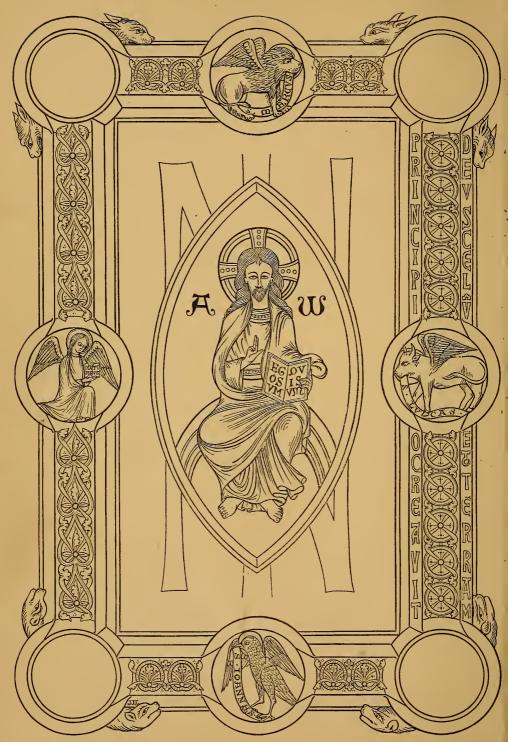


PLATE I. XII CENTURY.



Border, Figure, and Initial Drawing. After Addl. MS. 14,788, British Museum.





OMPANION

TO



annal of Illumination,

CONTAINING

BORDERS, CAPITALS, TEXTS, AND DETAIL FINISHINGS, &c.

DRAWN BY

J. J. LAING.



Ars probat artificem.

LONDON:

WINSOR & NEWTON, 38, RATHBONE PLACE,

Stlanufacturing Artists' Colourmen by Special Appointment to Per Majesty, and Their Royal Highnesses the Prince and Princess of Wales.

ND 3310 .B&2



Ender

OF

ILLUSTRATIONS.

Plate I.—xII century, from British Museum. Border, Figure, &c. drawing, (reduced less than half of original size.)

Plate I A.—Ditto, ditto. Border and Figure only.

Plate I B. – Ditto, ditto. Border alone. The first might be completed by scroll work intertwining with the IN, like capital of Part I. The ground within aureole to be gold; and the four corner medallions may have the names of the four great prophets, Isaiah, Jeremiah, Ezekiel and Daniel, written in plain raised gold letters on purple or blue grounds like words 'Vegeti,' Plate III, or 'Finis' at end.

Plate II.—Late XII and XIII centuries, from British Museum, France, &c. St. Dunstan, (reduced less than one-half of original size); letter A with Resurrection, and letter F, with St. Ambrose, &c. Border of St. Dunstan might be used for other subjects. The F is complete in sequel illustrations.

- Plate III.—XIII century. Title-page letter P and other capitals, &c., from "Vegetius" MS., British Museum.
- Plate IV.—xIII century. From Advocates' Library, Edinburgh. Parts of square border with medallions, and initial letter I, with miniature of Ruth and Boaz. The four medallions are suggestive for illumination, like Plate VI. Whole border may form a future separate illustration in 4to.
- Plate V.—xIII century. From Advocates' Library, Edin. Letter L, containing miniatures; also Letters I and C, &c. The L commences 'Liber Generationis,' of St. Matthew's Gospel, and forms a border as well as initial; complete also in sequel, and might commence many of the Psalms with the word 'Lord.' The C may be curtailed of lower slim border, or made shorter at top, like E, Plate IX. The scroll work on lower part is only the secondary decoration, in red and blue at side of text.
- Plate VI.—xiv century, from MS., Addl. 17,341, British Museum. Example of border letter L, with music. This will also form a future separate 4to. sheet. Meantime it may be used as an I, adding below bold spreading stems from across the bells, same as in Plate XVII. The slim border at right side (Plate VI.), may be added to the left hand upper corner of illustration, p. 71, and so would lengthen it considerably for 4to. size.
- Plate VII.—xiv century. Title-page border with ruling for text.
- Plate VII A .- Ditto, ditto, without ruling.

Plate VIII.—xIII century. Illustration to show connection with glass-painting, and suggestive design for borders, &c., therefrom. These are adapted for illumination separately on other sheets.

Plate IX.—xiv century. Ivy border and capital E, from MS. Addl. 23,145, British Museum; suggestive for some subjects from Albert Durer's series of small prints.

Plate X.—xiv century. Common ivy border page from same Missal as Plate VII.

Sequel Plates.

Plate XI.—Letters A and C, XIII century.

" XII.—Letter B, XIII ditto.

" XIII.—Letter D, xIV ditto.

,, XIV.—Letters E, F and G, XIII and XIV ditto.

" XV.—Letters H and K, xIV ditto.

" XVI.—Letters I and J, xII and XIII ditto.

" XVII.—Letter I, or borders, XIII and XIV ditto.

,, XVIII.—Letters I and L, forming borders also, xIII and XIV ditto.

" XIX.—Letters M, N, O, XIII ditto.

" XX.—Letters P and Q, XIII ditto.

,, XXI. -- Letters R, S and T, XII and XIII ditto.

,, XXII.—Letters U and V, XIII ditto.

,, XXIII.—Letters W, X, Y and Z, xIV ditto.

"XXIV.—Alphabet of small capitals, xiv ditto.

,, XXV.—Text alphabets, and minor capitals, &c. xII and XIII ditto.

,, XXVI.—Line Finishings, XII and XIII ditto.

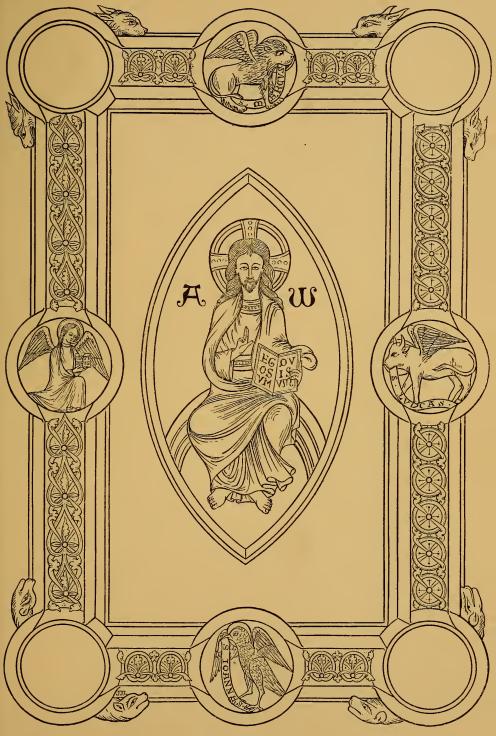
, XXVII.—Line Finishings, xIV and XV ditto.

Plate XXVIII.—Diapers and details.

Note.—Many of these capitals may be used in the same styles for others, by a slight change. C for instance by a bar across may be used as E; or have the turn inwards and so form G. D, by lengthening the long stroke, may be made into P; or curtail P, and it becomes D. The long L may be adapted for an I. O requires little to be added to be Q, and Q curtailed becomes O, &c.

The whole of the above illustrations forming different kinds of complete borders, side borderings, great initials, together with minor capitals for small subjects, such as Bible marks, &c., are published separately on Bristol boards in convenient forms ready for illuminating.

PLATE I A. XII CENTURY.



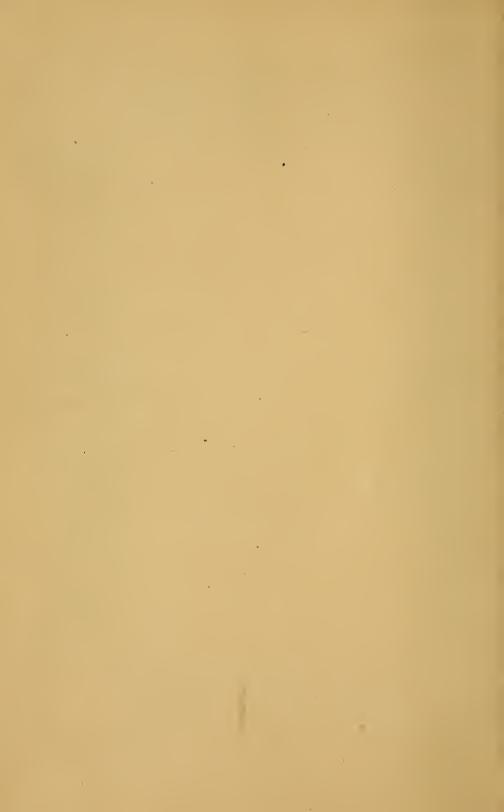
Border and Figure Drawing. After Addl. MS. 14,788, British Museum.

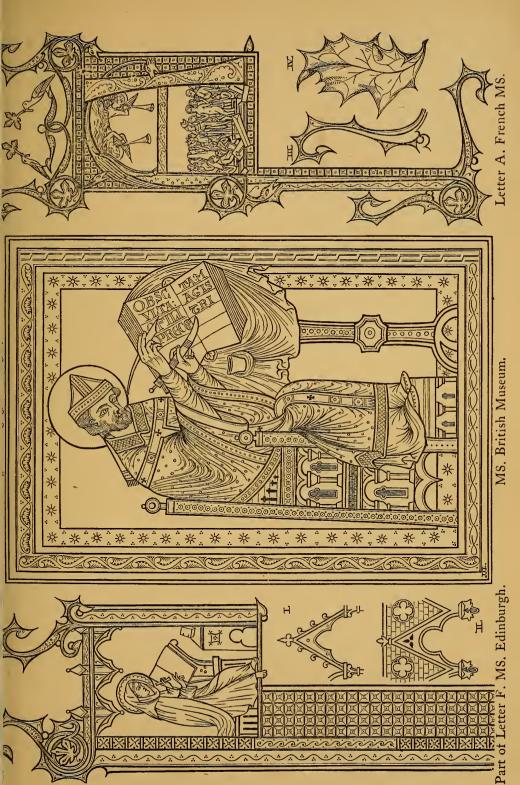


PLATE I B. XII CENTURY.

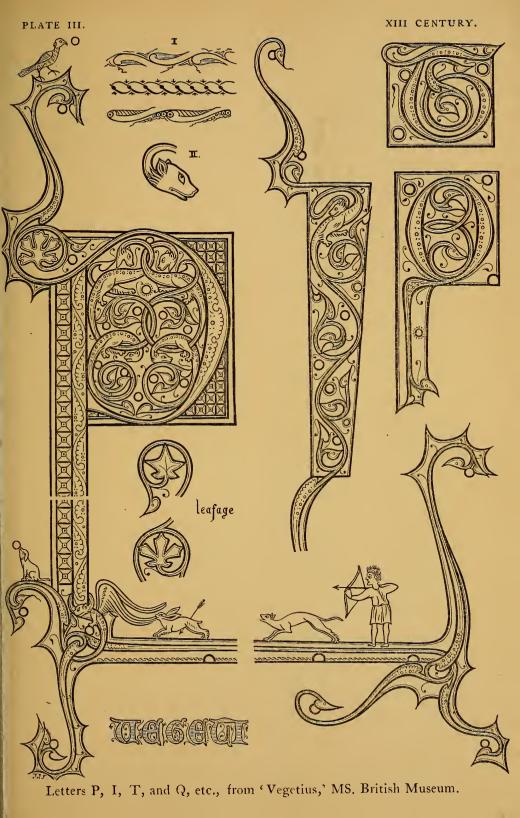


Border Drawing. After Addl. MS. 14,788, British Museum.

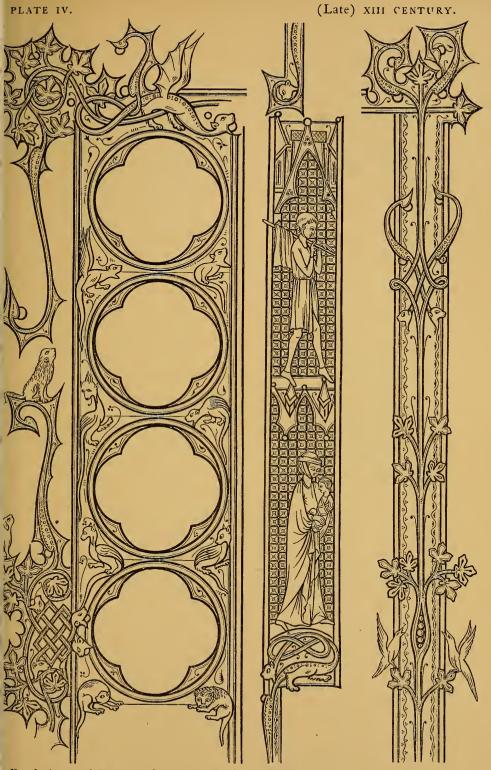












Bordering and Letter I from MS. Bible, Advocates' Library, Edinburgh.



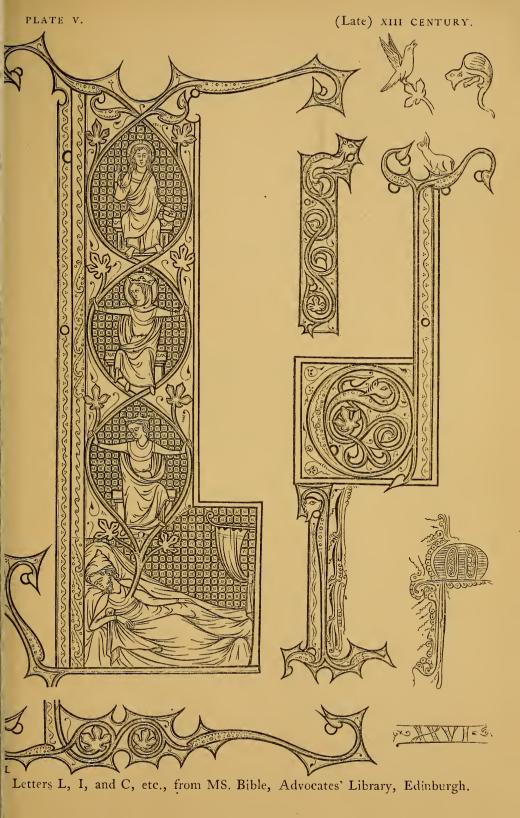




PLATE VI.

XIV CENTURY.

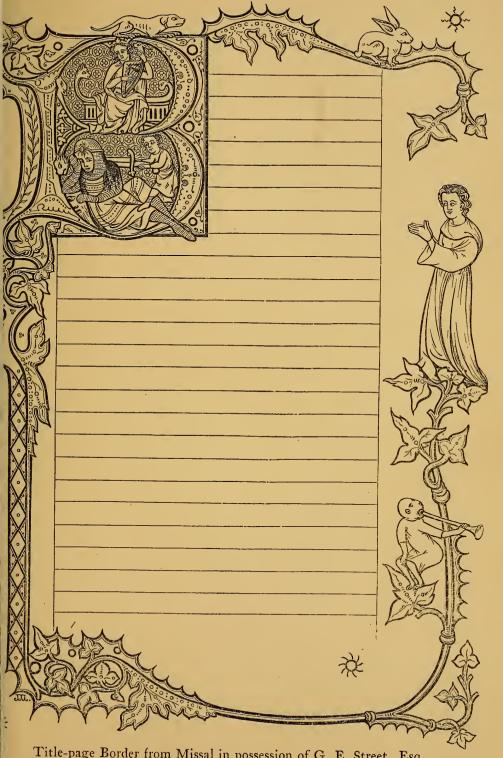


Parts of Borders from Addl. MS. 17,341, British Museum.





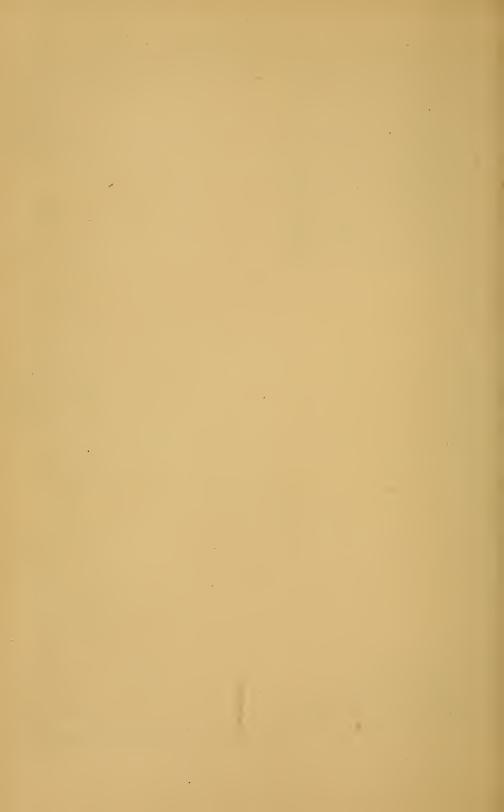
XIV CENTURY.

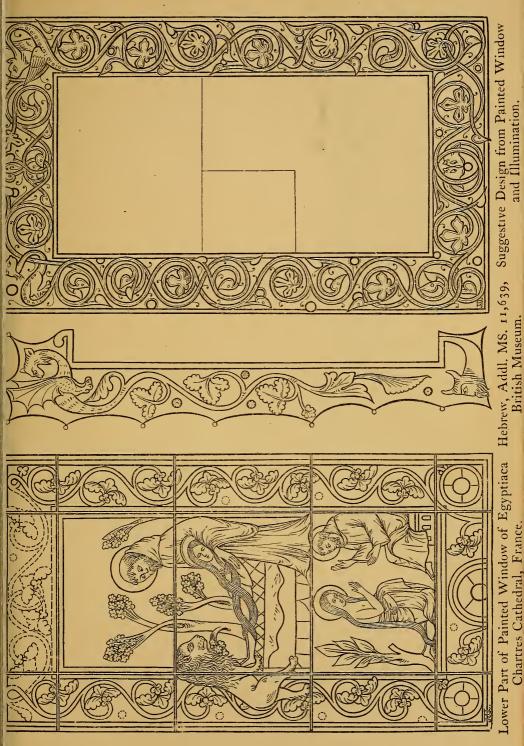


Title-page Border from Missal in possession of G. E. Street, Esq.

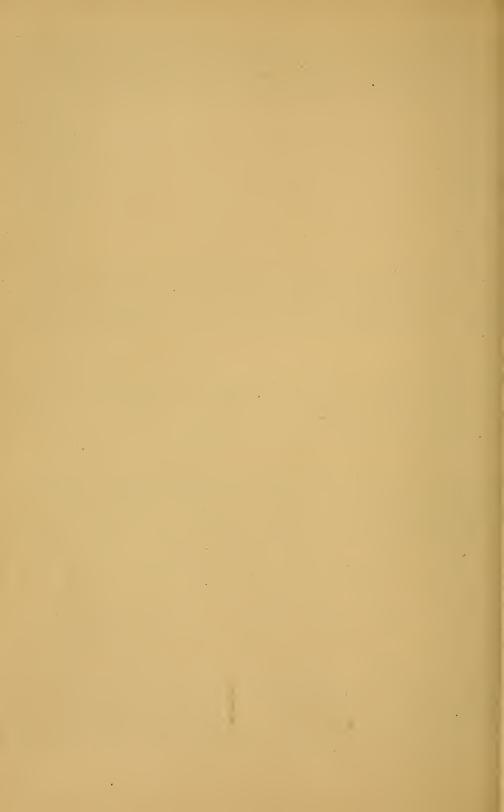






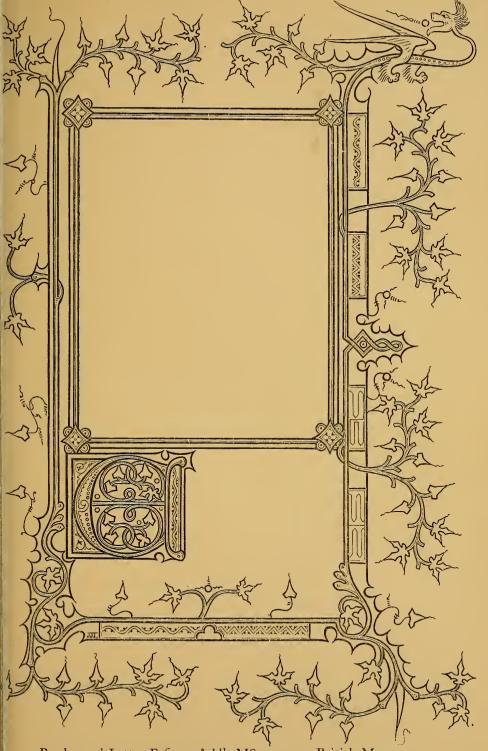


and Illumination. Hebrew, Addl. MS. 11,639, British Museum.



LATE IX.

XIV CENTURY.



Border and Letter E from Addl. MS. 23,145, British Museum.

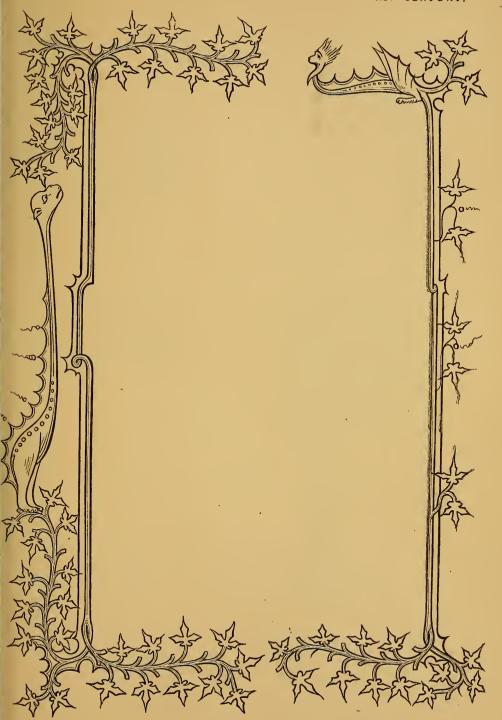


Ivy Border from MS. Addl 23,145, British Museum.



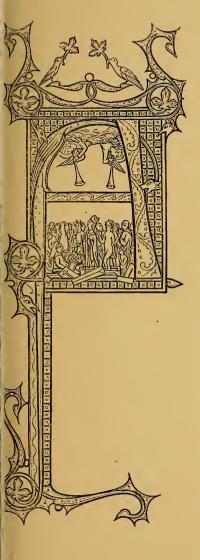
PLATE X.

XIV CENTURY.

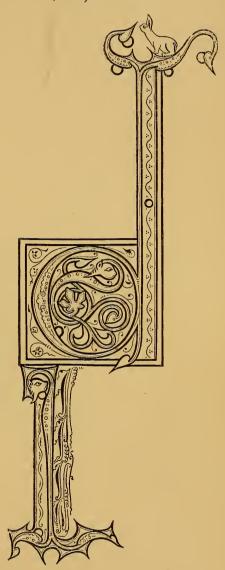


Common Ivy Border from Missal in possession of G. E. Street, Esq.



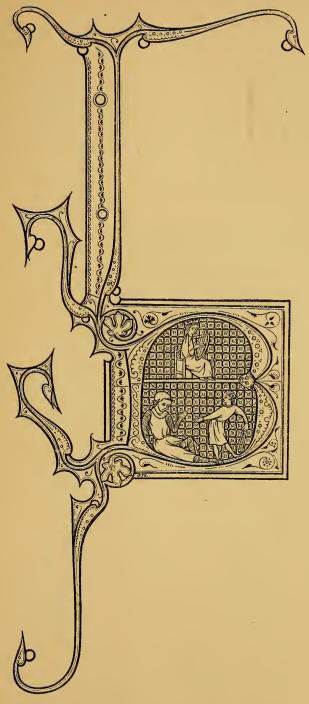


tter A, from Fragment of French Folio Choir-book.



Letter C, from MS. Advocates' Library, Edinburgh.





Letter B from MS. Bible, Advocates' Library, Edinburgh.

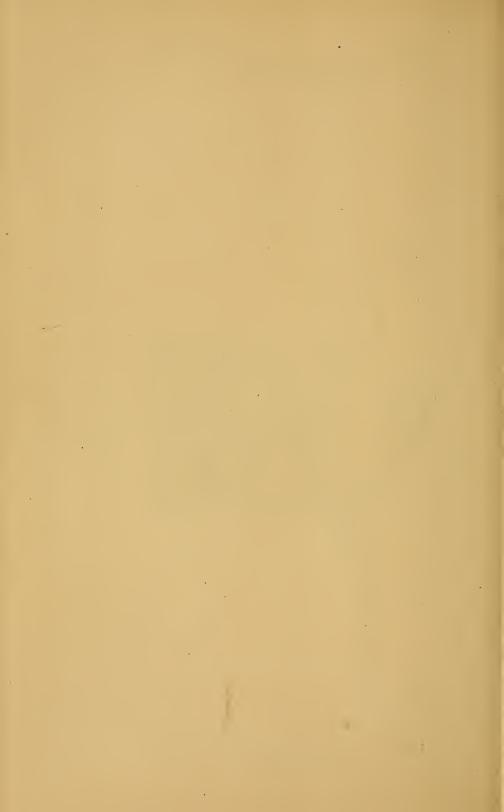
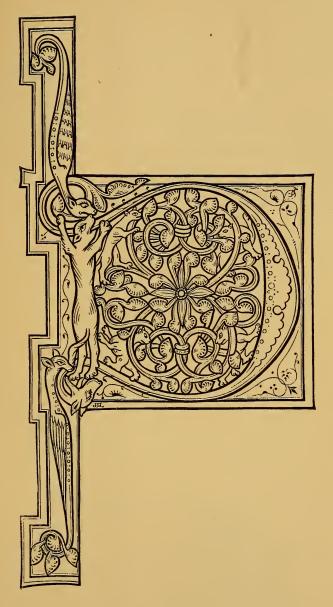
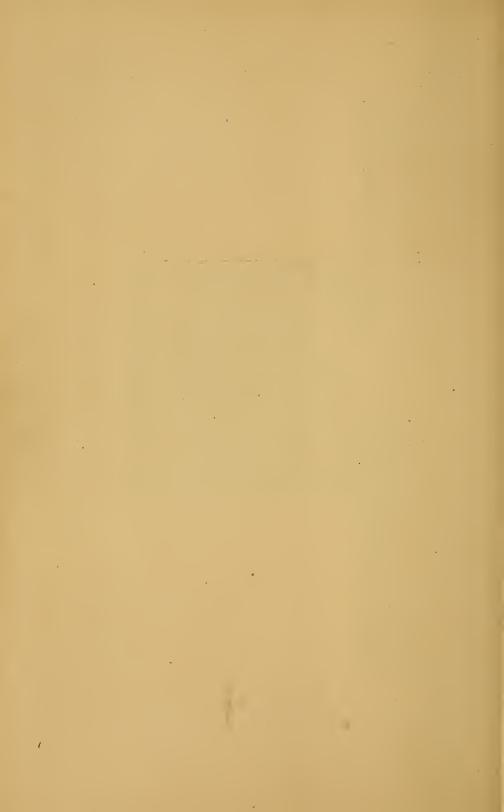


PLATE XIII. XIV CENTURY.

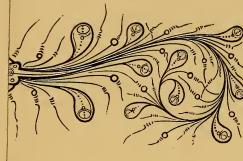


Letter D, from folio MS. in possession of G. E. Street, Esq.



・ てくつ ていいく ですな

From Addl. MS. 23,145, British Museum.



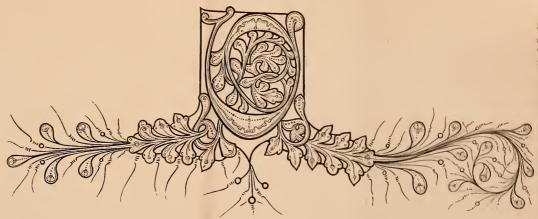
Letter G, (English Flower Type), MS. I-E. IX. British Museum.

Letter F from MS. Bible, Advocates' Library, Edinburgh.





From Addl. MS. 23,145, British Museum.

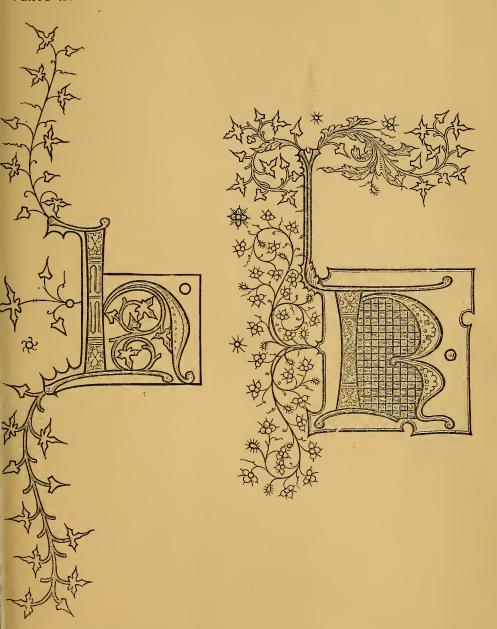


Letter F from MS. Bible, Advocates' Library, Edinburgh.

Letter G, (English Flower Type), MS. I-E. IX. British Museum.



PLATE XV. XIV CENTURY.



Letters H and K from Berri Bible, &c. British Museum.





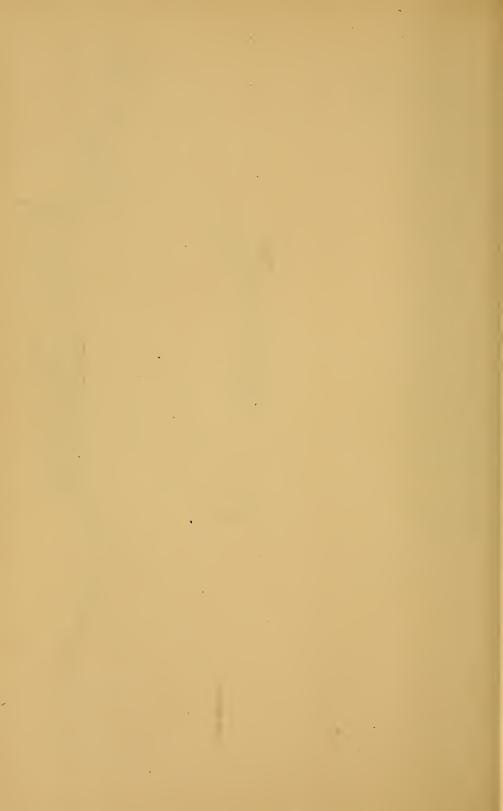
etter I from MS. Gospels,
British Museum,

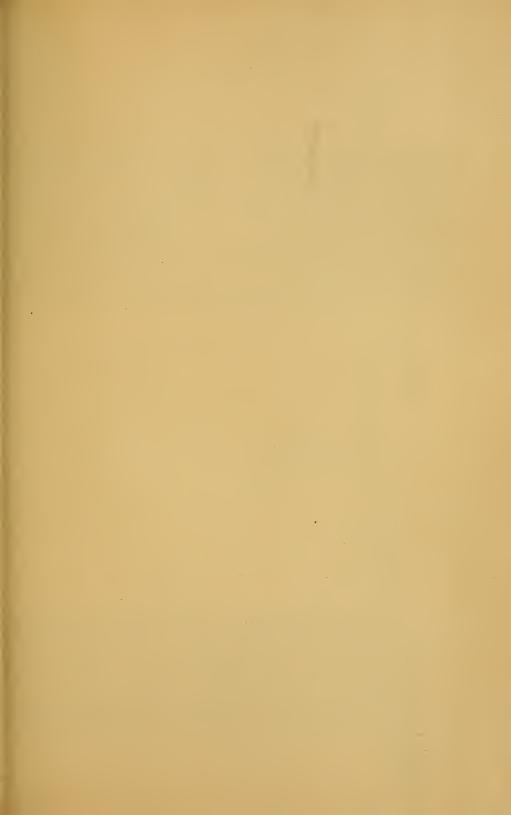


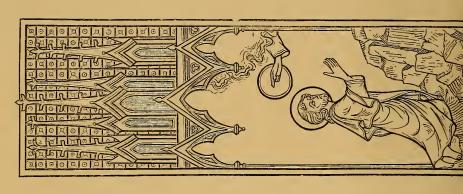
Letter I MS.
Bible,
Advocates'
Library,
Edinburgh.



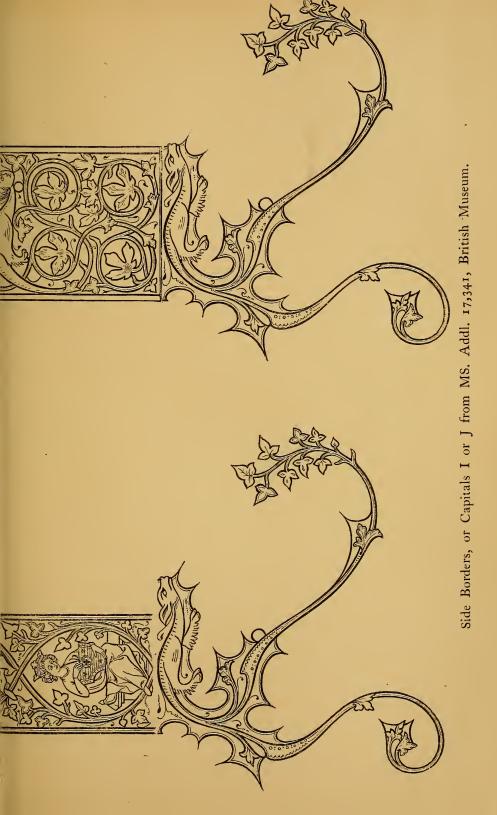
Letter J from 'Vegetius' MS. British Museum,



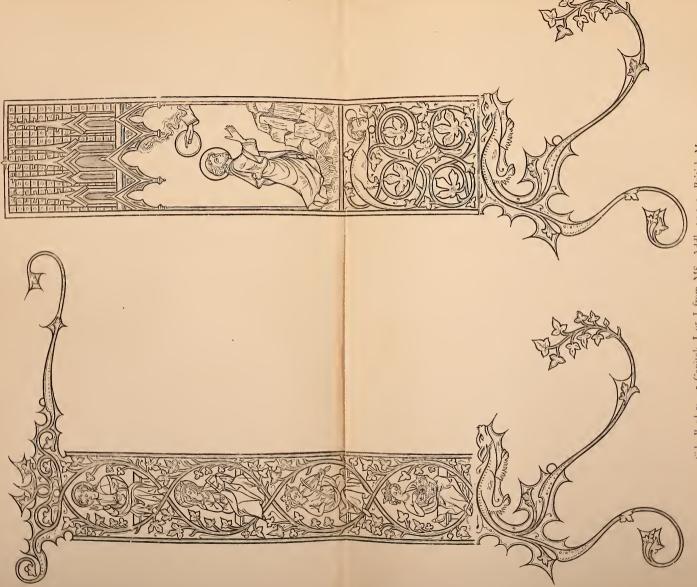










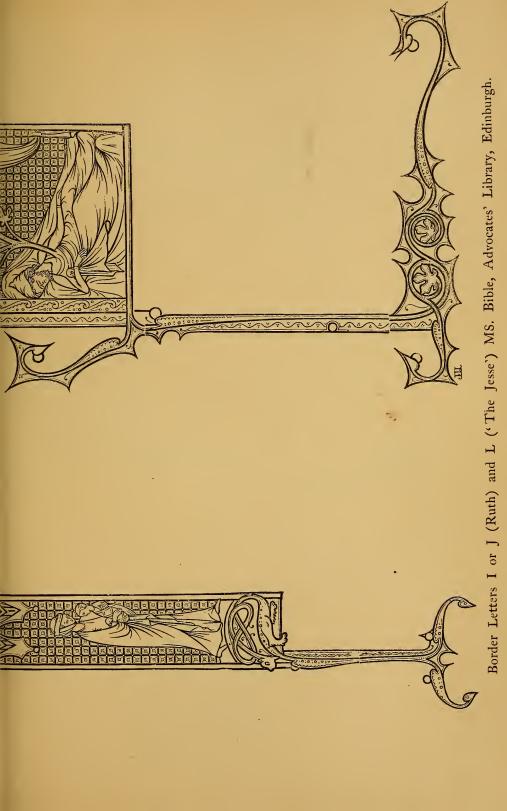


Side Borders, or Capitals I or J from MS. Addl. 17,341, British Museum.





PLATE XVIII.

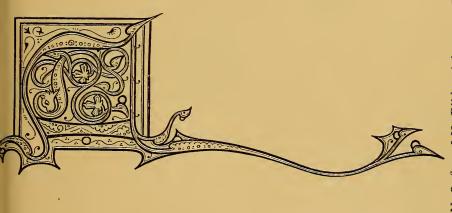




Border Letter, I or J (Ruth) and L ('The Jewe') MS. Bible, Advocates' Library, Edinburgh.





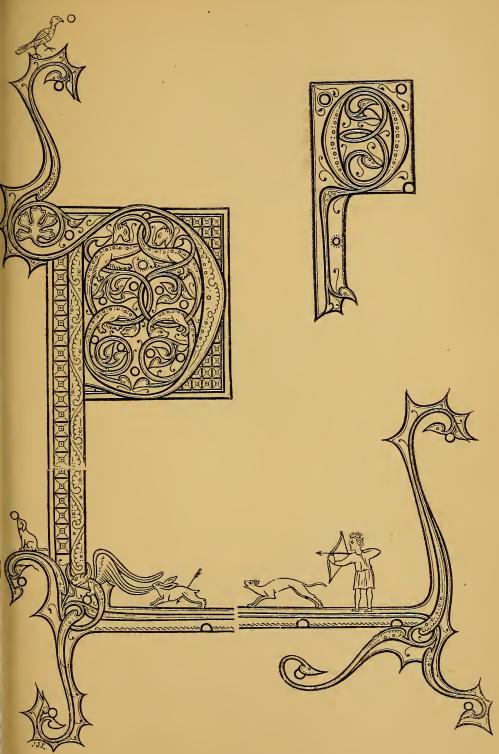




Letters M N O from MS. Bible, Advocates' Library, Edinburgh.

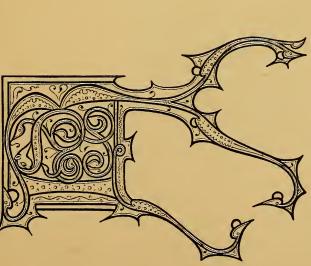


PLATE XX. XIII CENTURY.



Letters P and Q from 'Vegetius' MS. in British Museum.



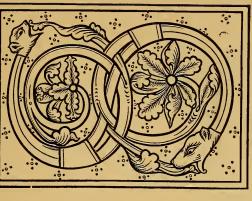


Letter R after MS. Bible, Advocates' Library, Edinburgh.



Letter T from 'Vegetius' MS. British Museum.

XII CENTURY.

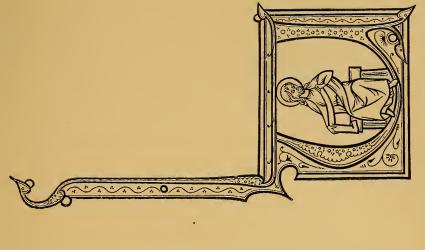


Letter S from MS. Addl. 14,790, British Museum.



PLATE XXII.

(Late) XII CENTURY.



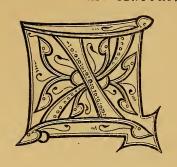
Letter V from MS. Bible, Advocates' Library, Edinburgh.

Letter U from 'Vegetius' MS. British Museum.



PLATE XXIII.









Letters W, X, Y, Z. British Museum, &c.

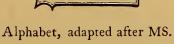


PLATE XXIV.







































Advocates' Library, Edinburgh.

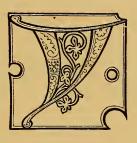


Tabcdefghijklmnopgrstuvwxyz;:. abcdefghijklmnopgrstuvwxyz.-

commandment 1. W.V.

XIII AND XIV CENTURIES.







XII CENTURY.

XIV CENTURY.

XIII CENTURY.

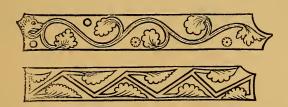




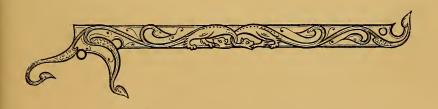














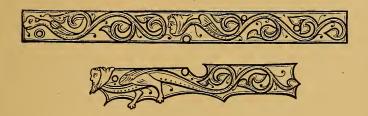


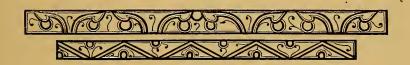
Line Finishings.







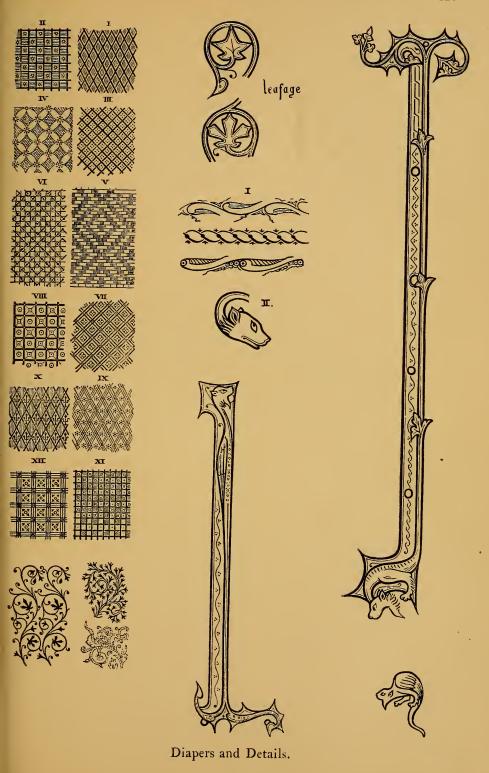


















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Previous to the establishment of the House of Winsor and Newton (in 1832), the evil repute of want of permanence attached to the Water Colours in ordinary use; and the most beautiful productions of Water Colour Art were inevitably fugitive through the instability of the materials employed. Complaints on this head were borne out by facts almost incredible to artists of the present day, whose predecessors used Spanish Liquorice, Dutch and Rose Pinks, Red Lead, Orpiment, Verditer, Green Bice, and even washes of tobacco-juice.

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Of WINSOR & NEWTON'S WATER COLOURS, therefore, it may be stated, that sound chemical knowledge and complete laboratory plant and apparatus,—powerful and specially adapted machinery,—and the matured experience of many years, ensure purity of Pigment, exquisite fineness, and a most perfect form of preparation for the Artist's palette.

FINELY PREPARED WATER COLOURS

IN DRY

CAKES AND HALF CAKES.





CAKE.

HALF CAKE.

CAKES, 1s. each.—HALF CAKES, 6d. each.

Antwerp Blue Bistre Blue Black British Ink Bronze Brown Ochre Brown Pink Burnt Sienna Burnt Umber Chinese White Chrome Yellow -Cologne Earth Deep Chrome Dragon's Blood Emerald Green Flake White Gamboge Hooker's Green, No. 1. Hooker's Green, No. 2. Indian Red Indigo Italian Pink

Ivory Black King's Yellow Lamp Black Light Red Naples Yellow Neutral Tint New Blue Olive Green Orange Chrome Payne's Grey Prussian Blue Prussian Green Raw Sienna Raw Umber Roman Ochre Sap Green Terre Verte Vandyke Brown Venetian Red Vermilion Yellow Lake Yellow Ochre

CAKES, 1s. 6d. each.—HALF CAKES, 9d. each.

Black Lead Brown Madder Cerulean Blue Constant White Crimson Lake Indian Yellow Mars Yellow Neutral Orange

Purple Lake Roman Sepia Rubens' Madder Scarlet Lake Scarlet Vermilion Sepia Warm Sepia

CAKES, 2s. each.—HALF CAKES, 1s. each.

Cobalt Blue Orange Vermilion Violet Carmine

CAKES, 3s. each.—HALF CAKES, 1s. 6d. each.

Aureolin
Burnt Carmine
Cadmium Yellow, Pale
Cadmium Yellow
Cadmium Orange
Carmine
French Blue
(or French Ultramarine)
Gallstone

Green Oxide Chromium Indian Purple Intense Blue Lemon Yellow Pink Madder Pure Scarlet Rose Madder (or Madder Lake) Viridian

CAKES, 5s. each.—HALF CAKES, 2s. 6d. each.

Field's Orange Vermilion Madder Carmine Mars Orange

Purple Madder Smalt Ultramarine Ash

CAKES, 21s. each.—HALF CAKES, 10s. 6d. each.

QUARTER CAKES, 5s. 6d. each.

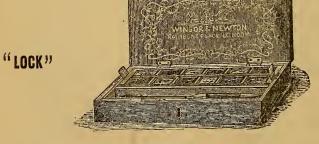
Genuine Ultramarine.

FRENCH POLISHED MAHOGANY

WHOLE CAKE

BOXES OF WATER COLOURS.

| | | | | | | | | | | _ |
|------------------|-----------|----------------|---|------------------------|-----|---|---|-------|---------------------|-------------------|
| 10 T 1000,0000 A | "SLIDE" | | CONTROL ONEW | न्द्र <u>त्त्र्</u> ।। | | | | BOXI | ES | |
| 12 18 | | ditto ditto | vith brushes ditto ditto ditto | | | • | • | . 0 | 0 6 0 12 0 18 | d. 0 0 0 |
| | "LID" | | | | | | | В | X. | |
| 6 | Cake "Lid | " Box, w | ith brushes, | &c. | • , | • | • | . . | e s. 0 10 | d. 6 |
| | | | VIX.50 | | | | | | | |



BOXES.

| | | | | | | ₺ | 8. | a. | |
|----|--------|------------|---------------|---|---|---------|----------------|----|--|
| 12 | Cake " | Lock" Box. | with fittings | | | 0 | $\frac{s}{15}$ | 0 | |
| | | | | | | 1 | 1 | O | |
| 18 | Ditto | ditto | ditto | • | • | 1 1 | | V | |



BOXES

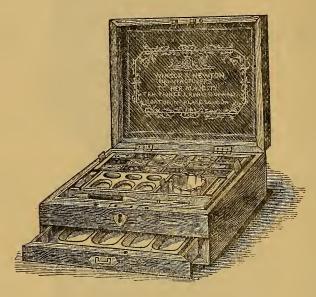
| | | | | | £ | S. | d. |
|----|------------|-------------|-----------|----------|---------|----------|----|
| 12 | Cake "Lock | and Drawer" | Box, with | fittings | 0 | s. 18 | 0 |
| | | ditto | ditto | | 1 | 5 | 0 |
| 10 | 171110 | uitto | artito | | 1 ~ | _ | - |



BOXES.

| | | | | | £ | S. | d. |
|--------|------------------|-----------------|--|--|---|--------------------|----|
| 12 Cak | e "Complete" Box | , with fittings | | | 1 | 1 | 0 |
| | o ditto | ditto. | | | 1 | s. 1 11 2 | 6 |
| 24 Dit | o ditto | ditto. | | | 2 | 2 | 0 |

"CADDY LID" BOXES.



| | | | | | | £ | 3. | d. |
|-----------|-----------------|-----------|----------|--|-----|---|----------|----|
| 12 Cake " | Caddy Lid" Box, | with full | fittings | | | 1 | s. 11 | 6 |
| 18 Ditto | | ditto | | | - 1 | | | |
| 24 Ditto | ditto | ditto | | | | 3 | 3 | 0 |

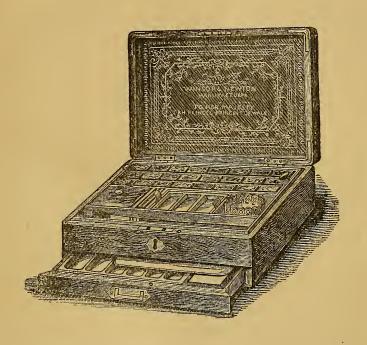
"CABINET LID" BOXES.

| | | | | | | £ | 3. | d. |
|-----------|-------------------|-------|----------|----------|--|---|----------|----|
| 12 Cake " | Cabinet Lid "Box, | with | varied f | fittings | | 2 | s. 12 | 6 |
| 18 Ditto | ditto | ditto | | | | 3 | 3 | 0 |
| 24 Ditto | ditto | ditte |) | | | | | |

ARCHITECT'S AND SURVEYOR'S BOX.

| | | | | | | | | | | £ | 5. | d. |
|---------------------|------|------|---------|-------|-------|-----|-------|-----|-----|---|----|----|
| Containing complete | 16 | Cake | Colours | . Ind | ian T | nk. | Brush | es. | and | | | |
| | CIT: | | | , | | , | | , | | E | 5 | 0 |
| complete | пен | ngs | • • | • | • | • | • | • | • | อ | อ | U |

"HANDSOME" BOXES.



| 12 C | ake "Handsome" Box, with first class fittings | • | £ 3 | s. 13 | <i>d</i> . 6 |
|------|---|-------|-----|----------|--------------|
| 18 D | ritto ditto ditto . | | 4 | 14 | 6 |
| 24 D | ritto ditto ditto | | 6 | 6 | 0 |
| 36 D | litto ditto ditto | | 9 | 9 | 0 |
| 12 C | ake "Extra Handsome" Box, with choice fitting | ngs . | 4 | 14 | 6 |
| 18 D | ritto ditto ditto | | 5 | 15 | 6 |
| 24 D | ritto ditto ditto | • | 8 | 8 | 0 |
| 36 D | itto ditto ditto | • | 12 | 12 | 0 |
| 50 D | itto ditto ditto | | 21 | 0 | 0 |

FRENCH POLISHED MAHOGANY

HALF CAKE

BOXES OF WATER COLOURS.



"LID" BOX.

| | | | | 00000 | | ~~~~~~ | ^_ | | | | | |
|----------|----------------|---------|----------------|--------|----------------|-----------------|-------|------|--------|---|-------------------------|------------------------|
| 12 18 | Ditto Ditto | Cake ' | ditto ditto | | ditto ditto | | es. | | · · | | s. 4 6 9 12 | d. 0 6 6 6 |
| 6 | HALF | CAKE ' | LID" | Box, v | with b | rushes | • | | | | s. 5 | <i>d</i> . 0 |
| 12 18 | HALF Ditto | Cake ' | Lock ditto | "Box, | with ditto | ${ m fittings}$ | | • | | : | s. 9 12 | d. 0 0 |
| | | Cake, " | | | | | | | | | s. 12 15 | d. 0 0 |
| 12 18 | HALF Ditto | CAKE " | Compi ditto | LETE'' | Box, ditto | with fit | ting. | gs . | | • | s. 14 18 | d. 0 0 |
| | | CAKE " | | | | | | | s . | | s. 20 25 | d. 0 0 |

N.B.—Whole Cake Water Colour Boxes, manufactured of Spanish Mahogany, Rosewood, Ebony, Walnut, and other choice Woods, in the first style of workmanship, and variously fitted with every requisite for Miniature, Figure, or Landscape Painting, Engineering &c., from £30 to £100. Also Brass Bound Boxes for India, &c.

MOIST WATER COLOURS

IN PORCELAIN PANS.

Winsor and Newton's Moist Water Colours are prepared after peculiar processes, and by a system of treatment known only to the Makers. Their characteristic qualities of easy solubility and prompt readiness for use are retained, unimpaired, for an unlimited period of time; so that a box of them, which may have been laid aside for two or three years, when required for use will be found no less serviceable than when first purchased. Climate also fails to affect these colours, which are found to be, and to remain, no less "Moist" in Tropical countries than in England; accordingly, they are confidently recommended to persons who are going to India, and to all residents in the East. While having this valuable quality of solubility in their solid form, they possess another and all important one, in drying perfectly firm on the paper when in use. Their tints, too, are pure and luminous, and their washes clear and even.

In Sketching from Nature, and, when representing transient and evanescent effects, the superiority of the Moist Colours is at once felt and appreciated. Ever ready for instant application, they enable the desired tint to be produced at once—a result unattainable by the old tedious method of rubbing dry cakes, which not unfrequently permits the effect, and with it the thought of the artist to vanish, before the material can be obtained. It was this quality which, on their first introduction, secured for Winsor and Newton's Moist Colours the eminent popularity that they still enjoy with both professional and amateur artists.

The Moist Colours are placed in pans (in their size resembling the ordinary dry-cakes) of thin porcelain, and they are afterwards enclosed in tin-foil for greater security. When required for use, the foil is removed. A surface of colour is then presented to the artist, which is obtainable in any quantity, simply by the application of a wet brush.

MOIST WATER COLOURS,

IN

WHOLE AND HALF CAKE PORCELAIN PANS.



WHOLE CAKE PAN.



HALF CAKE PAN.

WHOLE PANS, 1s. each.—HALF PANS, 6d. each.

Antwerp Blue Bistre Blue Black Brown Ochre Brown Pink Burnt Sienna Burnt Umber Chinese White Chrome Yellow Cologne Earth Deep Chrome Emerald Green Gamboge Hooker's Green, No. 1. Hooker's Green, No. 2. Indian Red Indigo Italian Pink Ivory Black Lamp Black

Light Red Naples Yellow Neutral Tint New Blue Olive Green Orange Chrome Payne's Grey Prussian Blue Prussian Green Raw Sienna Raw Umber Roman Ochre Sap Green Terre Verte Vandyke Brown Venetian Red Vermilion Yellow Lake Yellow Ochre

WHOLE PANS, 1s. 6d. each. HALF PANS, 9d. each.

Brown Madder Crimson Lake Indian Yellow Leitch's Blue (or Cyanine Blue) Mars Yellow Neutral Orange Purple Lake Roman Sepia Rubens' Madder Scarlet Lake Scarlet Vermilion Sepia Warm Sepia

WHOLE PANS, 2s. each.—HALF PANS, 1s. each.

Cobalt Blue Orange Vermilion Violet Carmine

WHOLE PANS, 3s. each.—HALF PANS, 1s. 6d. each.

Aureolin
Burnt Carmine
Cadmium Yellow, Pale
Cadmium Yellow
Cadmium Orange
Carmine
French Blue
(or French Ultramarine)
Gallstone

Green Oxide Chromium
Indian Purple
Intense Blue
Lemon Yellow
Pink Madder
Pure Scarlet
Rose Madder
(or Madder Lake)
Viridian

WHOLE PANS, 5s. each.—HALF PANS, 2s. 6d. each.

Mars Orange Purple Madder Smalt Ultramarine Ash

PATENT-FLEXIBLE-DIVISION

JAPANNED TIN BOXES OF

MOIST WATER COLOURS.

(See illustration on opposite page.)

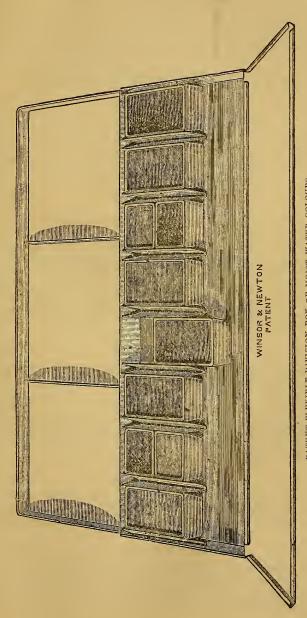
It has long been felt as a considerable inconvenience, that in ordinary Boxes of Moist Colours the pans cannot be removed (without breakage or damage), in consequence of their having to be fastened to the bottom of the box to prevent their falling out. Virtually it is impossible for the purchaser to alter the arrangement of the colours, and generally nothing but the breakage of the empty pan, (and sometimes the division of the box as well,) will enable him to replace a spent colour.

Winson & Newton's Patent-Flexible-Division Box obviates these annoyances, and permits of colours being inserted and taken out, or re-arranged at pleasure.

N.B.—Winsor & Newton's Japanned Tin Boxes for Moist Water Colours are light and strong, with flaps of a dead white colour, serving as palettes. The Selections of Colours placed in them have been made with much care, and after due study of the various lists of the first Water Colour Artists.

N.B.—In all cases of Boxes of Moist Water Colours the prices quoted are for the Box and the Moist Colours contained therein only; no general fittings being included.

WINSOR & NEWTON'S PATENT-FLEXIBLE-DIVISION MOIST COLOUR BOX.



PATENT-FLEXIBLE-DIVISION BOX OF MOIST WATER COLOURS.

(For Prices see pages 16 and 17.)

PATENT-FLEXIBLE-DIVISION

JAPANNED TIN BOXES OF

MOIST WATER COLOURS.

(See illustration on previous page.)

(Empty, 3s. 6d.)

2 Cake Box. Fitted, 5s. 6d.

Chinese White, and Sepia.

(Empty, 4s.)

3 Cake Box. Fitted, 6s. 6d.

Chinese White, New Blue, and Sepia.

(Empty, 4s. 6d.) 4 Cake Box. Fitted, 8s. 6d. Raw Sienna, Light Red, Cobalt, and Vandyke Brown.

(Empty, 5s.) 6 Cake Box. Fitted, 10s. 6d. Gamboge, Yellow Ochre, Crimson Lake, Light Red, Prussian Blue, and Vandyke Brown

(Empty, 6s.)

8 Cake Box. Fitted, 14s.

Gamboge, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, and Vandyke Brown.

(Empty, 6s. 9d.)

10 Cake Box. Fitted, 18s. Gamboge, Aureolin (\frac{1}{2}), CadmiumYellow (\frac{1}{2}), Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, Brown Pink, and Vandyke Brown.

(Empty, 7s. 6d.)

12 Cake Box. Fitted, £1 1s.

Gamboge, Aureolin (\frac{1}{2}), Cadmium Yellow (\frac{1}{2}), Yellow Ochre, Burnt

Gamboge, Aureolin $(\frac{1}{2})$, Cadmium Yellow $(\frac{1}{2})$, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Vermilion $(\frac{1}{2})$, Indian Red $(\frac{1}{2})$, Cobalt, Indigo, Brown Pink, Vandyke Brown, and Neutral Tint.

(Empty, 8s. 3d.)

14 Cake Box. Fitted, £1 5s.

Gamboge, Aureolin (½), Cadmium Yellow (½), Yellow Ochre, Burnt
Sienna, Crimson Lake, Light Red, Vermilion (½), Indian Red (½),
Brown Madder, Cobalt, Indigo, Brown Pink, Vandyke Brown,
Neutral Tint, and Sepia.

(Empty, 9s.)

16 Cake Box.

Fitted, £1 11s. 6d.

Gamboge, Aureolin $(\frac{1}{2})$, Pale Cadmium Yellow $(\frac{1}{2})$, Yellow Ochre, Cadmium Yellow $(\frac{1}{2})$, Cadmium Orange $(\frac{1}{2})$, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion $(\frac{1}{2})$, Indian Red $(\frac{1}{2})$, Brown Madder, Cobalt, Indigo, Emerald Green $(\frac{1}{2})$, Viridian $(\frac{1}{2})$, Brown Pink, Vandyke Brown, and Neutral Tint.

(Empty, 10s. 6d.)

18 Cake Box.

Fitted, £1 15s.

Gamboge, Aureolin (½) Pale Cadmium Yellow (½), Yellow Ochre, Cadmium Yellow (½), Cadmium Orange (½), Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion (½), Indian Red (½), Brown Madder, Purple Lake, Cobalt, Indigo, Emerald Green (½), Viridian (½), Brown Pink, Vandyke Brown, Neutral Tint, and Sepia.

(Empty, 12s.)

20 Cake Box.

Fitted, £2 2s.

Gamboge, Aureolin, Raw Sienna (½), Pale Cadmium Yellow (½), Yellow Ochre, Cadmium Yellow (½), Cadmium Orange (½), Burnt Sienna, Rose Madder, Crimson Lake, Light-Red, Vermilion (½), Indian Red (½), Brown Madder, Purple Lake, Cobalt, French Blue, Indigo, Emerald Green (½), Viridian (½), Brown Pink, Vandyke Brown, Neutral Tint, and Sepia.

(Empty, 15s.)

24 Cake Box.

Fitted, £2 12s. 6d.

Gamboge, Aureolin, Lemon Yellow (½), Raw Sienna (½), Yellow Ochre, Pale Cadmium Yellow (½), Cadmium Orange (½), Cadmium Yellow, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion (½), Indian Red (½), Brown Madder, Purple Lake, Cobalt, French Blue, Prussian Blue, Indigo, Viridian (½), Emerald Green (½), Terre Verte (½), Oxide of Chromium (½), Olive Green, Brown Pink, Vandyke Brown, Neutral Tint, and Sepia.

(Empty, 18s.)

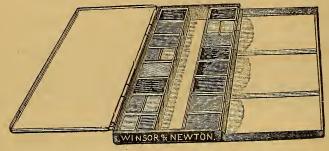
30 Cake Box.

Fitted, £4 4s.

Gamboge, Pale Cadmium Yellow (½), Lemon Yellow (½), Aureolin, Raw Sienna, Yellow Ochre, Cadmium Yellow, Cadmium Orange, Mars Orange, Burnt Sienna, Rose Madder, Carmine, Crimson Lake, Light Red, Orange Vermilion, Vermilion (½), Indian Red (½), Brown Madder, Purple Madder, Burnt Carmine, Violet Carmine, Smalt (½), Intense Blue (½), Emerald Green (½), Viridian (½), Ultramarine Ash, Cobalt, French Blue, Prussian Blue, Oxide of Chromium (½), Terre Verte (½), Brown Pink, Vandyke Brown, Neutral Tint, and Sepia.

WINSOR AND NEWTON'S

JAPANNED TIN BOXES OF MOIST WATER COLOURS.



JAPANNED TIN BOX OF MOIST WATER COLOURS

The Lists of Colours are the same as placed in the Patent-Flexible-Division Boxes of Moist Water Colours, (Pages 16, and 17).

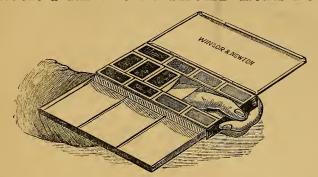
WHOLE CAKE.

| | 1 | | | | | | | ted w | | | | 1 | | | | | Fitted | | |
|-----|------|----|------|---|---|---|----|-------|-----|-----|------|----|------|---|---|---|--------|-----|----|
| Emp | oty. | | | | | | C | olour | 'S. | Em. | pty. | | | | | | Colo | urs | 3. |
| s. | ď. | | | | | | £ | s. | d. | s. | d. | | | | | | £ s | | d. |
| 3 | 0 | 2 | Cake | | | | 0 | 5 | 6 | 6 | 9 | 14 | Cake | | | | 1 | ŏ | 0 |
| 3 | 3 | 3 | ,, | | | • | 0 | 6 | 6 | 7 | 6 | 16 | ,, | | | • | 1 1 | L | 6 |
| 3 | 6 | 4 | ,, | | | | 0 | 8 | 6 | 8 | 3 | 18 | ,, | | • | | 1 1: | 5 | 0 |
| 4 | 0 | 6 | ,, | | | | 0 | 10 | 6 | 9 | 0 | 20 | ,, | | | | 2 2 | 2 | 0 |
| 4 | 6 | 8 | ,, | | | | 0 | 14 | 0 | 9 | 9 | 22 | ,, | | | | 2 | 5 | 0 |
| 5 | 3 | 10 | ,, | | | | 0 | 18 | 0 | 10 | 6 | 24 | ,, | | | | 2 12 | 2 | 6 |
| 6 | 0 | 12 | " | • | • | • | ,1 | 1 | 0 | 12 | 6 | 30 | " | • | • | • | 4 4 | 1 | 0 |

HALF CAKE.

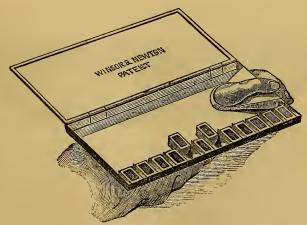
| Em | pty. | | | | C | ted w | | Em | pty. | | | | C | ted w | |
|----|------|----|-----------|---|---|-------|----|----|------|----|-----------|---|---|-------|----|
| s. | d | | | | £ | s. | d. | S. | d. | | | | £ | s. | d. |
| 3 | 3 | 3 | Half Cake | | 0 | 5 | 0 | 6 | 0 | 14 | Half Cake | | 0 | 15 | 0 |
| 4 | 0 | 6 | ,, | | 0 | 7 | 6 | 6 | 6 | 16 | ,, | | 0 | 18 | 0 |
| 4 | 6 | 8 | ,, | | 0 | 9 | 0 | 7 | 0 | 18 | ,, | | 1 | 1 | 0 |
| 5 | 0 | 10 | ,, | | 0 | 10 | 6 | 7 | 6 | 20 | " | | 1 | 5 | 0 |
| 5 | 6 | 12 | " | • | 0 | 12 | 6 | 8 | 6 | 24 | " | • | 1 | 11 | 6 |

WINSOR & NEWTON'S THUMB-HOLE BOXES.

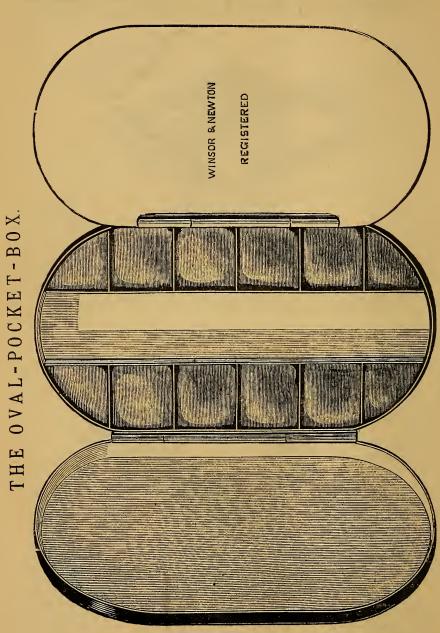


| | | | THUM | B-HOLE 1 | BOX. | | | Fit | ted w | ith |
|----|------|-----------|------------------------|----------|------------------|-------|-----|-----|-------|-----|
| Em | pty. | | | | | | | Co | olour | s. |
| s. | ď. | | | | | | | £ | 8. | d. |
| 9 | 0 | 11 Cake l | Moist Water | Colour | \mathbf{Thumb} | -hole | Box | 1 | 5 | 0 |
| 10 | 6 | 17 ,, | ditto | | • | | • | 1 | 15 | 0 |
| 12 | 0 | 21 ,, | ditto | | | | | 2 | 5 | 0 |

WINSOR & NEWTON'S PALETTE-BOXES.



| Emp | otv. | 1 | | PALETTE B | ox. | | | | ed w | |
|-----|------|----|-----------|----------------|-----------|---------|-----|---|------|----|
| s. | d. | 6 | Half Cake | Moist Water | r Colour | Palette | Box | £ | s. | d. |
| 5 | 0 | | with Pate | ent Flexible I |)ivisions | | | 0 | 8 | 6 |
| 5 | 6 | 8 | Ditto | ditto | ditto | | | 0 | 10 | 6 |
| 6 | 0 | 10 | Ditto | ditto | ditto | | | 0 | 12 | 6 |
| 6 | 6 | 12 | Ditto | ditto | ditto | | | 0 | 15 | 0 |
| | | | | | | | | | | |



THE OVAL-POCKET-BOX. (Size of the Box.)

WINSOR & NEWTON'S REGISTERED

JAPANNED TIN BOXES OF

MOIST WATER COLOURS.

THE OVAL-POCKET-BOX.

REGISTERED NO. 257,752.

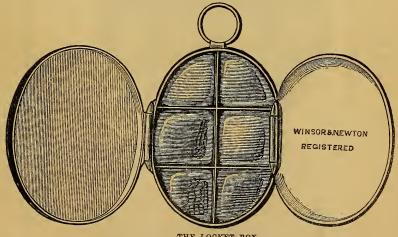
(As illustrated on opposite page.)

Very convenient for the pocket, both in shape and size. Contains twelve Colours, and has a division for brushes.

Fitted with twelve Colours, Price 15s.

THE LOCKET BOX.

REGISTERED NO. 257,753.



THE LOCKET BOX. (Size of the box.)

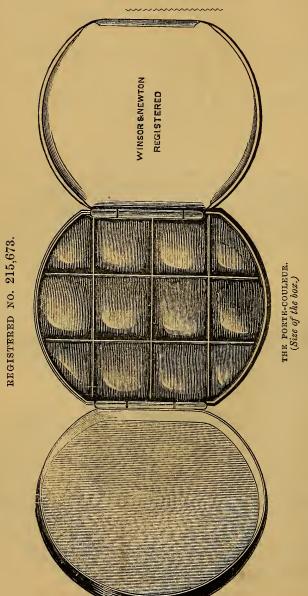
A neat, light, bijou Box, that can be carried on a watch-guard or chain, and containing six Colours.

Fitted with six Colours, Price 6s. 6d.

THE PORTE-COULEUR.

WINSOR & NEWTON'S REGISTERED JAPANNED TIN BOXES OF MOIST WATER COLOURS.

CONTINUED.



Small and compact for the waistcoat-pocket. Contains twelve Colours.

Fitted with twelve Colours, Price 10s. 6d.

WINSOR & NEWTON'S MOIST WATER COLOURS

IN COLLAPSIBLE TUBES.



Moist Tube Colours, though somewhat wasteful and troublesome in use, are of assistance as furnishing quickly a quantity of colour, and affording facilities for power of touch and vigour of effect. They should, however, be used within reasonable time, as they do not keep so long or so well as the ordinary solid or "Pan" form of Moist Colour.

| Antworm Plus Door Chrome Norder Vellers De- Harles | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|
| Antwerp Blue Bistre Blue Black Brown Ochre Brown Pink Burnt Sienna Burnt Umber Chinese White Chrome Yellow | Deep Chrome Emerald Green Gamboge Indian Red Indigo Italian Pink Ivory Black Lamp Black Light Red | Naples Yellow Neutral Tint New Blue Olive Green Orange Chrome Payne's Grey Prussian Blue Prussian Green Raw Sienna | Raw Umber Roman Ochre Terre Verte Vandyke Brown Venetian Red Vermilion Yellow Lake Yellow Ochre | | | | | | | | | |
| | 1s. 6d. | each. | | | | | | | | | | |
| Brown Madder Crimson Lake Indian Yellow Crimson Lake Indian Yellow Neutral Orange Crimson Lake (or Cyanine Blue) Mars Yellow Neutral Orange Purple Lake Roman Sepia Scarlet Lake Scarlet Lake Warm Sepia | | | | | | | | | | | | |
| | 2s. ea | ach. | | | | | | | | | | |
| Cobalt Blue | Orange Verm | ilion Vi | olet Carmine | | | | | | | | | |
| | 3s. ea | ach. | | | | | | | | | | |
| Aureolin Burnt Carmine Cadmium Yellow, Pale Cadmium Yellow Cadmium Yellow Cadmium Yellow Cadmium Yellow Cadmium Orange Carmine Green Oxide Chrom. Indian Purple Pink Madder Viridian Viridian | | | | | | | | | | | | |
| 5s. each. | | | | | | | | | | | | |
| Mars Orange Purple Madder Ultramarine Ash Smalt | | | | | | | | | | | | |

JAPANNED TIN BOXES OF MOIST TUBE WATER COLOURS,

Containing 12 Moist Tubes £1 1s.; 15 ditto, £1 11s. 6d.; 20 ditto, £2 2s.; 24 ditto, £2 12s. 6d.; 30 ditto, £3 13s. 6d.

WINSOR & NEWTON'S GLASS-COVERED MOIST WATER COLOURS

Illumination and Missal Painting,

Decorative and Ornamental Work, &c.

(See illustration on opposite page.)

The complete separation effected by the Colours being contained in separate Gallipots, the protection afforded by the glass lids, and the convenience of seeing tints through them, cause this form of colour to be most useful in all cases where it is of importance to avoid dust, dirt, and accidental admixture of tints. WINSOR and NEWTON'S Glass-Covered Moist Colours, being preserved clean and unsullied while in use, have been adopted generally for Illumination, and all kindred arts.

Colours and Prices same as those of Moist Water Colours in Pans.
Pages 12 and 13.

WINSOR & NEWTON'S

FITTED BOXES

OF GLASS-COVERED COLOURS AND MATERIALS

FOR

Illumination and Missal Painting,

DECORATIVE AND ORNAMENTAL WORK, &c.

Half Guinea Box.—Containing seven Half Colours in Pans, and fittings.

Guinea Box.—Containing eight Glass-covered Colours, and Materials.

Guinea and a Half Box.—Containing twelve ditto ditto.

Two Guinea Box.—Containing sixteen ditto ditto.

Three Guinea Box.—Containing twenty-one ditto ditto.

Five Guinea Box.—Containing twenty-four ditto and complete

Materials.



GLASS-COVERED MOIST WATER COLOUR.
' (See opposite page.)

WINSOR & NEWTON'S JAPANNED TIN BOX OF COLOURS AND MATERIALS FOR PAINTING ON GLASS.

Price £2 2s.

winsor & newton's french polished mahogany caddy lid box of colours and materials for Heraldic Blazoning.

Price £3 3s.

INDIAN INK.



"SUPER SUPER" INDIAN INK .- (Size of Stick.)

| Per stick. | Per | r stick. |
|---|-----------------------------|-----------|
| Good, small size 80 to the lb. $\begin{pmatrix} s. & d. \\ 0 & 6 \end{pmatrix}$ | Post lawsey 40 to the lb | s. d. 1 6 |
| Best, small size, ,, ,, 1 0 | Best, larger, 40 to the 10. | 2 6 |
| Very Choice "Super, Super". | | 7 6 |

PERMANENT CHINESE WHITE.



(Size of the bottle.)

WINSOR AND NEWTON'S Oxide of Zinc, sold under the name of

CHINESE WHITE.

A peculiar preparation of White Oxide of Zinc, the only eligible White Pigment for Water Colour Painters.

PRICE 1s. PER BOTTLE.

It is now upwards of thirty-seven years since WINSOR AND NEWTON turned their attention to remedying a want that was much felt by the Water Colour Painters of that day, viz.: of a White that should combine perfect permanency with good body in working. The invention and introduction of the pigment named by them "Chinese White" was the result, and its superior body and freedom of working immediately attracted the notice of the leading Water Colour Painters.

The late Mr. J. D. Harding being particularly desirous of ascertaining its permanency, and by submitting it to the examination of one of the greatest Chemists in Europe (the late M. Faraday), having satisfied himself that it might be employed with perfect safety, strongly recommended it in preference to all other white pigments. In his "Principles and Practice of Art," he wrote:—

"When this pigment, which is prepared by Winsor and Newton under the name of 'Chinese White' was first put into my hands, some years ago, I applied to one of my friends, whose name as a chemist and philosopher is amongst the most distinguished in our country, to analyze it for me, and to tell me if I might rely on its durability; the reply was, that if it would in all other respects answer the purpose I required of it, I had nothing to fear on account of its durability."

Ever since that time (1834) WINSOR AND NEWTON'S Chinese White has been in use by all the Eminent Water Colour Artists, and it is a source of great satisfaction to WINSOR AND NEWTON that they are able to say, that in no instance has any work of art, in which their White has been used, suffered from its employment, while prior to its introduction the complaints of Whites changing were of every day occurrence

WATER COLOUR LIQUIDS, MEDIUMS, &c.



BOTTLE OF LIQUID COLOUR. (Size of the bottle.)

| Liquid Indelible Brown Ink, for Outlines or for | 8. | d. |
|--|-----|----------------|
| Sketching per bottle | 1 | 6 |
| Liquid Prout's Brown ,, | 1 | 6 |
| Liquid Sepia ,, | 1 | ['] 6 |
| Liquid Asphaltum. (In bottles similar to illus- | | |
| tration on opposite page) ,, | 1 | 6 |
| Liquid Carmine ,, | 1 | 6 |
| Liquid Indian Ink, for Architects, Surveyors, &c. ,, | 1 | .0 |
| Colourless Liquid Ox Gall ,, | 1 | 0 |
| Artist's prepared Gum Water; pure, clear, and | | |
| strong small bottles . ,, | 0 | 6 |
| Ditto ditto middle bottles ,, | 0 | 9 |
| Ditto ditto large bottles . ,, | 1 | 0 |
| Water Colour Megilp ,, | 1 | 6 |
| Illuminating Body, for Illumination, Missal | | |
| Painting, &c ,, | . 1 | 6 |
| Raising Preparation, for Illumination, Missal | | |
| Painting, &c ,, | 1 | 6 |
| Water Mat Gold Size per gallipot | 1 | 6 |
| Prepared Ox Gall ,, | 0 | 6 |

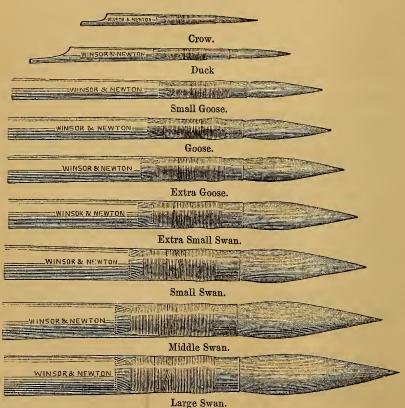
FINEST

BROWN OR RED SABLE BRUSHES

IN QUILLS

FOR

WATER COLOUR PAINTING.



WATER COLOUR SABLES IN QUILLS. (Sizes of the Brushes.)

FINEST BROWN OR RED SABLES IN QUILLS.

(See illustrations on opposite page.)

| Crow . Duck . | >> | 0 | 8 | Extra Small Small | Swan | each | s. 4 6 | d. 6 6 |
|------------------------|----|---|---|----------------------|------|------|--------------|--------------|
| Goose . Extra Goose | | | | Middle Large | | " | | |

FINE SIBERIAN HAIR BRUSHES IN QUILLS.

| Crow | | | | each | <i>s</i> . O | d. 2 | Extra Small | Swan | | each | s. 1 | d. 6 |
|-------|---|---|---|------|-----------------|---------|-------------|-------------|---|------|---------|---------|
| Duck | • | • | • | ,, | 0 | 4 | Small | ,, | | ,, | 2 | 6 |
| Goose | • | • | • | >> | 0 | 6 | Middle | ,, | • | >> | 3 | |
| | | | | | | | Large |)) " | | " | 5 | 0 |

CAMEL HAIR BRUSHES IN QUILLS.

| Crow | | | | each | s. 0 | $egin{array}{c} d. \ oldsymbol{1} \end{array}$ | Extra Small S | Swan | | each | s. O | $_{9}^{d.}$ |
|-------|---|---|---|------|---------|--|---------------|------|---|------|---------|-------------|
| Duck | | | | ,, | 0 | 1 | Small | ,, | | " | | |
| Goose | • | • | • | 33 | 0 | 2 | Middle | ,, | ٠ | " | 1 | |
| | | | | | | | Large | " | • | 22 | 2 | 0 |

WINSOR & NEWTON'S FINEST BROWN OR RED WATER COLOUR SABLES IN ALBATA.—FLAT.

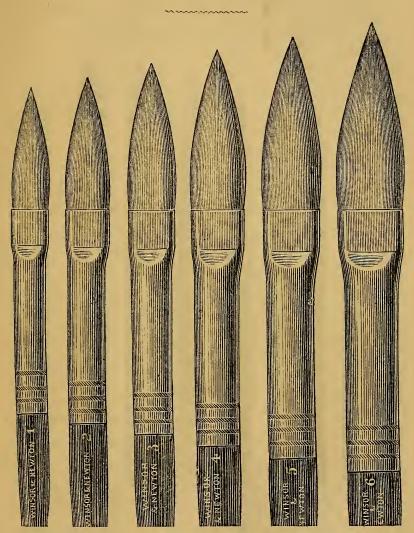


FLAT WATER COLOUR SABLES IN ALBATA .- (Sizes of the Brushes.)

| 3.7 | | | | | , | s. | d. | | _ | | | each | s. | d. |
|-----|---|---|---|---|------|----|----|-----|---|---|---|------|----|----|
| No. | 1 | • | • | • | each | 1 | O | No. | 5 | • | • | each | 2 | 6 |
| ,, | 2 | | | | ,, | 1 | 3 | ,, | 6 | | | " | 3 | 0 |
| ,, | 3 | | | | ,, | 1 | 6 | ,, | 7 | | | 33 | 4 | 0 |
| •• | 4 | | | | • | 2 | 0 | | | | | | | |

N.B.—These Brushes have *Ebony* Handles, and are marked with three nerls on their *Albata* Ferrules.

DITTO.—EXTRA LARGE SERIES.

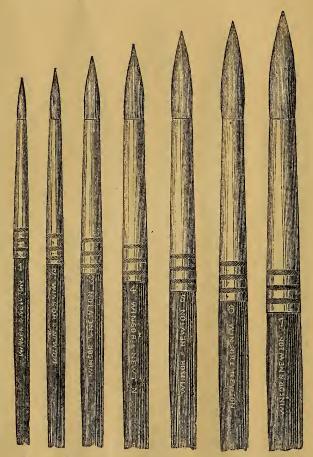


FLAT SABLES IN ALBATA.—EXTRA LARGE SERIES.—(Sizes of the Brushes.)

| * ' | | | s. | d. | | | | | s. | d. |
|--------------|--|------|----|----|-----|---|--|------|----|----|
| No. 1 | | each | 6 | 0 | No. | 4 | | each | 15 | 0 |
| 2 | | 11 | 9 | 0 | 22 | 5 | | " | 18 | 0 |
| ,, 2 ,, 3 | | ,, | 12 | 0 | ,, | 6 | | " | 21 | 0 |

Note.—Nos. 4, 5 and 6 made in Brown Sable only.

WINSOR & NEWTON'S FINEST BROWN OR RED WATER COLOUR SABLES IN ALBATA,—ROUND.

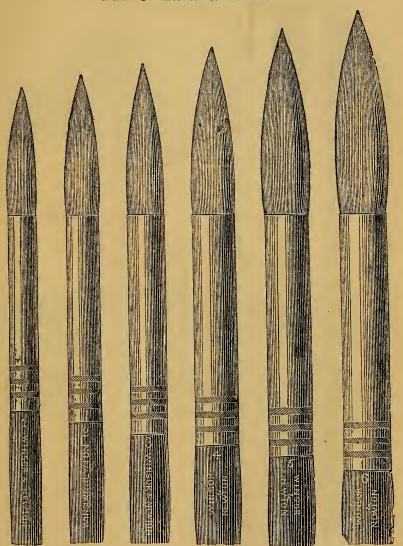


ROUND WATER COLOUR SABLES IN ALBATA .- (Sizes of the Brushes.)

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|-----|---|---|---|---|------|---------|--------------|-----|---|---|---|---|------|---------|---------|
| " | 2 | • | • | | " | 1 | 3 | ,, | 6 | • | • | | ,, | 3 | 0 |
| " | 3 | • | • | • | " | 1 | 6 | " | 7 | • | • | • | " | 4 | 0 |

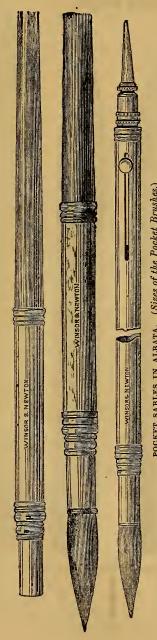
N.B.—These Brushes have Ebony Handles, and are marked with three nerls on their Albata Ferrules.

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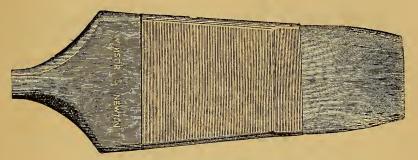


POCKET SABLES IN ALBATA. (Sizes of the Pocket Brushes.)

| -: 10 | • | | • |
|------------------------------|------------------------------|---------------------------------------|---------------------------------|
| <i>a</i> 0 | | | _ |
| 1 % | 10 6 | 15 0 | 0 |
| each | | z | per box 0 6 |
| • | • | • | be |
| | • | • | • |
| • | • | • | • |
| Small Pocket Sable in Albata | Large Pocket Sable in Albata | Silver Brush Case and Pencil combined | M. Leads for replenishing ditto |

These Brushes are made to accompany any of the Registered Boxes of Moist Colours (pages 21 and 22); thus supplying a light and instantly available means of sketching, tinting, or making colour notes.

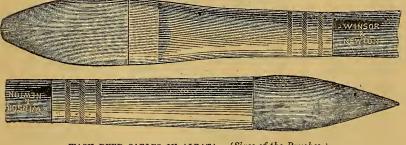
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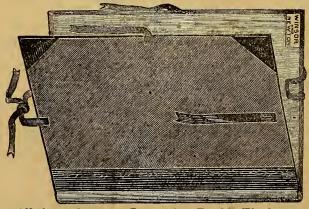
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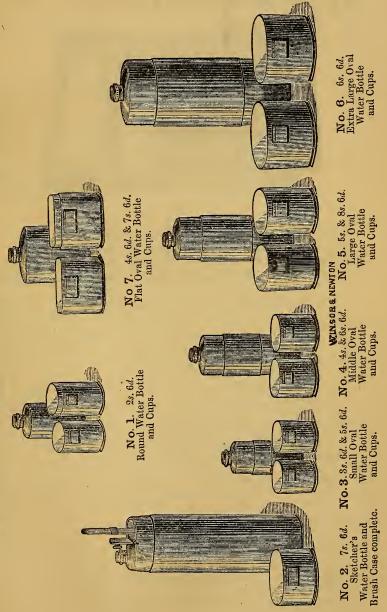




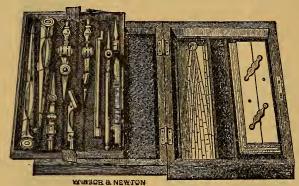
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|             | ditto                         |          | di   | tto          |              | ,,    | 0   |                              |
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| 21          | ditto                         | ,        | dit  |              |              | "     | 0   |                              |
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| . Ivory handle, Lift up nib (No. 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | 4 6   |  |  |  |  |  |  |  |  |  |
| " Electrum, Ivory Handle, Lift up nib (No. 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 5 6   |  |  |  |  |  |  |  |  |  |
| Dividers — Brass, Steel Joint (No. 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | 2 6   |  |  |  |  |  |  |  |  |  |
| " Brass, Sector Joint (No. 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 4 6   |  |  |  |  |  |  |  |  |  |
| " Electrum, ditto (No. 6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     | 6 6   |  |  |  |  |  |  |  |  |  |
| " Brass, Hair Points (No. 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | 7 6   |  |  |  |  |  |  |  |  |  |
| " Electrum ditto (No. 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     | 10 6  |  |  |  |  |  |  |  |  |  |
| Compasses—Brass, Steel Joint; Half set (No. 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | 5 6   |  |  |  |  |  |  |  |  |  |
| " Ditto slip shanks; ditto (No. 10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | 7 6   |  |  |  |  |  |  |  |  |  |
| " Electrum, Sector Joint, with bar; Half set, in Case (No. 11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | 31 6  |  |  |  |  |  |  |  |  |  |
| Universal Compasses, Brass, in case (No. 12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | 7 6   |  |  |  |  |  |  |  |  |  |
| Napier Compasses, Electrum, , (No. 13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     | 18 0  |  |  |  |  |  |  |  |  |  |
| Ditto, Complete set ditto , (No. 14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •   | 31 6  |  |  |  |  |  |  |  |  |  |
| Pillar Compasses, ditto , (No. 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •   | 31 6  |  |  |  |  |  |  |  |  |  |
| Ditto with bars ditto , (No. 16) .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •   | 42 0  |  |  |  |  |  |  |  |  |  |
| Proportional Compasses, ditto ,, (No. 17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •   | 42 0  |  |  |  |  |  |  |  |  |  |
| Tubular Compasses, with needles, Electrum, in case (No. 18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •   | 63 0  |  |  |  |  |  |  |  |  |  |
| Bows—Brass, Pen or Pencil (No. 19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     | 3 6   |  |  |  |  |  |  |  |  |  |
| " Ditto, ditto round points (No. 20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •   | 4 6   |  |  |  |  |  |  |  |  |  |
| 771 3:44- 3:44- (77. 07.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •   | 5 6   |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |       |  |  |  |  |  |  |  |  |  |
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