key, with Tray, leaving space below for paints, rules, \&e. ; containing pair of 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair $4 \frac{1}{2}$ inch Plain Dividers, Rounded Points.
Pair of 4 inch Dividers, Needle Points, with Pen and Pencil Points.
Pair of $7 \frac{1}{2}$ inch Proportional Dividers.
Spring Bow Pen, Needle Point.
3 Drawing Pens.
Furniture for Beam Compass, with Micrometer Screw.
9 inch Horn Protractor.
Ivory Seale, 8 inches long, one edge divided to inches and eighths, the other to centimeters and millimeters,

## Cases of French German Silver Instruments.

IN ROSEWOOD BOXES.

129.

No.
Price.
129. Rosewood Box ; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of $4 \frac{1}{2}$ inch Plain Dividers.
Drawing Pen.
Horn Protractor, . . . . . . . . . . $\$ 350$

130.
130. Rosewood Box; containing pair of 6 inch Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of $4 \frac{1}{2}$ inch Plain Dividers.
Pair of $3 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points.
Drawing Pen.
Brass Protractor.
Horn Protractor,
131. Same as No. 130, but with the instruments set in a Tray, so that colors, \&c., may be put below,


No.
Price.
132. Rosewood Box, with Lock and Key, and the instruments set in a Tray, so that colors, \&c., may be put below; containing pair of 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of $4 \frac{1}{2}$ inch Plain Dividers.
Pair of $3 \frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points. Drawing Pen.
Brass Protractor.
Horn Protractor,
133. Rosewood Box, with Lock and Key, the instruments set in a Tray, so that colors, \&c., may be put below ; containing pair of 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of $4 \frac{1}{2}$ inch Plain Dividers.
Pair of $3 \frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points. Spring Bow Pen, with Needle Point.
Drawing Pen.
Brass Protractor.
Horn Protractor, . . . . . . . . . . 750
134. Rosewood Box, with Lock and Key, the instruments set in a Tray, so that colors, \&c., may be put below ; containing pair of 6 inch Needle Point Dividers, with Pen and Pencil Points and Lengthening Bar.
Pair of $4 \frac{1}{2}$ inch Plain Dividers.
Pair of $3 \frac{1}{2}$ inch Needle Point Dividers, with Pen and Pencil Points. Spring Bow Pen, with Needle Point.
Drawing Pen.
German Silver Protractor.
Horn Protractor
Irregular Curve of Wood.
2 Triangles of Wood.
Pair Proportional Dividers, $7 \frac{1}{2}$ inches long, .

# CHAPTER III. <br> Celebrated Swiss Drawing Instruments. 

GERMAN SILVER.

Although there are several makers of drawing instruments in Switzerland, yet there is but one manufacturer whose instruments uniformly come up to a standard of absolute perfection in quality of material and excellence of finish. The divider joints work regularly and smoothly, the points are carefully tempered and rounded, the pens dressed to draw a smooth line of any thickness in whatever position held.
Other Swiss manufacturers imitate the form of these instruments, but cannot imitate their perfection in finish.



159. Proportional Dividers, $6 \frac{1}{2}$ inches long, finely graduated for lines, 160. Proportional Dividers, $6 \frac{1}{2}$ inches long, finely graduated for lines and polygons,
$\$ 800$
900
161. Proportional Dividers, $\dot{0}$ inches long, finely graduated for lines and polygons,

1000
162. Proportional Dividers, 9 inches long, with Micrometer Adjustment, finely graduated for lines and polygons,

1200
163. Proportional Dividers, 8 inches long, with rack adjustment, graduated for lines, .
164. Bisecting Dividers, $7 \frac{1}{2}$ inches long, each, . . . . . 425425


174.

No.
Price.
170. Beam Compass, 20 inches long, in 2 bars, with Pen, Pencil, and two Straight Points,
$\$ 1150$
171. Beam Compass, 21 inches long, in 3 bars, . . . . . 1300
172. Do. 36 do. 4 do. . . . . . 1900
173. Do. 54 do. 4 do. . . . . . 2250
174. Furniture for Wood Bar Beam Compasses, in Morocco Box, . . 700
175. Furniture for Wood Bar Beam Compasses, not in Morocco Box, . 675
179. Pillar Compasses, or Pocket Set of Instruments, with Points to change,
180. Pillar Compasses, or Pocket Set of Instruments, with Points to change, and Handles to Bow Pen and Pencil,
181. Pillar Compasses, or Pocket Set of Instruments, with Points to turn $\quad \begin{aligned} & 7 \\ & 7\end{aligned}$

182.

183.

184.

185.
182. Spring Bow Pen, all Steel, Ivory Handle, ..... $\$ 200$
1822. Very Delicate Steel Bow Pen, $2 \frac{1}{2}$ inches long, ..... 200
183. Spring Bow Pen, with Needle Point, all Steel, Ivory Handle, ..... 240
184. Do. do. German Silver, . ..... 200
185. Do. do. do. with Pencil Point, ..... 300 ..... 300

191.

192.

193.
191. Road, or Double Drawing Pen, . . . . . . . 375
192. Do. do. do. with Joint in each side, . . 300
193. Dotting Pen, with one Wheel, . . . . . . . 200

54 and 56 Cornhill, Boston.

## CHAPTER IV.

## Alteneder's Patent Joint Drawing Instruments.

The excellency of these instruments consists in the joints of the dividers being so constructed as to prevent any irregular motion when the legs are opened or closed, also for the general care with which the instruments are finished.

All the pens are thoroughly well made and pointed. No. 275 represents a sectional view of Alteneder's Patent Joint Divider Head.

275.


276 .

278.

279.

281.



## Extra Finished German Silver Drawing Instruments.

We have lately added to our complete assortment of Mathematical Instruments a new make which we particularly recommend for their superior finish and the extra quality of material used in their manufacture. We would call the attention of Students and Draughtsmen to the sets Nos. $106^{3}$ and 107, as they contain only such Instruments as are necessary for practical use.

No.
100. Morocco Box ; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, and Pencil Points, and Drawing Pen,$\$ 3.00$
101. Morocco Box ; containing pair of 3 inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar and Drawing Pen,
102. Morocco Box; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points ; pair of 5 inch Plain Dividers, and Drawing Pen,4.00
103. Morocco Box : containing pair of Dividers 6 inches long, with Pen, Pencil and Needle Point and Lengthening Bar ; pair Plain Dividers, 5 inches long, and Drawing Pen,
105. Morocco Box ; containing pair $5 \frac{1}{2}$ inch Dividers, with Pen and Pencil Points and Lengthening Bar; pair of 5 inch Plain Dividers; pair 3 inch Dividers, with Pen and Pencil Points, and Drawing Pen,
106. Morocco Box; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar; pair 5 inch Plain Dividers, Spring Bow Pen, Drawing Pen,7.00
1063. Morocco Box; containing pair 6 inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar ; pair 5 inch Plain Dividers, pair Spacing Dividers, Bow Pen, Bow Pencil, Drawing Pen, .
107. Morocco Box ; containing pair of $5 \frac{1}{2}$ inch Dividers, with Pen, Pencil and Needle Points and Lengthening Bar; pair of 5 inch Plain Dividers, pair of 3 inch Dividers, with Pen, Pencil and Needle Point, 2 Drawing Pens,

Price.
3.00
Separate Instruments.
No.Price.
8. Dividers, German Silver, 6 inches long, Steel Joints, with Pen, Pencil and Needle Points and Lengthening Bar, ..... $\$ 3.25$
9. Dividers, $6 \frac{1}{2}$ inches long, joints in each leg, with Pen, Pencil, Needle Points and Lengthening Bar, ..... 4.00
10. Lithograph Dividers, with Bow Circle, Pen and Pencil and Micro- meter Adjustment, ..... 12.00
14. Dividers, German Silver, 3 inches long, with Pen, Pencil, and Needle Points, ..... 2.50
27. Spacing Dividers, all Steel, with Spring and Adjusting Screw, 3 inch, ..... 1.50
28. Steel Bow Pencil, 3 inches long, with Needle Point, ..... 1.75
29. Steel Bow Pen, 3 inches long, with Needle Point, ..... 1.75
30. Steel Spacing Dividers, 5 inches long, with Metal Handle, ..... 2.25
35. Proportional Dividers, $6 \frac{1}{2}$ inches long, finely graduated for lines, ..... 4.25
36. Proportional Dividers, $6 \frac{1}{2}$ inches long, finely graduated for lines and circles, ..... 8.50
37. Proportional Dividers, finely graduated for lines and circles, Rack Adjustment, ..... 9.00
38. Proportional Dividers, finely graduated for lines and circles, 9 inches long, with Micrometer Adjustment and rack, ..... 11.00
40. Beam Compass, Adjusting Screw, Pen and Pencil Points, ..... 8.00
42. Beam Compass, Adjusting Screw, Pen and Pencil Points, with bar, ..... 9.00
52. $5 \frac{1}{2}$ inch Dividers, with graduated bow circle, ..... 2.50
61. Ruling Pen, $5 \frac{1}{2}$ inch, with hinge and pin, ..... 75
62. Ruling Pen, $5 \frac{1}{2}$ inch, with hinge, .....  65
63. Ruling Pen, 5 inch, with hinge and pin, ..... 1.00
64. Ruling Pen, 4 inch, with hinge and pin, ..... 85
65. Ruling Pen, 4 inch, with hinge, ..... 65
66. Ruling Pen, 5 inch, .....  50
67. Ruling Pen, $5 \frac{1}{2}$ inch, with pin, ..... 65
70. Ruling Pen, with 3 adjustable points, ..... 1.25
71. Ruling Pen, with 5 adjustable points, ..... 2.00
44. Bisecting Dividers, German Silver, ..... 2.50
45. Bisecting Dividers, German Silver, ..... 2.25
57. Dividers, German Silver, 4 inches long, steel joints, with hair spring, ..... 1.50
58. Dividers, German Silver, 5 inches long, steel joints, with hair spring, ..... 1.75
59. Dividers, German Silver, 6 inches long, steel joints, with hair spring, ..... 2.00
50. Plain Dividers, 5 inches long, each, ..... 1.00
51. Plain Dividers, 6 inches long, each, ..... 1.25

## CHAPTER V.

## Protractors of Horn, Brass, and German Silver.


370.


## Paper Protractors.

320. Whole Circle Protractors, 8 or 13 inches diameter, laalf degrees,on Drawing Paper, printed in red or black, each, .30321. Same as No. 320, on Bristol Boards, each, ..... 40
322. Same as No. 320 , on Vegetable Tracing Paper, ..... 25
323. Half Circle Protractor, 5 inches diameter, half degrees, on Bristol Boards, each, ..... 25

## Extra Fine Swiss Protractors.



## Extra Fine Swiss Protractors of German Silver, with Arms.


350.
350. German Silver Protractor, 5 inches diameter, half circle, with Arm and divided in half degrees,
Price.
351. German Silver Protractor, 6 inches diameter, half cirele, with Arm and divided in lialf degrees, ..... 750
352. German Silver Protractor, 7 inches diameter, half circle, with Arm and divided in half degrees, ..... 900
354. German Silver Protractor, 8 inches diameter, half circle, with Arm and divided in lialf degrees, ..... 1200
360. German Silver Protractor, 5 inches diameter, whole circle, with Arm and divided in half degrees, ..... 1000
361. German Silver Protractor, 6 inches diameter, whole circle, with Arm and divided in half degrees, ..... 1200
362. German Silver Protractor, 7 inches diameter, whole circle, with Arm and divided in half degrees, ..... 1400
363. German Silver Protractor, 8 inches diameter, whole circle, with Arm and divided in half degrees, ..... 1600

## Extra Fine Swiss Protractors of German Silver,

## With Arms and Verniers.


370.

No.
Price.
370. Protractor, $5_{2}^{1}$ inches diameter, half circle, half degrees, with vernier reading to three minutes, $. \quad . \quad$. 371. Protractor, 8 inches diameter, half circle, quarter degrees, with vernier reading to one minute, . . . . . . .
372. Protractor, 10 inches diameter, half circle, quarter degrees, with


$$
\begin{aligned}
& \text { 373. Protractor, } 5 \frac{1}{2} \text { inches diameter, whole circle, half degrees, with } \\
& \text { vernier reading to three minutes, }
\end{aligned}
$$

374. Protractor, 8 inches diameter, whole circle, quarter degrees, with vernier reading to one minute,
375. Protractor, 10 inches diameter, whole circle, quarter degrees, with vernier reading to one minute,

# CHAPTER VI. Sectors, Scales, and Protractors. 


401.
No.

Price.

400. Ivory Sector, 6 inches long, opens to 12 inches long,
-2 25
401. Ivory Scale, 6 inches long, for school drawing, 75
402. Ivory Chain Scales, 12 inches long, graduated on two edges with either 10 and 10 parts, or 10 and 20 , or 20 and 40 , or 30 and 50 , or 40 and 60 , or 50 and 60 , each,

| 403. Do. do. do. with 40 and 80 , or 50 and 100 , each | 5 | 25 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 404. | Do. do. | do. with 80 and 100 , each, | 5.5 |

405. Ivory Off Set Scales, 2 inches long, 10 by 10,10 by 20,20 by 40 , 30 by 50,40 by 60 , each,65

## Architects' Ivory Scales.



406
406. Ivory Scale, 12 inches long, with 16 scales as follows: $\frac{1}{8}, 3-16, \frac{1}{4}, \frac{3}{8}$, $\frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1,1 \frac{1}{4}, 1 \frac{1}{2}, 1 \frac{3}{4}, 2,2 \frac{1}{2}, 2 \frac{1}{2}$ and 3 inches to the foot, the first division of each scale subdivided in 12 parts, each,
407. Same as No. 406, but with the first division of each scale subdivided into 10 parts, each,
408. Ivory Scale, 12 inches long, with 12 scales, as follows: $\frac{1}{8}, 3-16, \frac{1}{4}$, $\frac{3}{8}, \frac{5}{8}, \frac{7}{8}, 1,1 \frac{1}{4}, 1 \frac{1}{2}, 13,2$ and 3 inches to the foot, the first division of each scale subdivided into 12 parts, diagonal scale reading to 1-100 and 1-200 of an inch, each,
40\%. Same as No. 408 , but has the first division of each scale subdivided
into 10 parts, each,
410. Ivory Scale, 12 inches long, one side rounded the other flat, with the following scales, the graduations of which are all brought to the edge : $1-16, \frac{1}{8}, 3-16, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{8}{8}, \frac{3}{4}, \frac{7}{8}, 1,1 \frac{1}{1}, 1_{2}^{\frac{1}{2}}, 1_{4}^{3}, 2,2 \frac{1}{2}$ and 3 inches to the foot, the first division of each scale is subdivided into twelve parts, each,
411. Same as No. 410, but the first division of each scale subdivided into ten parts, each,
412. Flat Ivory Scale, 6 inch, div. $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}, I$ inch to the foot, each,
413. 1). do. 12 do. $\frac{1}{x}, \frac{1}{4}, \frac{1}{2}, 1$ do. do. 325
414. Do. do. 12 do. $\frac{3}{8}, \frac{3}{4}, 1 \frac{1}{2}, 3$ do. do. 325

54 and 56 Cornhill, Boston.

## Ivory Protractors.


425. Front Side.

425. Reverse Side.

No.
1

## Price.

425. Ivory Rectangular Protractor, 6 inches long, $1 \frac{3}{3}$ inches wide, with scales as follows : front sides divided around edge from 0 to 180 degrecs in single degrees, seales of $\frac{1}{4}, \frac{1}{2}, \frac{3}{3}$ and 1 inch to the foot, and scale of chords. Reverse side scales of 30,35 , $40,45,50$ and 60 parts to the inch, scale of chords and diagonal scale of inches and 1-100ths,
4~6. Ivory Rectangular Protractor, 6 inches long by $1 \frac{3}{4}$ inches wide, with seales as follows: front side, the edge divided in single degrees from 0 to 180 degrees, scales of $\frac{1}{3}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{6}{8}, \frac{3}{4}, \frac{7}{8}$ and 1 inch to the foot, and scale of chords. On the reverse side, scales of $30,35,40,45,50$ and 60 parts to the inch, scale of chords and diagonal scale of $1-100$ ths,
42\%. Ivory lectangular Protractor, 6 inches long by 2 inches wide, with scales as follows : front side, the edge divided in single degrees from 0 to 180 degrees, 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, and line of 40 parts on lower edge. On the reverse side, scales of $20,25,30,35,40,45,50,60$ parts to the inch, diagonal scale of $1-100$ the, rory Rectangular Protractor, same as No. 427 , but has the Protractor ${ }^{\circ}$. vory Rectangular Protractor, same as No. 427, but has the Protractor divided in $\frac{1}{2}$
426. Ivory Rectangular Protractor, 6 inches long by $2 \frac{1}{4}$ inches wide, with scales as follows : front side, the edge divided in half degrees from 0 to 180 degrees, seales of $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1,1 \frac{1}{8}, 1 \frac{1}{4}, 1 \frac{3}{8}, 1 \frac{1}{2}$ inches to the foot, seale of chords, and seale of 40 parts on lower edge. Reverse side, scales of $10,15,20,25,30,35,40,45,50,60$ parts to the inch, and diagonal seale of $1-100 \mathrm{th}$,
40う. Ivory Rectangular Protractor, 6 inehes long by $2 \frac{1}{2}$ inches wide, with scales as follows: front sicle, the edge divided in $\frac{1}{2}$ degrees from 0 to 180 degrees, seales of $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{3}, \frac{3}{3}, 7,1,1 \frac{3}{3}, 1 \frac{1}{4}, 1_{3}^{3}, 1 \frac{1}{2}$ inches to the foot, scale of chords, and scale of 40 parts on lower edge. Reverse side, scales of $20,25,30,35,40,45,50$ and 60 parts to the inch, 2 scales of chords, scales of latitudes, sines, tangents, hours, longitudes, sceants, rhombs,
427. Ivory lectangular lrotraetor, 8 inches long by 2 inches wide, with scales as follows : front side, the edge divided in $\frac{1}{2}$ degrees from 0 to 180 degrees, scales of $\frac{1}{8}$, $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{6}, \frac{3}{4}, \frac{7}{8}, 1$ inch to the foot, scale of chords and scale of 40 parts on lower edge. Reverse side, scales of $30,35,40,45,50,60$ parts to the inch, scale of chords and diagonal scale of $1-100$ ths,
428. Ivory Rectangular Protractor, 12 inches long by $2 \frac{1}{2}$ inches wide, with scales as follows: the edge divided in $\frac{1}{2}$ degrees from 0 to 180 degrees, scales of $\frac{1}{8}, \frac{1}{4}, \frac{3}{1}, \frac{1}{2}, \frac{5}{8}, \frac{3}{3}$,
 scales of $10,15,20,25,30,35,40,45,50,60$ parts to the inch, seale of chords and diagonal scale of $1-100$,

## CHAPTER VII.

No.
Price.
450. Boxwood Protractor', 6 inches long, 13 inches wide, whole degrees, with 6 scales of equal parts, 4 scales of feet and inches, 2 seales of chords, and diagonal seale,
$\$ 0 \quad 50$
451. Boxwood Scale, 6 inches long, for School Cases of Instruments,
452. Boxwood Chain Scale, 12 inches long, graduated on two edges with either 10 and 10 parts, or with 10 and 20 parts, or with 20 and 40 parts, or with 30 and 50 parts, or with 40 and 60 parts, or with 50 and 60 parts, .
453. Boxwood Off-set Seales, 2 inches long, graduated 10 by 10, 10 by 20,20 by 40,30 by 50,40 by 60 , each,

4.4
454. Boxwood scale, 12 inches long, with 16 scales, as follows : $\frac{1}{8}, 8-16$. $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1,1 \frac{1}{4}, 1 \frac{1}{2}, 1 \frac{3}{4}, 2,2 \frac{1}{4}, 2 \frac{1}{2}$ and 3 inches to the foot, the first division of each scale subdivided in 12 parts, each,
455. Same as No. 454 , but with the first division of each scale subdivided into ten parts, each, .
456. Boxwood Scale, 12 inches long, with 12 seales, as follows: $\frac{1}{8}, 3-16$, $\frac{1}{4}, \frac{3}{4}, \frac{5}{8}, \frac{7}{8}, 1,1 \frac{1}{4}, 1 \frac{1}{2}, 1 \frac{3}{1}, 2$ and 3 inches to the foot, the first division of each scale subdivided into 12 parts, and diagonal scale reading to $1-100$ th and $1-200$ th of an inch, each,
457. Same as No. 456, but has the first division of each seale subdivided into 10 parts, each,
45s. Boxwood Scale, 12 inches long, one side rounded, the other flat, with the following seales, the graduations of which are all brought to the edge : $1-16, \frac{1}{8}, 3-16, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1,1 \frac{1}{4}, 1 \frac{1}{2}, 1 \frac{3}{4}$, $2,2 \frac{1}{2}$ and 3 inches to the foot, the first division of each scale subdivided into 12 parts, each,
459. Same as No. 458, but hat the first division of each scale subdivided into 10 parts, each,


4:9) 1.



No.
Price.
460. Triangular Scale of German Silver, Silver-plated, 12 inches long, graduated, $\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$ and 1 inch to the foot, each,
461. Triangular Scale of German Silver, Silver-plated, 12 inches long, graduated $10,20,30,40,50$ and 60 to the inch, each,


462
462. 'Triangular Scale of Boxwood, 24 inches long, graduated 10, 20, 30, 40,50 and 60 to the inch ; or $20,30,40,50,60$ and 80 to the inch,
463. Do. do. do. do. 12 inch, 463 $\frac{1}{2}$ Do. do. 12 inches long, graduated 100, 200, $300,400,500,600$ to the foot, each, .
464. Do. do. 6 inches, graduated same as No. 462,
$464 \frac{1}{2}$. Triangular Scales of Boxwood for Off-sets, 2 inchęs long, 10, 20, $30,40,50$ and 60 parts,


465
465. 'Triangular Scale of Boxwood, 24 inches long, graduated 3-32, 3-16, $\frac{1}{8}, \frac{1}{4}, \frac{3}{5}, \frac{1}{2}, \frac{3}{4}, 1,1 \frac{1}{2}, 3$ inches and 16 ths to the foot,
466. Do. do. do. 12 inches long, 200
467. Do. do. do. $\quad$ do $\quad 6 \quad$ do. 150

Boxwood Triangular Scales, 6 and 12 inches, put in strong paper boxes, and mailed to any address ut an additional cost per scale of 25 cents.

## Paper Scales.

480. Paper Scale, printed on card-paper, $1 \frac{1}{4}$ inch wide, 12 inches long, graduations on one edge inches and loths, and the other feet and 100ths,
481. Paper Scale, same as 480 , one edge 20 parts to the inch, the other edge 40 ,
482. Paper Scale, same as 481, one edge inches and sixteenths, the other edge inches and forty-eighths,
48\%. Paper Scales, printed on card-paper, 19 inches long, for architects and engineers, in sets of 6 scales, per set,
Scries A contains 6 scales, one each, divided to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1,1 \frac{1}{2}$, and 3 inches to the foot.
Series B contains 6 scales, one each, divided to $3-32, \frac{1}{8}, 3-16,5-16$, $\frac{3}{8}$, and $\frac{7}{8}$ inch to the foot.
Series C contains 6 scales, one each, divided to $10,20,30,40,50$, and 60 parts to the inch.
483. Single Scale of any of the above series, A, B, C-each scale, . 20
484. Paper Scales, same as 483 , divided either to $\frac{5}{8}, 1 \frac{1}{8}, 1 \frac{1}{4}$, or $1 \frac{3}{8}$ inches to the foot, each,
The advantages of these scales are-they expand and contract nearly the same as drawing-paper, do not soil the work, and distances can be set off from them without the use of dividers.
We manufacture to order Scales to any divisions, in Irory, Boxwood, Whitewood, or Rubber.

## Improved Trammel Points.


532.

These tools are used by all machinists and mechanics who have occasion to strike ares or cireles larger than can be done by compass Dividers. They may be used on a straight wooden bar of any length, and when secured in position by the thumb-screws, all circular work can be readily laid out. They are made of bronze, and have steel points, either of which can be renewed, and replaced by pencil socket, which accompanies each pair.

| No. |  |  |  |  |  |  |  |  | Price. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 531. Small (No. 1), per pair, . |  |  | - |  | - | - | - |  | \$150 |
| 532. Medium (No. 2), per pair, |  | . | . | - | - | - | - | - | 200 |
| 533. Large (No. 3), per pair, |  |  |  |  |  |  |  |  | 275 |

## Irregular Curves.


649. Whitewood Irregular Curves, $\check{a}$ to 15 inches long, various patterns, 20 to 40 cents eacl.

## CHAPTER IX.

## Triangles, Curves, Drawing Boards, Fastening Tacks, Horn Centres, T Squares, Pentagraphs, and Parallel Rulers.


560. Pearwood Triangles, $30^{\circ} \times 60^{\circ} \times 90^{\circ}$ 5 or $6 \frac{1}{8}$
10 cents.
561. 1'earwood Triangles, $45^{\circ} \times 45^{\circ} \times 90^{\circ}$

4,5 , or 6 inch,
15 cents.


8 or $9 \frac{1}{2}$ 15 eents.

11 or 12 inches long. 20 cents.

7 or 8 inches long. 20 cents.
562. Pearwood or Cherry Triangles, framed open eentre, $80^{\circ} \times 60^{\circ} \times 90^{\circ}$

| 6 | 8 | $9 \frac{1}{2}$ | 11 | 13 | 15 | 20 inehes long. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\$ .20$ | .25 | .25 | .30 | .40 | .65 | 1.00 |

63. Pearwood or Cherry Triangles, framed open centre, $45^{\circ} \times 45^{\circ} \times 30^{\circ}$

64. Pearwood or Cherry rimagles, framed opell centre, to $x+0.0$ 1.00
65. Mahogany or Wralhut 'riangles, Ebony or Maple Limet, fimmed open centre, $30^{\circ} \times 6^{\circ} 0^{\circ}$ x $90^{\circ}$

$\begin{array}{llll}-0 & .50 & 1.00 & 1.25\end{array}$
66. Mahogany or Walmat 'Jriangles, Ebong or Maple lined, framed open centre, $45^{\circ} \times 45^{\circ}$ x $90^{\circ}$ $\begin{array}{ccccccc}5 & 6 & 5 \frac{1}{2} & 9 & 11 & 13 & 15 \text { inches long. } \\ \$ .50 & .60 & -10 & .80 & 1.00 & 1.20 & 1.75 .\end{array}$

## Hard Rubber Triangles and Curves.


600.

603.

60\%. Hard Pabber Triangles, ingles 4.5 , 4. and 90 degrees.


600. Hard Rubber Triangles, angles 30,60 , and 90 degrees. Single Jemplets, 50



54 and 56 Cornhill, Boston.

## T Squares.



No.
702. Pearwood 'T Square, fixed head.

| 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 70 inches long. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| .35 | .45 | .50 | .60 | .75 | .85 | $\$ 1.00$ | 1.25 | 2.00 |

703. Pearwood 'T Square, shifting head.

| 20 | 25 | 30 | 35 | 40 | 50 | 70 inches long. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 81.00 | 1.10 | 1.20 | 1.35 | 1.50 | 1.75 | 2.50 |

704. Maple Blade, Black Walnut Head, fixed.

| 20 | 25 | 30 | 35 | 50 | 60 incles long. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| .65 | .75 | .85 | $\$ 1.00$ | 1.25 | 1.60 |

705. Maple Blade, Black Walnut Head, shifting.

$$
\begin{array}{ccccc}
20 & 25 & 30 & 40 & 55 \text { inches long. } \\
\$ 1.10 & 1.25 & 1.40 & 1.60 & 2.00
\end{array}
$$

706. Iblack Walnut 'T' Squares, White Hard Maple lined Blades, fixed.

| 25 | 30 | 35 | 50 | 60 inches long- |
| :---: | :---: | :---: | :---: | :---: |
| $\$ 1.00$ | 1.15 | 1.25 | 1.75 | 2.50 |

707. Black Walnut 'T' Squares, White Mard Maple Lined Blades, shifting head. $2.530 \quad 35 \quad 40 \quad 48 \quad 5 t \quad 60 \quad 72$ inches long.

| $\$ 1.50$ | 1.60 | 1.75 | 2.00 | 2.25 | 2.50 | 3.00 | 4.00 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

711. Rubber Blades, Black Walnut Mead, fixed and shifting.

## Parallel Rulers.


750.



No.
681.

Prics.
681. Drawing Table, Black Wrahnt Top, 22 by 26 inches, instrument shelf 7 by 26 inches, two instrument drawers, ornamented iron stand, mounted on eastors, cach,
6S2. Similar to No, 67s, top of selected, Polished Walnut, Iron Stand, Bronzed and tantefully Ornamented,
These tables, suitable for architects' offies, counting-rooms, s.e., or for home use, can be readily fixed at any height from 30 to 44 inches, with the top horizontal, vertical, or inclinel at any angle, while the instrument shelf and drawersalways remain level. In any of these positions the top can be allowed to rotate, or the whole firmly clamped. Total weight, 55 pounds,

> Drawing Models.


No.
683.

Price.
583. New American Drawing Models, a set of 27 pieces, consisting of mathematical solids, vases, \&c., with stand, complete in a substantial box, per set,

## Chesterman's Steel and Metallic Tape Measures.



## Chesterman's Metallic Tape Measures.

These tapes are made of linen thread interwoven with fine brass wire, not so liable tostreteh as the usual linen tape, and better ealculated to witlistand the effect of moisture. They are in substantial leather cases.


Chesterman's Metrillic Tapes furnished without boxes at the following prices: 50 fect, each, $\$ 2.00 ; 66$ feet, $\$ 2.50 ; 100$ feet, $\$ 3.50$.

## Chesterman's Steel Tape Measures.

Steel Tape Measures; all Steel, to wind up in a box, same as linen measures, the most aecurate, durable, and portable measures.


## Pocket Rules.


1100.No.Price.
1100. One Foot, Four Fold, Boxwood, eaeh, ..... $\$ 025$
1101. Do. do. do. Brass Edges, Bound, . ..... 75
1102. Do. do. Ivory, Brass Mounted, ..... 100
1103. Do. do. do. German Silver Mounted, . ..... 125
1104. Do. do. do. do. do. graduated in 8ths, 10 ths, 12 ths, 16 ths, and 100 ths of a foot on edges of unbound ..... 225
1105. One Foot, Four Fold, Ivory, graduated in 8ths, 10ths, 12ths, and 16ths, with German Silver Edges, Bound, ..... 300
1106. One Foot, Four Fold, Ivory, Caliper, gradnated in Sths, 10ths, 12ths, and 16 ths, ..... 300
1107. One Foot, Four Fold, Ivory, Caliper, graduated in 8ths, 10ths, 12ths, and 16ths, with German Silver Edges, Bound, ..... 400
1108. Two Feet, Four Fold, Boxwood, inside edges bevelled with Draft- ing Scales, . ..... 100
1109. Two Feet, Four Fold, Boxwood, . ..... $: 0$
1110. Do. do. do. Brass Bound with Drafting Seales ..... 1 C0
1111. Do. do. Ivory, German Silver Mounted, with 8ths, 10ths and 16ths inches, and $\frac{1}{4}, \frac{1}{8}, \frac{3}{4}$, and 1 inch Drafting Seales, ..... 600
1112. Two Feet, Four Fold, Ivory, same as No. 1111, German Silver, Bound, ..... 750
1113. Two Feet, Four Fold, Ivory, same as No. 1111, but extra broad and Bound in German Silver, ..... 900
1114. Two Feet, Six Fold, Boxwood, graduated Sths, 10ths, 100ths, and 16ths, ..... 125
1115. Two Feet, Six Fold, Ivory, graduated 8ths, 10ths and 16 ths inches, ..... 600
1116. Combination Rule, One Foot, Two Fold, Boxwood. This is themost convenient and useful pocket-rule ever made; it combinesin itself a Carpenter's Rule, Spirit Level, Square Plumb, Bevel,Indicator Brace, Seale, Draughting Seale of equal parts, TSquare, Protractor, Right-Angle Triangle, and with a straightedge can be used as a Parallel Ruler, all the parts of which, intheir separate applications, are perfectly reliable,300

An explanation and directions for use aceompanies each of the Combination Rules.

We desire to call attention to our TERRA COTTA PLAQUES, in the manufacture of which we have made a desirable improvement. The new departure, which has given our patrons so much satisfaction, is our putting on the ground color, which enables the artist to paint on them without any further preparation.
A Plaque made of pottery is the only one that has given general satisfaction. Unlike papier-mache and wood, both of which freguently crack and change their form on account of variations of temperature, the pottery Plaque is permanent in its make-up, and, not being affected by either damp or dryness, it is the only one that has not disappointed the many who have used them.
We are making them in five sizes, with prices as follows:


Paper Plaques.

| in., | . 35 | 12 in. | . 65 | 16 in., | 1.00 | 13 in., Oval, | . 75 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 82 ${ }^{\text {d }}$ " | . 40 | 14 " | . 80 | 11 " Oval, | . 55 | 15 " ${ }^{\text {c }}$ | . 95 |
| 10 | . 50 |  |  |  |  |  |  |

## Porcelain Plaques.

 Russell's Canvas Boards.SOMETIING NEW AND VERY DESIRABLE FOR SKETCHING IN OIL.

| $4 \times 6$, | $\cdot$ | .10 | $9 \times 13$, | $\cdot$ | .35 | $12 \times 16$, | $\cdot$ | .40 | $14 \times 24$, | $\cdot$ | .65 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $4 \times 8$, | $\cdot$ | .12 | $9 \times 15$, | $\cdot$ | .35 | $12 \times 18$, | $\cdot$ | .45 | $14 \times 26$, | $\cdot$ | .70 |
| $6 \times 8$, | $\cdot$ | .15 | $9 \times 18$, | $\cdot$ | .40 | $12 \times 20$, | $\cdot$ | .50 | $14 \times 28$, | $\cdot$ | .75 |
| $6 \times 10$, | $\cdot$ | .20 | $10 \times 12$, | $\cdot$ | .35 | $12 \times 22$, | $\cdot$ | .50 | $16 \times 20$, | $\cdot$ | .65 |
| $6 \times 12$, | $\cdot$ | .20 | $10 \times 14$, | $\cdot$ | .35 | $12 \times 24$, | $\cdot$ | .50 | $16 \times 22$, | $\cdot$ | .70 |
| $8 \times 10$, | $\cdot$ | .25 | $10 \times 16$, | $\cdot$ | .35 | $14 \times 16$, | $\cdot$ | .45 | $16 \times 24$, | $\cdot$ | .75 |
| $8 \times 12$, | $\cdot$ | .30 | $10 \times 18$, | $\cdot$ | .40 | $14 \times 18$, | $\cdot$ | .50 | $16 \times 26$, | $\cdot$ | .80 |
| $8 \times 14$, | $\cdot$ | .30 | $10 \times 20$, | $\cdot$ | .40 | $14 \times 20$, | $\cdot$ | .50 | $18 \times 22$, | $\cdot$ | .80 |
| $8 \times 16$, | $\cdot$ | .35 | $12 \times 14$, | $\cdot$ | .35 | $14 \times 22$, | $\cdot$ | .60 | $18 \times 24$, | $\cdot$ | 1.00 |
| $9 \times 11$, | $\cdot$ | .30 |  |  |  |  |  |  |  |  |  |

## Convex Glasses, used in Photographic Painting.



## Ivory Palette Knives.

| No. 1. Small Size, . | . | .22 | No. 3. Large Size, . | . |  |
| ---: | :--- | ---: | ---: | :--- | :--- |
| 2. Middle Size, | . | .45 | 4. | Extra Large Size, | . |

## Card Board Panels,

WITH BEVELLED EDGES GILT.
In Gray, Black, Azure, Pink and Pale Green, for Oil or Water Color Painting.


## Black Wood Panels,



## Wooden Plates,

 3-Ply.

## Miscellaneous, Oil Colors.



## Green's Prepared Tints for Pencilling.

These Tints are prepared on stout Drawing Paper for the modern style of Pencil Drawing in Black and White; the White being obtained by scraping the surface off the paper with a knife or eraser.

Imperial, $22 \times 30$. . . . . per sheet, . 35

## Impression Papers.

| Black, | $12 \times 18$ | inches. | . | . | . | . | . | . | . | per sheet, |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Blue, | $12 \times 18$ | ". | 08 |  |  |  |  |  |  |  |
| Red, | $12 \times 18$ | $"$ | . | . | . | . | . | . | . | . |
| Green, |  |  |  |  |  |  |  |  |  |  |
| $12 \times 18$ | " | . | . | . | . | . | . | . | . | $"$ |

## Atomizers.

Essex Improved, No. 5. A ..... $\$ 1.25$
1.25
Tin, (for throwing heavy spray), .....  30

## Geo. Rowney \& Co.'s Box of Moist Water Colors.



Box of Moist Water Colors, japanned tin, with thumb-hole, hinged lid and palette flap,-fitted according to the formula recommended by the Department of Science and Art, consisting of the following colors :-

| GAMBOGE. | LIGIIT RED. | LAKE. |
| :--- | :--- | :--- |
| YELLOW OCHRE. | IBURNT SIENNA. | VANDYKE BROWN. |
| VERMILION. | SEPIA. | PRESSIAN BLUE. |
|  | ULTRAMARINE. |  |

TIIREE CAMEL-HAIR PENCILS, - DUCIK, GOOSE, AND EKTRA
SMALL, SWAN, WITH STICKS.

## Green's Indelible Drawing Chalk,

## Manufactured only by Geo. Rowney \& Co.

This Chalk, the result of numerous experiments, has been prepared for the purpose of combining intense blackness in the deep shadows with the greatest delicacy in the half tints. It is similar in character to Lithographic Chalk, but is much finer, and more even in texture and color; it is invaluable as a material either for the most finished execution, or for sketching.

In Boxes of one dozen, price 45 per box.

## German Water Colors.

In polisifed slide-lid boxes, for Architects, Mechanical and Civil Engineers and Machinists.

| For | Architects, containing | 12 | colors, | . | . | . | . | . | . | . | $\$ 2$ | 00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $"$ | $"$ | $"$ | 18 | " | . | . | . | . | . | . | . | 3 | 00

## Leaves from Rowbotham's Water Color Sketch Book.

Extract from Art Journal.-"Art students of all classes and ages owe a large debt to Messrs. Rowney \& Co., the eminent printers of works in lithography and chromo-lithography. The publication before us will rank among the best of many. $\dagger$ We have here a most useful series of sketches in colors, principally of trees and foliage, with such accessories as cottages and carts. They are simple facts, not made into pictures, but so designed that the learner shall make pictures of them "out of his own liead." More suggestive "Art bits" it would be difficult to find; there exist none so simple and comprehensive, so far as they go, none more certain to lead the pupil or student right. If we are, therefore, to thank the good publishers, we are surely bound to thank the excellent artist; few men have been more useful to their generation. Messrs. Rowney have also issued several admirable sea and river sketches in sepia from the pencil of Mr. Syer."
$\dagger$ Leaves from T L. Rowbotham's Sketeh Book Part II. Printed and published by George Rowney \& Co.
A Series of Plates, fac-similes of the original Sketches in Water Colors, arranged in progressive order for the use of beginners.
No. Width. Height. Price
 ..... 20
 ..... 20
.20
$\begin{array}{lll}81 \frac{1}{2} & 614 \\ 73 \frac{1}{3}-\text { SALMON TRA }\end{array}$ ..... 20
"43/4-CORN RICKS ..... 20
$63 / 44_{4}^{3}-{ }^{2}$-THE MARSII ..... 20
634 " 43 - STONE BRIDGE ..... 20
(6 41⁄22-TRUNK OF TREE. .....  20
81.4 " $5 \frac{1}{2}-H 1 L L$ SIDE. ..... 20 ..... 30
.30
10 " 7 -BOAT, VEN'NOOR.
10 " 7 -BOAT, VEN'NOOR.
10 "63-FARM SIIEI, NEXR EPSOM
10 "63-FARM SIIEI, NEXR EPSOM ..... 30 ..... 30
$\begin{cases}63 / 4 & 43 / 4-C O T T A G E, \\ 6 & \text { CRANLEIGII }\end{cases}$ ..... 30
$\left\{6 \frac{6}{8}\right.$ " $41 / 2-C^{\prime}$ TTAGE, DIDCOTT ..... 30
93 " 77 - CO'TTAGE, HAGBOURNE
30
30
$93 / 4$ " $61 / 2-C O T T A G E, ~ B R A M B E R$ .....  30
16. $93 / 4$ * $77 / 8-A^{\prime} T$ LANCING, SUSSER ..... 30
9 " $6 \frac{1}{2}-$ FIR TREES ..... 30
984 7 3/4-OLD WILLOTV TIREE ..... 30
97/8 " 7 -HAZEL TREE .....  30
117/8 " $8 \frac{1}{8}$-FIR TREES, GREENWICII PARK. ..... 45
$13^{\frac{1}{4}}$ " 9 尔-FIR TREES, GREENWTCH PARK ..... 45
121/4 * 95/8-FIR TREES, GREENWICH PARK ..... 45
23. 131/2" 9 -FIR TREES, APPALDURCOMBE PAKK. ..... 45
$101 / 2 " 61 / 2-F A R M$ WAGON ..... 45
 ..... 30
1418 " 6 65 71 -COTTAG1, BROMLEY ..... 80
1414 " ..... 60
14눈 " $71 / 8-C O T T A G E S$, RINGWOOD. .....  60
29. 131/4 " $71 / 4-\mathrm{KO}$. ADSIDE COTTAGE .....  60
30. 141⁄2 " 71⁄2 - COTTAGE, SOPLEY ..... 75
Geo. Rowney \& Co.'s Studies in Two Crayons,
AFTER VARIOUS ARTISTS.

# Geo. Rowney \& Co.'s Studies in Two Crayons, 

AFTER SIR EDWIN LANDSEER.

Size 22 by 15. Price 45 c. each.

## IND ヨX



| Palettes for Oil Painting | . . 10 |
| :---: | :---: |
| Palettes for Water Color Painting | . . 12 |
| Panels, Wood and Card Board |  |
| Paper Fasteners | - . 29 |
| Paper, Harding's, for Water |  |
| Parallel Rules |  |
| Pastels, |  |
| Pastel Paper and Board |  |
| Pencils, Faber |  |
| Pencils, Tubular, Siberian |  |
| Pentagraph |  |
| Plaques, Terra Cotta |  |
| Plaques, Porcelain and Paper |  |
| Plates, Wood |  |
| Pocket Rules |  |
| Porte Crayons |  |

Portfolios, Paper and Cloth
$40,45,55,62$
Profile Pape $\qquad$
Protractors, Brass and German Silver . 63
Protractors, Boxwood.
68
Protractors, Ivory
67
Protractors, Paper and ilorn : . . 63
Protractors, Swies . . . . 64,65
Rubber
25
Reading Glasses . . . . 77
Rowbotham's sketches in Water Colors . 79
Scales, lvory
79
66
Scales, Paper . . . . . . 69
Scales, Wood . . . . . . 68
School of Art Boxes . . . . . 4
sehool Rules.
75
Serapers, Canvas . . . . . 11
Shells, Gold and Silver . . . . 2
siceatif
$\stackrel{2}{11}$
Silver Ink
5
sketeh Books . . . . . . 22
Sketeh Blocks, Chareoal . . . . . 22
sketching boards . . . . . 24
Sketchins Boxes . . . . . 6, 10
sketching foate . . . . . . 24
Sketching Tracks . . . . . . 29
Sketching Cimbrellas . . . . . 24
Studies in Two Crayons . . . . 79
soft Pastels . . . . . . . 23
Stecl l’ens . . . . . . . 25
Stumps Instruments . . . . $\quad . \quad 6$
Text Books, \&e. . . . . . . 38
Tape Measures, Metallic and Steel . . it
Tints, for Pencilling . . . . . 77
Trammel Points . . . . . . 70
Thumb Tacks . . . . . . 29
Tinsel, or Foil . . . . . . 34
Tinted Paper . . . . . . 27
Tinting Saucers . . . . . . 12
Tracing Cloth . . . . . . 26
Tracing Papers . . . . . 26,28
Transfer Paper • $\dot{\text { Pubber - 28, }}$
Triangles, Wood and Rubber • . . 71
Triangular Seales, Boxwood, . . . 6!
T'Squares . . . . . . . i2
Varnishes . . . : . . . 11
Water Buttles . . . . . . 11
Water Color Liquids and Mediums . . 5
Water Colors, Cakes . . . . . 2
Water Colors, Moist . . . . . 2
Water Colors, in Boxes
Water Colors, German, in Boxes $\quad: \quad$
78
Water Colors, German, in Boxes . . 78
Water Glasses . . . . . . 31
Wax Flower Cutters : $\quad . \quad . \quad .31$
Wax, in Sheets
Wax, Leaf, Moulde for . . . . 31
Wax Materials, Miscellaneous . . . 30
Whatman's Papers . . . . . 25
Wire, for Wax Flowers . . . . 30

## Fixation Direct.

## Instantaneous upon all Surfaces of Design, either of Water Color, Charcoal, Sepia, India Ink, Crayon, Chalk, etc., etc.

The Artist can, with charcoal, draw his design on canvas, fix it, and at once paint over it without the least difficulty. The Designer on wood and stone, or any fabric, can use it effectually.

The Fixatif can be renewed indefinitely on the same work with complete success, and permits retouching as often as required; and also permits (according to the experience of eminent Artists) the working over in body colors, producing an effect entirely new.

The Architect, Engineer and Draughtsman derive a benefit from the Fixatif; as a drawing in pencil can be more permanently fixed than if drawn in ink, and saves time and expense of inking over a drawing.

The Fixatif Rouget, with the necessary appendages, nicely put into a box, at $\$ 2.25$ each.

This preparation, the production of an eminent French chemist, and patented by the French Government, is heartily endorsed by the American Artists and Amateurs who have used it and represent it to be all that is clamed for it, viz., that it permanently fixes charcoal and other drawings, without discoloring or detriment. The process is simple, and the effect desirable and endurable.

Small bottle Fixatif, each . . . . . . . . $\$ .40$
Large " " 6 . . . . . . . . . . 70
Blowing Apparatus, separate, . . . . . . . . . 1.60
Liquid, special, . . . . . . . . . . . . 20
American Atomizer, . . . . . . . . . . . 1.50

## SPECIFICATION PAPER.

## CROSS-SECTION PAPER.

## CONTINUOUS OR ROLL PROFILE PAPER.

Plate A. - Horizontal Divisions, 4 to the inch; Vertical Divisions, 20 to the inch, and having every tenth horizontal division line, and every fiftieth vertical division line, heavier than the others. Price yer yard,
Plate B. - Horizontal Divisions, 4 to the inch; Vertical Divisions, 30 to the inch, and having every fourth horizontal division line, and every twenty-fifth vertical division line, heavier than the others. Price per yard,

Plate B corresponds to that in sheets known as Brown's Profile Piper.

## F. C. HASTINGS \& CO.

54 \& 56 C0RNHILL (near Oourt Street), BOST0N, IMPOIRTERA AND DEALERS IN

## ART'IS'IS' MATERTALS,

 SWISS, GERMAN, FRENCH AND ALTENADER'SMATHEMATICAL INSTRUMENTS, separately or in sets,


AND

## Drawing and Painting Materials,

For Architects, Designers, Enginecrs, Surveyors, Lithographers, Machinists, Photographers.

## MATERLALS FOR MAKING

WAX FLOWERS, OIL PAINTING, WATER-COLOR PAINTING PENCIL DRAWING, CRAYON DRAWING, ETC.


[^0]:    Boxes of 30 Pastels each, containing an assortment of either Gray, Blue, Brown, Green, Yellow, cte., per box

