THE

CYCLOPAEDIA;

or,

Universal Dictionary

of

ARTS, SCIENCES, AND LITERATURE.

PLATES. VOL. II.

BASSO RELIEVO — HOROLOGY.
THE CYCLOPAEDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

BY


WITH THE ASSISTANCE OF

EMINENT PROFESSIONAL GENTLEMEN.

ILLUSTRATED WITH NUMEROUS ENGRAVINGS,

BY THE MOST DISTINGUISHED ARTISTS.

PLATES. VOL. II.

BASSO RELIEVO—HOROLOGY.

LONDON:

PRINTED FOR LONGMAN, HURST, REES, ORME & BROWN, PATERNOSTER-ROW,

F.C. AND J. RIVINGTON, A. STRAHAN, PAYNE AND FOSSE, SCATCHED AND LETTERMAN, J. CUEBELL,

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J. DICKINSON, J. PATERSBE, E. WHITESIDE, WILSON AND SONS, AND BRODIE AND LOWING.

1820.
Basso Relivo.

The Tomb Stone of Xanthippus Father of Pericles.

Brought from Athens by D. Ashew
In the Possession of Charles Townley Esq.

Drawn by J. Flaxman R.A.
Published as the Act directs, Jan. 26th by Longman & Broth. in St. Paul's Churchyard.
BASSO RELIEVO.

PLATE IV.

Fig 1 — Basso-relievo round a Capital in the Cathedral of Carrara.

Altar No. 2.

Nymphis
Quae sub colle
Sunt Arvam
Minia Caneria
Numini
Adivt Deo
Cum Statu.
Isis
Et Tabulato

Altar No. 1.

Fig 2 — Basso-relievo of Zeus, Anthepe & Amphora.

Published by Longman Hurst Rees Orme & Brown, London, Novem' 1818.
BLOCK MACHINERY AT PORTSMOUTH.

PLATE II.

Fig. 1.

Fig. 2.

Crown Saw.

Fig. 3.

Fig. 4.

PLATE B.

Cooking Engine.

Fig. 6.

Fig. 5.

Fig. 7.

Fig. 8.
PLAN OF A ROMAN CONSULAR CAMP ACCORDING TO POLYBIUS.

EXPLANATION AND REFERENCES.
1. The Praetorium or Generals' ground set apart for the Council containing 4,000 Roman square feet.
2. Ground behind the tents of the Triumvirs for their Horse-Hosts of
   50 men each, with 50 baggage horses.
3. Ground where the tents of the Triumvirs were pitched.
4. Ground behind the tents of the Prefects of the Allies for their Horse-Hosts of
   50 men each, with 50 baggage horses.
5. Ground where the tents of the Prefects of the Allies were pitched.
6. A wide street 100 feet wide called Principia from which the encampments of
   the cavalry and infantry of the Roman legions and of their Allies had their beginnings or commencements.
7. A street 50 feet wide between the Roman Horse.
8. The Horse of two Roman legions in ten troops each.
9. The Traum of two legions in ten
   Mammals each.
10. Two streets 50 feet wide each between the Traum and Principia of two legions.
11. The Principia of two legions in ten
    Mammals each.
12. The Hundred of two legions in ten
    Mammals each.
13. Two streets 50 feet wide each between the Hundred of the two Roman legions and the Horse of the Allies.
14. The Horse of the Allies wanting the
    Extraordinary.

15. The Infantry of the Allies wanting the Extraordinary who amounted to a
    fifth part of their whole number, in ten divisions each on the right and left sides of the Encampment.
16. A Via Quinques, 50 feet wide running across the camp between the fifth and
    sixth Mammals and troops reckoned from the Principia.
17. The Quadratum. 20 The Forum.
18. Quarters or encampment ground for the
    Horse guards of the Council and Xerxes.
20. A crafty street 100 feet wide.
21. The extraordinary Horse except those
    selected for the guards of the Council and Xerxes.
22. A street 50 feet wide.
23. The extraordinary Foot except those
    selected for the guards of the Council and Xerxes.
24. Quarters for any strangers that might
    arrive at the Camp.
25. A space two hundred feet broad between
    the outermost tents and the Rampart.
26. The Rampart, 28 The Ditch.
27. Porta principis ducenta.
28. Porta princpsae ducenta.
29. Porta Decumanana according to some
    but Porta Praetoria according to others.
30. Porta Decumanana according to some but
    Porta Decumanana according to others.
31. Porta Decumanana according to some
    Porta Decumanana according to some.
32. A space 50 feet wide on which are
    placed the principal dimensions of
    the different parts of the camp showing the whole together square or an equalangled
    right angled quadrangle.
33. A Trausus. Brachionum or Epaphus
    meeting with a ditch before it opposite
    to each of the Gates.

A Scale of 1000 Feet.
The total length of the CAMP from front to rear is 3310 Roman Feet or 2332 English Feet, and its extreme breadth from right to left is 1650 Roman Feet or 1581 English Feet. The intervalium is 60 Roman Feet wide or 58 English Feet; and the length of the space that was occupied by the troops is 716 English Feet and its breadth 445.
ARTILLERY.
ENCAMPMENT.

PLAN OF THE ENCAMPEMENT OF A PARK OF ARTILLERY,
with a Regiment of 12 Companies each consisting of 60 Privates.
The Park contains 30 Guns, 20 Howitzers, 20 Pontoon, 1 Forge, 156 Waggons, 2000 Horses and 670 Drivers.

EXPLANATION.
A B C D Bounds of the Park.
E Artillery Ground.
F Subalterns Tents.
G Captains Tents.
H Lieutenant Colonel.
I Colonel's Tent.
J Staff Officers Tents.
K Grand Suttons Tents.
L Petit Suttons Tents.
M Serjeants Tents.
N & O Bell's Armies.
P Alarm or Evening Guns.
Q Army Guard.
R Artillery Guard.
S Rear Guard.
T The Forge.
U The Stretas.
V The Batteries Tents, and
Horses of the Regiment.
W The Waggons Tents.
X Line of Waggons.
Y Howitzers.
Z Mortars.

Published as the Act directs, Also by Longman, Hurst, Rees & Orme, Paternoster Row.
Engraving by Wilson Lovers.
**CANALS.**

*PLATE II.*

Aqueduct BRIDGE at Kelvin on the Forth & Clyde Canal.

**Plan.**

Fig. 19

**Transverse Section.**

Fig. 20

**Elevation.**

Fig. 21

Published as the Act directs, 1829, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
CANALS.

CAST IRON AQUEDUCTS.

M. Telford's, on the Shrewsbury Canal at Long.

Fig. 23.

by M. Fulton.

Fig. 24.

Published as the Act directs, 1814 by Longman, Hurst, Rees, Orme & Co. Paternoster Row.
CANALS.
LOCKS.

Plan. Fig. 36.

Sections. Fig. 37.

Lower Gates. Fig. 39.

Upper Gates. Fig. 38.

Published as the Act directs 1819 by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry
CANALS.

Fig. 44. Barrow.

Fig. 45. Grating Tool.

Fig. 46. Shovel.

Fig. 47. Scoop.

Fig. 48. Horsing-Block.

Fig. 49. Scoop.

NAVIGATOR'S TOOLS &c.

Published as the Act directs, May 17th 1826 by Longman, Hurst, Rees, Orme & Brown. Paternoster Row.

Engraved by Wilson Lewis.
CANDLE.
CANDLE MAKING.

CANDLESTICKS.
CANNON.

BORING, &c.

Fig. 17.

Fig. 18.

Fig. 19.

Fig. 20.

Fig. 21.
Canteens.
Manufacture of
by Mr. Geo. Smart.

Fig. 1. A Canteen.
Fig. 2. Crease-cutting Saw.
Fig. 3.
Fig. 4. Tenning or rebutting Saw.
Fig. 5.
Fig. 6. Bung-stave.
Fig. 7. Boring Machine.
Fig. 8. Center bit.
Fig. 9. Slider.
CHEMISTRY.

Woullfe's Apparatus.
CHEMISTRY.
BLAST FURNACE.

Fig. 1.

Fig. 3.

Published as the Act directs, July 1st, 1804, by Longman & Rees, Paternoster Row.
BLAST FURNACE.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Published as the Act directs, March 1795, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.
ANCIENT CHEMICAL CHARACTERS.

Substances

- Acetum distillatum
- Acetum putridum
- Acetum nitricum
- Acetum vitriicum
- Aquae aquae vivae
- Aquae fortis
- Aquae regia
- Terra vitrobulbus
- Terra vitriolubus
- Terra vivabilius
- Terra vivabilis
- Tinum
- Siderum

Examples of Combination

- Vapour fixed vegetable alkali
- Vapour fixed oxidated fixed
- Vegetable alkali
- Mercury sublimate
- Platinum
- Silver
- Mercury
- Lead
- Copper
- Iron
- Bismuth
- Nickel
- Arsenic
- Cobalt
- Zinc
- Antimony
- Manganese

Published on the 1st May, 1825 by Longman, Hurst, Rees, & Orme, Paternoster Row.
CHEMISTRY.

APPARATUS FOR THE DISTILLATION OF PYROLYXEOUS ACID.
Published as the Act directs, Dec. 1867, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.
CONICS.

PLATE V.

Fig. 32.

Fig. 33.

Fig. 34.

Fig. 35.

Fig. 36.

Fig. 37.

Fig. 38.

Fig. 39.

Fig. 40.

Fig. 41.

Fig. 42.

Fig. 43.

Published at the Art Printer's Office, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by William Leamy.
COTTON MANUFACTURE.

CALICO PRINTING.

PLATE 1.

Published as the Act Directs, 1799 by Longman, Hurst, Rees, Orme, and Brown, Paternoster Row.

Engraved by Wilson Lowry.
COTTON MANUFACTURE.

ROLLING CAN FRAME.

A Roller beam.
B Front Roller.
C Back Roller.
D Top front roller.
E Revolving gin.
F Roller weights.
G Gun Pulley.
H Back gin.
I Driving Pulley.
J Lower pulley.
K Gun funnels.
L Cleaver.
P Front roller pulley.
K K Robbins.
COTTON MANUFACTURE.

THROSTLE SPINNING FRAME.

Fig. 1.

Fig. 2.

Fig. 3.

Elevation in Front.
Machine for winding sewing cotton into Balls.
COTTON MANUFACTURE.

PLATE XIII.

Fig. 1. DOUBLING MACHINE.

Fig. 2.

Fig. 3. TWISTING MACHINE.

End View, Fig. 3.

Elevation, Fig. 4.
COTTON MANUFACTURE.

Sections of one of Messrs. Strutt's COTTON MILLS at Helper in Derbyshire.

PLATE XIV.

Longitudinal Section. Fig. 1.

Section of the Wings. Fig. 3.

Fig. 2.

Cross Section.
Fig. 1. Two Troughs of a Grinding Mill.

Fig. 2. Tongs for Pressing Knife Handles.

Fig. 3. Spring Drill.

Published at the J. B. D. 1841 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Engraved by W. Levey.
DIALLING.
DECLINATOR.

EqUINOCTIAL DIAL.

HORIZONTAL DIAL.

UNIVERSAL DIAL.

V E R T I C A L S O U T H D I A L.

Published as the act directs 1829. by Longman, Hurst, Rees & Orme, Paternoster Row.
Engraved by W. Lowry.
From an original Drawing by Gaspar Poussin in the collection of Benjamin West Esq. "P R .1"
FOR Fig. 6. of this Plate see Plate TURNING, Fig. 20.
DRAWING INSTRUMENTS.
DELINNATORS.

McPoree's delineator.

Miss Edgeworth's delineator.

Ramden's Optigraph
improved by Dr. Jones.

McWhiston's Camera Lucida.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.
ELECTRICITY.

ELECTRICAL MACHINE & BATTERY.
ELECTRICITY.

DISCHARGER AND DOUBLER.

PLATE III.

**Fig. 10.**

**Fig. 11.**

**Fig. 12.**

**Fig. 13.**

**Fig. 14.**

**Fig. 15.**

**Fig. 16.**

**Fig. 17.**

**Fig. 18.**

**Fig. 19.**

**Fig. 20.**

**Fig. 21.**

**Fig. 22.**

**Fig. 23.**

**Fig. 24.**

**Fig. 25.**

**Mr. Cavallo's Doubler.**

*Fig. 22.*

*Published by the Author.*
ELECTRICITY.

ELECTRICAL EXPERIMENTS.

PLATE IV.
ELECTRICITY.

Mr. Cuthbertson's Electrical Machine.
MEDICAL ELECTRICITY.

THUNDER HOUSE.

TORPEDO.

BRUSH.

Inside connecting Frame of Tytlers BATTERY.

Published as the Act directs, 1794 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
ENGINE.

M. R. SALMON'S WEIGHING MACHINE.
Engines.

Cutting Engine by Hindley.

Fig. 1

Fig. 2

Fig. 3
CUTTING ENGINE.
ENGINES.

Cutting ENGINE by Rehe.

PLATE IV.
ENGINES.

CUTTING ENGINE by REHE.

Fig. 3.
Short arbor

Fig. 2.
For annular wheels

Fig. 1.
For worm wheels

Fig. 4.
Wheel fixed on the arbor of the cutter

Fig. 5.
Cutter arbor

Published as the act directs, 1818 by Longman, Hurst, Rees, Orme, & Brown, Paternoster Row.

Lowry Sculp
ENGINES.

For sharpening Cutters

BY REHE.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Published as the 1st directo, 1815, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
ENGINES.

A perspective view of Mr. RAMSDEN's dividing Engine.
Fig. 2.
PLAN
of the Great Wheel.

Section of the Great
Wheel through the line W. Δ.
Fig. 1. Elevation. Fig. 2. Plan.

Fig. 3.
ENGINE for cutting the Screw of RAMSDENS Straight Line dividing Engine.

Plan Fig. 1.

Elevation Fig. 2.

Scale of Inches.
PLATE I

BASTION.

Fig. 1.

PLATE II.

BATTERY.

Battery en Barbe or Barbet.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 8.

PLATE IV.

FORT.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Published as the Act directs, 1813 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
Fig. 1.
FORTIFICATION
Irregular

Fig. 4.
FORTIFIED PLACE

NAMES OF THE WORKS.
1. Moat or Ditch.
2. Court wall.
3. Counter-coup.
5. Double Trench.
6. Trench in the Ditch.
7. Horn Work.
9. The Moat or Ditch.

NAMES OF THE APPROACHES.
1. Trench of Approach.
2. Line of Communication.
4. Ports or Ditches on the Trenches.
5. a. Sep.

PROFILE OF A FORTIFICATION

For Fig. 3 see another PLATE.
FURNACES.

Furnaces used by M'Adam for his experiments on Iron & Steel.

Fig. 1.

Fig. 2.

Section of the Tobacco pipe maker's Furnace.

Fig. 3.

Plan. Fig. 4.

A. "Ferris. ins. del.

Published at the Albertate 1818, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
FURNACE.

Furnace for Enamelling Watch Dial Plates.

PLATE I.

Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 9.

Fig. 10.

MC Bone's Enamelling Furnace.

Scale of Feet.
GARDENING.

HOT - HOUSE.

Fig 1. Elevation.

Fig 2. Plan

Sheets

for

Utensils.

Foot path

Ton-pit

Fig 4.

Fig 5.

Fig 3.

Published at the Ait Juriet, 1829, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
GEOMETRY.

Plate 1.

Published as the Act directs, Sept. 7, 1855, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.
Published at the Art House, 1852, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
GEOMETRY.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Published as the delineated plan by Longman, Hurst, Row, Orme & Brown, Paternoster Row, London.
GEOMETRY

ANGLE

Fig. 1.

SUBNORMAL

Fig. 2.

LINGENT

Fig. 3.

TETRAHEDRON

Fig. 4.

TRIANGLE

Equilateral

Fig. 5.

Similar

Fig. 6.

Sectone

Rectangular

Fig. 7.

Obtuseangular

Fig. 8.

Measurement of

Fig. 9.

Properties of

Fig. 10.

Refraction

Fig. 11.

Goldsmith's

COLUTE

Fig. 12.

Fig. 13.

UNGULA

Fig. 14.

Published for the Author, 1817, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.
HERALDRY.

PARTITION LINES

- Horizontal
- Angled
- Bevelled
- Escaratele
- Nowy
- Arched

ESCUTCHEON POINTS

- Seme
- Masoned
- Orange
- Fountain
- Guze

ROUNDLES

- Bezant
- Plate
- Torteaux
- Hurt
- Pomme
- Golpe
- Pellet

METALS and COLOURS

- Or
- Argent
- Gules
- Azure
- Vert
- Purpure
- Sable

- Orpul
- Silver
- Red
- Blue
- Green
- Purple
- Black

FURS

- Ermine
- Ermines
- Erminois
- Plain
- Vair
- Counter-Vair
- Potent

ABATEMENTS

- Delph
- Escutcheon Reversed
- Point Dexter
- Point en Point
- Point champion
- Plain Point
- Goar Sinister

Published as the 2d edition, May 1, 1853. by Longman & Bow, Lithographer.
HERALDRY.

PLATE VI

CROSS
- St. George

C ENGRAVED
- Warner

C WAVY
- Gilroy

C QUARTERLY
- Beverley

C FLAMANT
- Finsbrough

C PIERCED
- Dunkerfield

C RECOURSIE
- Knebworth

C BROADLY
- Lawrence

C MOUNTED LOZENGY
- Newkirk's

C CROSSED
- Buck

C電子郵件
- Boundary

C PATTEE THROUGHOUT
- Bouchard

C DESEARED & CONJOINED
- Wynterworth

C MOUNTED DESEARED & CONJOINED
- The Holy Ghost or Holland

C CODLED
- Groby

C EYVONCAST
- Evesham

C PLEURI
- Van Zouanell

C INTERLACED WITH AN BOUDE
- Fardin

C 4 FUSILS IN CROSS
- Fussell

C 5 LOZENGES
- Martine

C 4 PUSILLY
- Fotheringhay

C BEZANTEE
- Levesagol

C 3 TRIANGLES
- Barke

C CABLED
- Cable

C VOIED
- Apulkerford

C DOUBLE VOIED
- Crevous

C DOUBLE PARTED
- Doubler

C DOUBLE PARTED & PLED
- Tredowce

C TRIPARTED & PLED
- Fronshe

C 4 TRIPARTED & PLED
- Tyser

C ANCIENT
- Chelvey

C PATTEE ENTIRE
- Clapton

C 3 PATTEE ENTIRE
- Crallp

C COUPED & PLED
- Curver

C 4 COUPED & PLED
- Recuercale

C 3 PATTEE
- Leippe

C PATTEE PARTED OF THE FIELD
- Welinton

C PATTEE CONCEIVED
- Wadley

C PATTEE FITCH
- Mapledon

C PATTEE FITCH PARTED
- Count Littlebridge

C 3 PATTEE
- Well

C PALL
- Woodbridge

C PALL
- Woodbridge

Published at the 3rd storey, Reg'd Office by Longman, Hurst, Brown, Green, and Longman, Bow.
HERALDRY.

Achievements borne at the Interment of the R.Hon. Wm. Pitt Earl of Chatham & Vissant Pitt subsumed in Westminster Abbey at the Public Expense on Tuesday June 9th 1778.

The Standard

The Banner of the Family of Chatham.

Target & Sword

The Great Banner.

Banner of the Arms of Pitt and Grenville

Helmet & Crest

Banner of the Arms of Grenville and Temple

Banner of the Crest of Pitt with Emblyne.

Surcoat

Banner of the Arms of the Viscount Eblen.
HERALDRY.
Heraldic Crowns, Coronets and Helmets.

Plate XI

Helmets, Crests and Mantling of Lambrequins of the
BRITISH SOVEREIGN.

Nobility
King of Arms
Baronet & Knight
Ancient Barons Cap worn previous to 1683.
Esquire

Ducal
Mural
Naval
Valachi
Palatine
or Garterorial

Civic
Eastern
Chapeau
or Cap of Maintenance
Celestial
 Chaplet
or Garland

Wreath
Laureate
Oblivional
Olive
Trigonal

Published at the An Act for 1783 by Longman & Brown, Bark Street.
Published as the Act directs June 24th 1806 by Longman, Hurst, Rees & Orme, Paternoster Row

Engraved by Wilson Laver
HOROLOGY.

Chime Work in the Clock Room
of St. Margaret's Church, Westminster.

Fig. 1.

Fig. 2.
HOROLOGY.

CHIMES.

Meyel's German Hymn.

Fig. 1.

Published on the Act directe, April 1 1807, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by Wilson Lowry.
HOROLOGY.

ANCIENT CLOCK BY HENRY DE WICK, IN 1370.

Fig. 1.

Fig. 3.

Fig. 2.

Fig. 4.

Fig. 5.

Published on the Act directt, 1758, by Longman, Hurst, Rose & Orme, Paternoster Row.

Engraved by Wiliam Lowry.
HOROLOGY.

A Thirty hours Clock with "Alarm and Count Wheel Striking Work.

Fig. 1.

Published as the act directs, after, by Longman, Hurst, Rees, Orme, & Brown, Paternoster Row, London.
HOROLOGY.

CALLIPERING.

(Art. Clock)

Fig. 1.

Fig. 3.

Published as the Act directs, 1818, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by W. Lowsley.
HOROLOGY.

Portable eight days Clock.

Fig. 1.

Fig. 2.

Fig. 3.

Published as the Act directs, price, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row.

Engraved by W. Lowry.
Horology.

Dial, Work and Striking Part of an Eight Days Clock.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.
HOROLOGY.

ARNOLD'S AND EARNSHAW'S CHRONOMETERS.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

J. Fawc Jun. delin.

Published as the Act directs. Engraved by Longman, Hurst, Rees & Orme. Paternoster Row.
HOROLOGY.

CLOCK WITH CHIMES.
HOROLOGY.
CLOCK TOOLS.

Fig. 2.
Fig. 1.
Fig. 9.
Fig. 10.
Fig. 3.
Fig. 11.
Fig. 12.
Fig. 5.
Fig. 6.
Fig. 7.
Fig. 8.
Fig. 13.
Fig. 14.
Fig. 15.
Fig. 16.
Fig. 17.
Fig. 18.

Published as the Act directs, 1839, by Longman, Hurst, Rees and Orme, Paternoster Row.
Engraved by Wilson Lowry.
HOROLOGY.

CLOCK TOOLS.

Fig. 1.

Fig. 6.

Fig. 2.

Fig. 7.

Fig. 17.

Fig. 16.

Fig. 18.

Fig. 3.

Fig. 14.

Fig. 4.

Fig. 5.

Fig. 15.

Fig. 13.

Fig. 11.

Fig. 12.

Fig. 9.

Fig. 10.

Fig. 1.

Published by Longman, Hurst, Rees & Orme, Paternoster Row. March 1st 1829.

Engraved by Wilton Lowry.
HOROLOGY.
Astronomical Clock by REID.

Published as the Act directs, also, by Longman, Hurst, Rose & Orme, Paternoster Row.
Engraved by W. Louny.
HOROLOGY.

Astronomical Clock by Messrs. Brockbanks.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Published at the jet directe, 1791, by Longman Hurst, Rees, Orme & Brown, Paternoster Row.

Engraved by W. Lowry.
HOROLOGY.

TROUPHTON'S PENDULUM.
HOROLOGY.

COMPENSATION CURBS.

PLATE XVIII.

Published as the Act directs, 1818, by Longman, Hurst, Rees & Orme, Paternoster Row.

Engraved by William Lowry.
New DIAL mark of a small Spring Clock shewing the Phenomena of the Moon, &c.
HOROLOGY.

Dial Work.

PLATE XXXIII.

Fig. 1.

Fig. 2.

GEO. MARGETTS, LONDON.

Fig. 3.

Drew by J. Cary, Jnr.

Published as the Act directs, 1813, by Longman, Hurst, Rees, & Orme, Paternoster Row.

Engraved by W. Lony.
HOROLOGY.
FRENCH ESCAPEMENTS for Chronometers.

Fig. 1.

Peter le Roy's Improved
The balance is in its quiescent position

Fig. 2.

Fig. 3.

Berthoud's Detached

Fig. 4.

Berthoud's Improved No. 60.

Fig. 5.

Berthoud's without a Spring

Fig. 6.

Berthoud's with a Spring and Jewel in No. 9.

Fig. 7.

Berthoud's Isochronal

Fig. 8.
HOROLOGY.

ESCAPEMENTS &c.

Fig. 2.

Nicholson's.

Fig. 5.

Massey's.

Fig. 3.

Goodrige's.

Fig. 4.

Berthoud's.

Fig. 1.

J. Eray delin.

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Engraved by W. Lowry.
HOROLOGY.

FUSEE ENGINE acting by an inclined Plane.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

FUSEE ENGINE with a Screw and Lever.

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HOROLOGY.

COMPENSATING PENDULUMS.

Fig. 1.

Fig. 2.

Fig. 3.

Graham's
Mercurial

Regnauld's,
Fig. 5.

Deparcieux's

Fig. 6.

Fig. 7.

Fig. 8.

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Lowry sculp.
HOROLOGY.

REPEATING WATCH.

Fig. 1. Spring

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

WHEELWORK
HOROLOGY.
REPEATING and ALARUM WATCHES.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

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HOROLOGY.
REPEATING WATCHES.

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 8.

Infallible Repeater by M. Berollus

Detached parts

Galilier