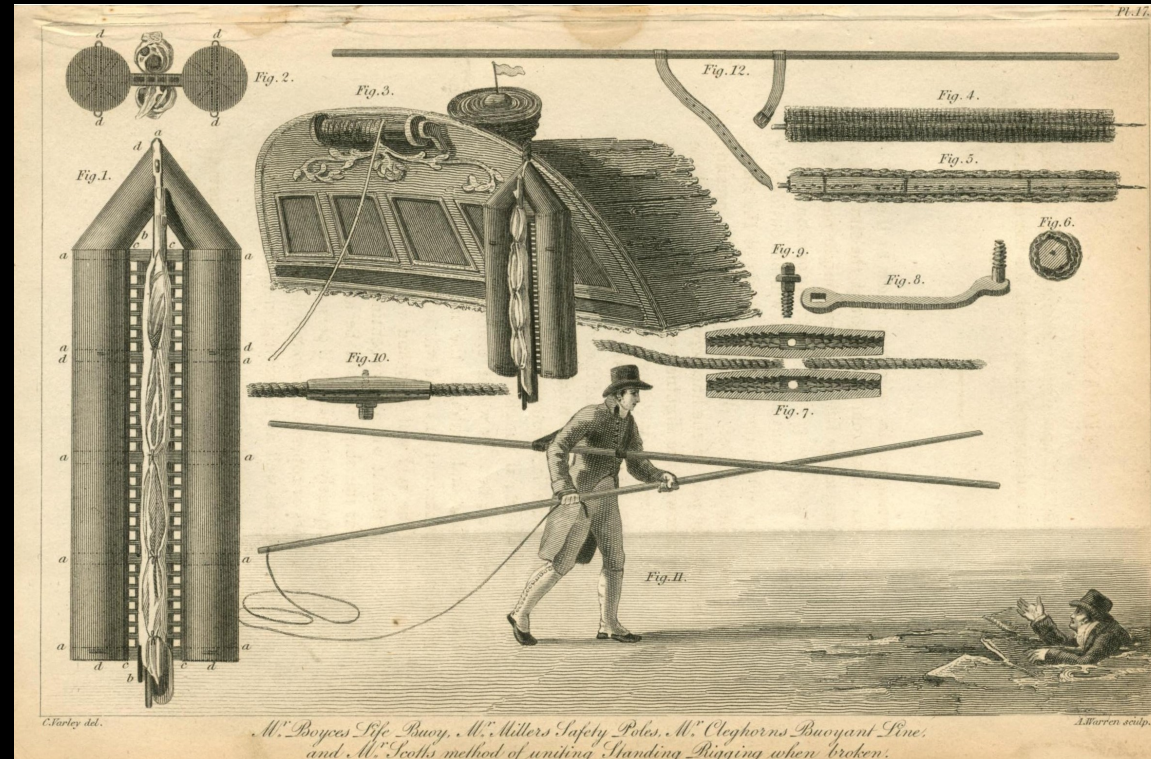


Quel coût pour un dessin technique ?

Étude de cas du système économique de la *Society of Arts* (1770-1850)



Cleghorn, *Transactions of the Society of Arts*, vol. 32, 1815

Elements of context

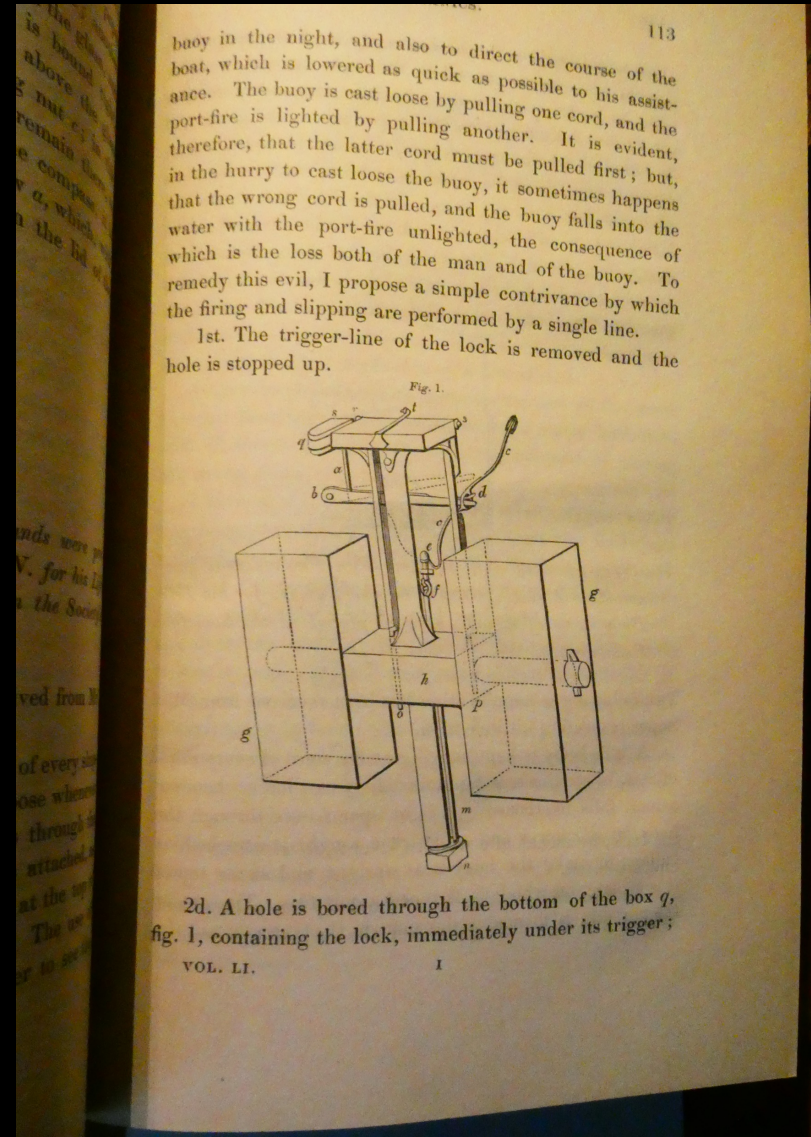
- William Shipley (1715-1803):
Drawing master
- 1754: Foundation of the Society
- Idea of public good, promotion
of « polite arts » and industry



Art.uk

- More than 2000 prizes awarded (1754-1843)
- Different steps:
 - Submission
 - Committee examination:
 - Agriculture
 - Chemistry
 - Manufacturies
 - Polite Arts
 - Mechanics
 - Trade & colonies
 - Composition of a *Manuscript Transactions*
 - Publication of the *Transactions*
- *Manuscript Transactions* : 150 volumes
- *Transactions* : 61 volumes

Transactions of the Society of Arts



Transactions, Vol. 28

Davis, Fire Escape, Transactions, Vol. 28

Soper, Life Buoy, Transactions, Vol. 51-1

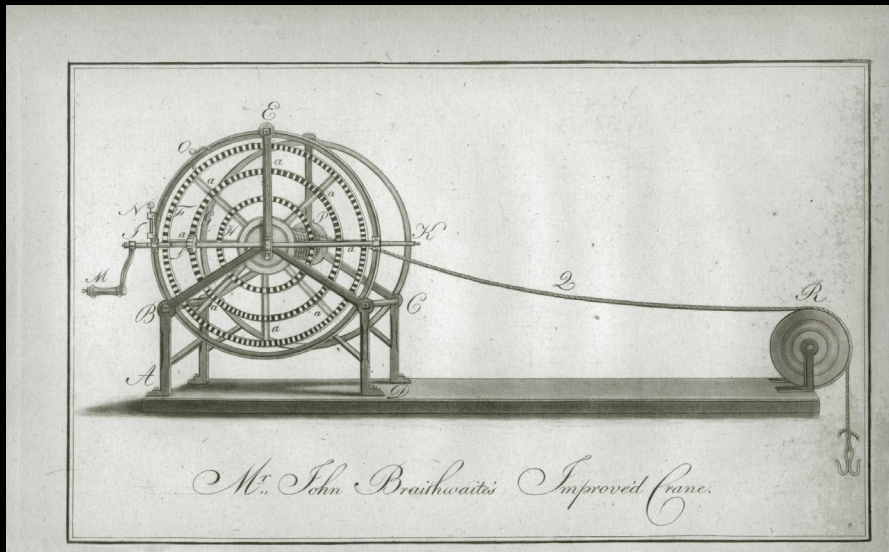
- D. G. C. ALLAN, John L. ABBOTT, *the Virtuoso Tribe of Arts and Sciences*, The University Georgia Press, Athens Geo, 1992 ;
- Liliane HILAIRE-PÉREZ, *L'invention au Siècle des Lumières*, Paris, Albin Michel, 2000 ;
- Celina FOX, *The Arts of Industry in the Age of Enlightenment*, New Haven, London, Yale University Press, 2009 ;
- Matthew PASKINS, *Sentimental Industry: the Society of Arts and the Encouragement of Public Useful Knowledge, 1754-1848*, Thèse de doctorat, University College of London, 2014 ;
- Théo MAYNE, *Étude du Repository de la Society for the Encouragement of Arts, Manufactures and Commerce de Londres à partir des catalogues de William Bailey de 1772 et d'Alexander Mabyn Bailey de 1779*, Mémoire de Master, Université de Paris, 2018 ;
- Marina GIARDINETTI, *Exercices de style : Éducation et pratiques Artistiques des jeunes femmes de la Society of Arts*, Mémoire de Master, Université de Paris, 2019 ;
- Anton HOWES, *Arts and Minds: How the Royal Society of Arts Changed a Nation*, New Jersey, Princeton University, 2020.

Three periods:

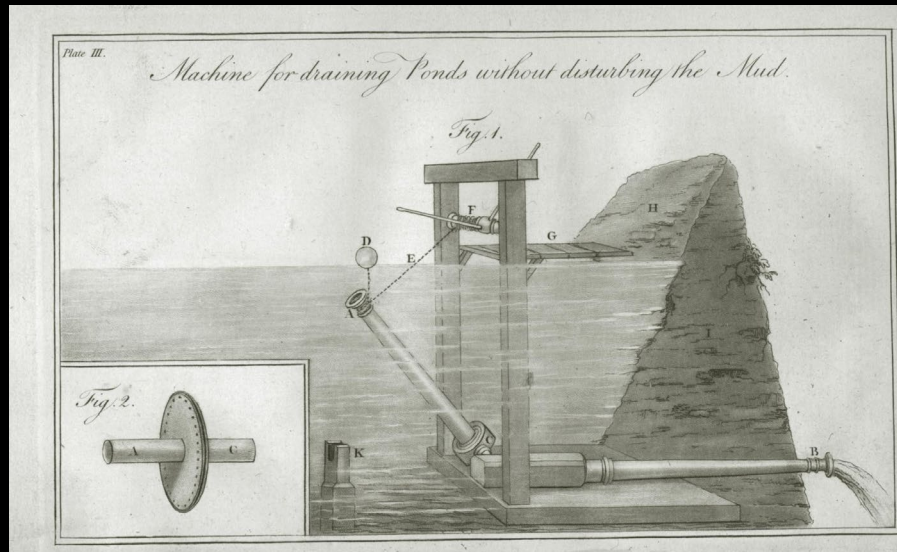
- 1784-1800: Samuel More's secretary
- 1800-1828/9: Drawings « from nature »
- 1828-1848: Drawings on wood engravings

Samuel More (1724-1799)

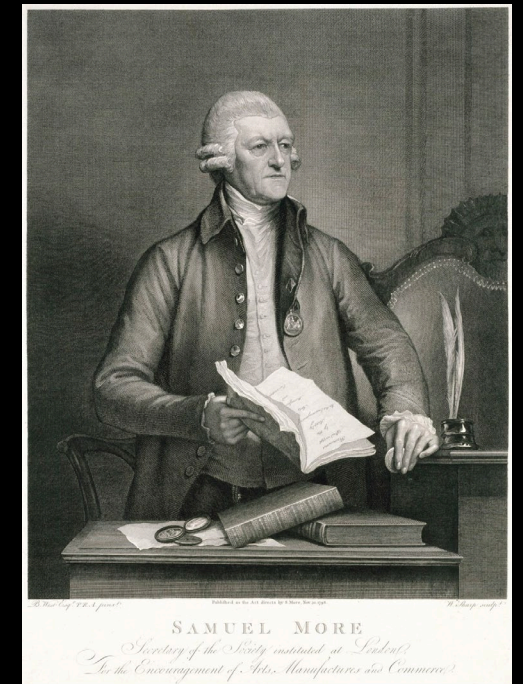
- Formation of apothecary
- Appointment as a Secretary in 1769
- Launch the publication of the Transactions in 1784



Braithwaite, Crane, *Transactions*, Vol. III, 1785

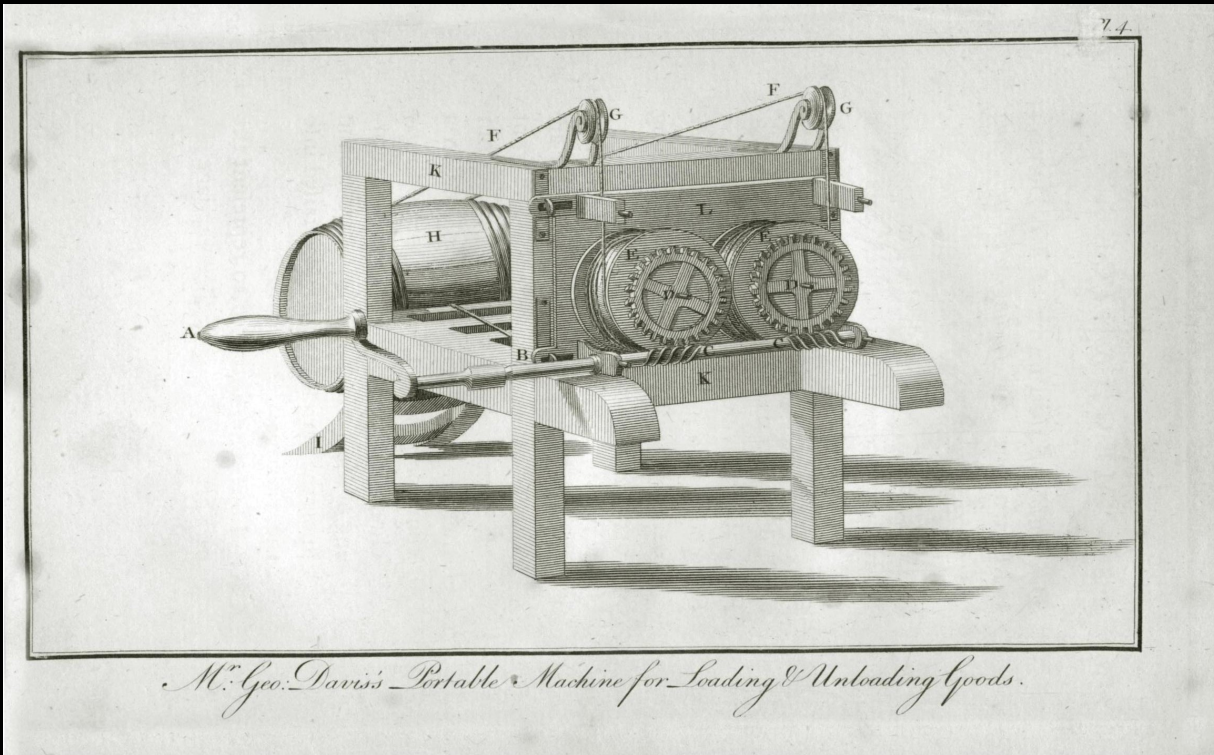


Dansey, Draining machine, *Transactions*, Vol. VIII, 1790

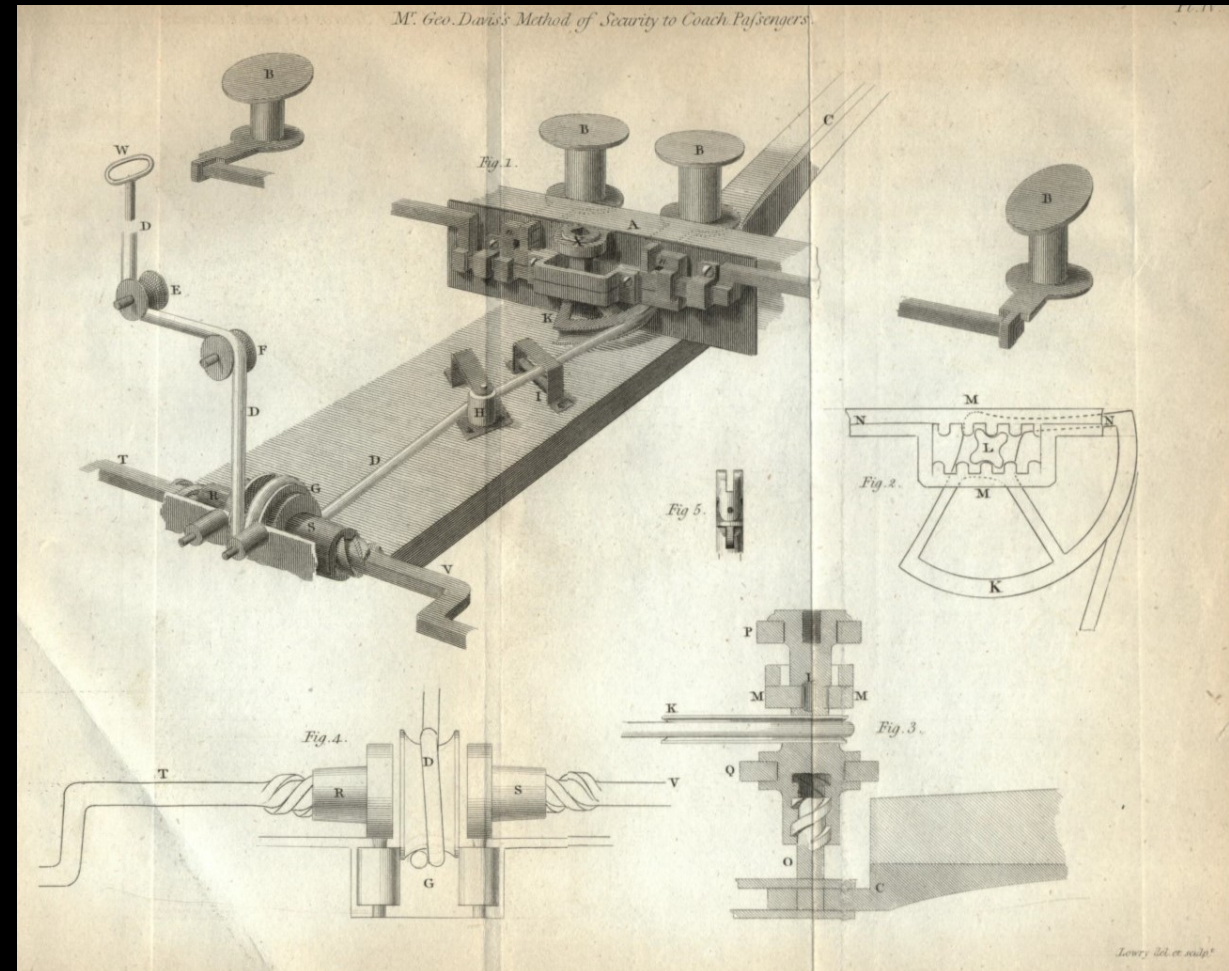


Portrait of Samuel More, Benjamin West, 1798,
Royal Academy

Comparison of More's drawing and a professional one

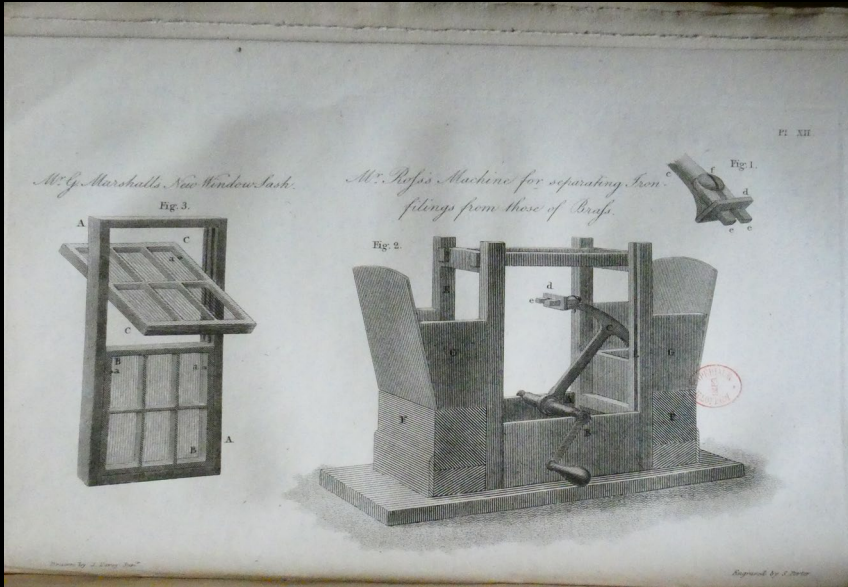


Davis, Portable machine for Loading goods, *Transactions*, vol. 15, 1797

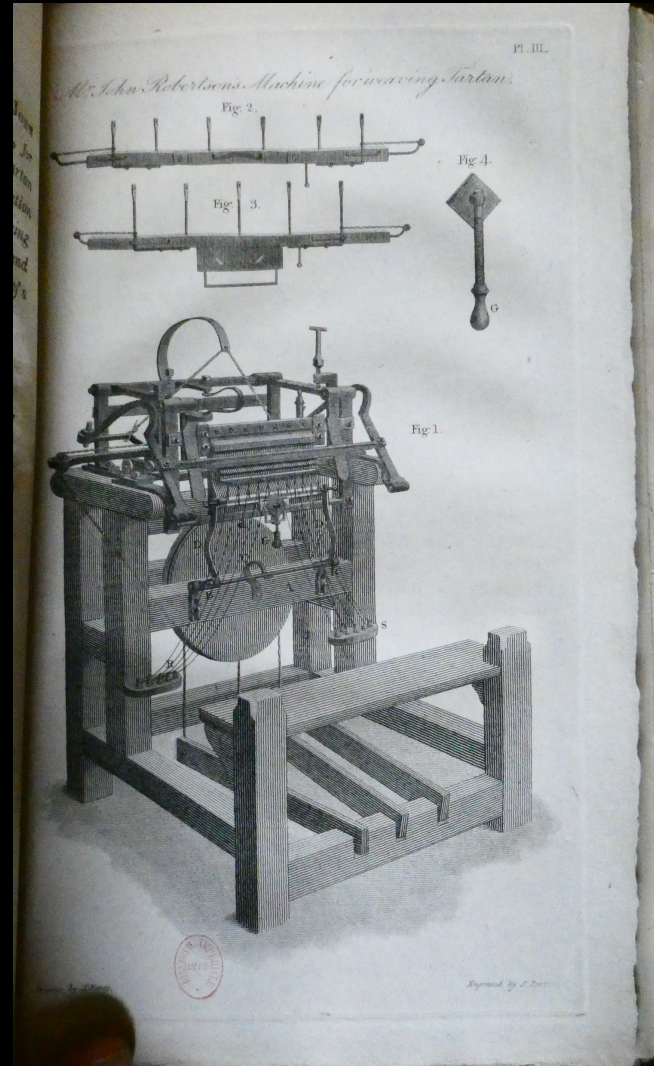


Davis, Method of security to coach passengers, *Transactions*, vol. 18, 1800

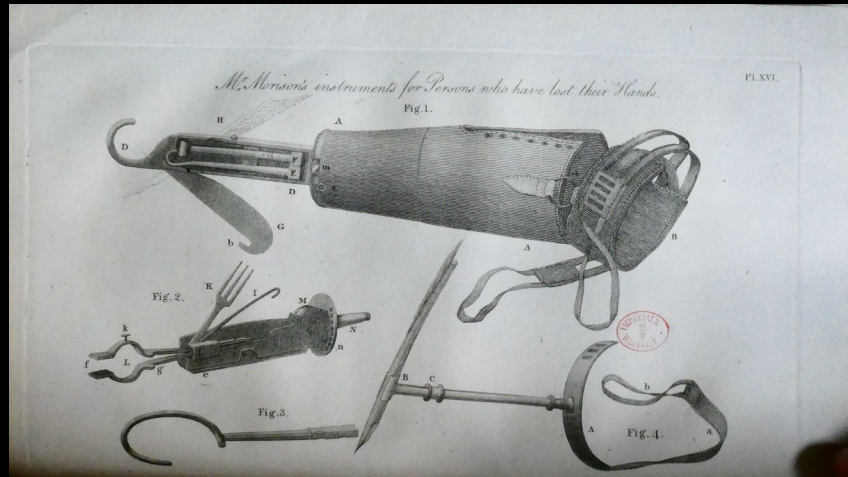
Porter's engravings



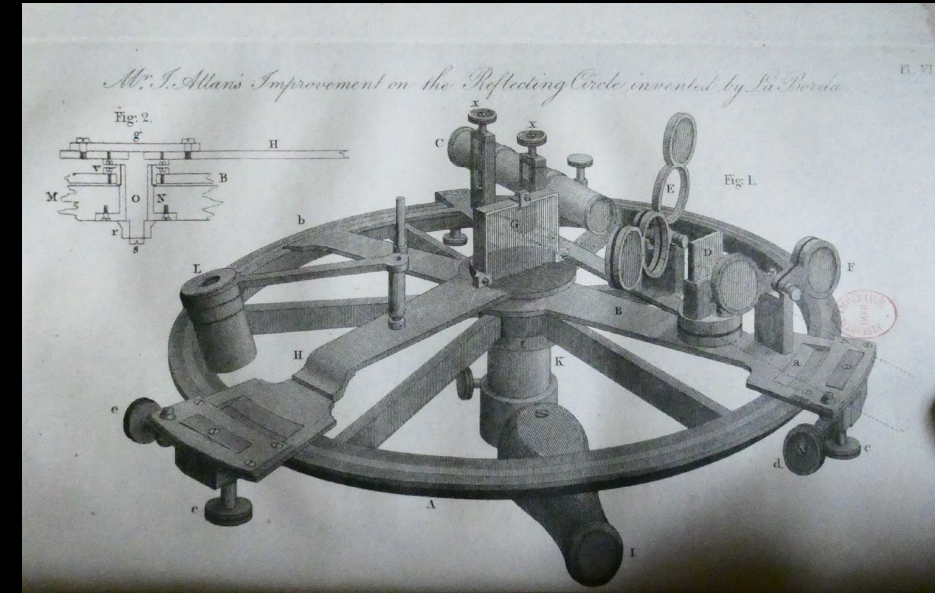
Ross, Machine for separating Iron filings, *Transactions*, vol. 28, 1810



Robertson, Machine for weaving Tartan, *Transactions*, vol. 29, 1811



Morison, Instruments for persons who have lost their hands, *Transactions*, vol. 28, 1810



Allan, Improvements on the Reflecting Circle invented by La Borda, *Transactions*, vol. 29, 1811

AN
Essay
ON
MECHANICAL DRAWING:
COMPRISING AN
ELEMENTARY COURSE OF PRACTICE
IN THE
PERSPECTIVE DELINEATION
OF
M A C H I N E R Y.

ILLUSTRATED IN NUMEROUS PLATES.

BY
CHARLES BLUNT,
ENGINEER DRAFTSMAN, &c. &c.

LONDON:

PRINTED FOR R. ACKERMANN, 101, STRAND,

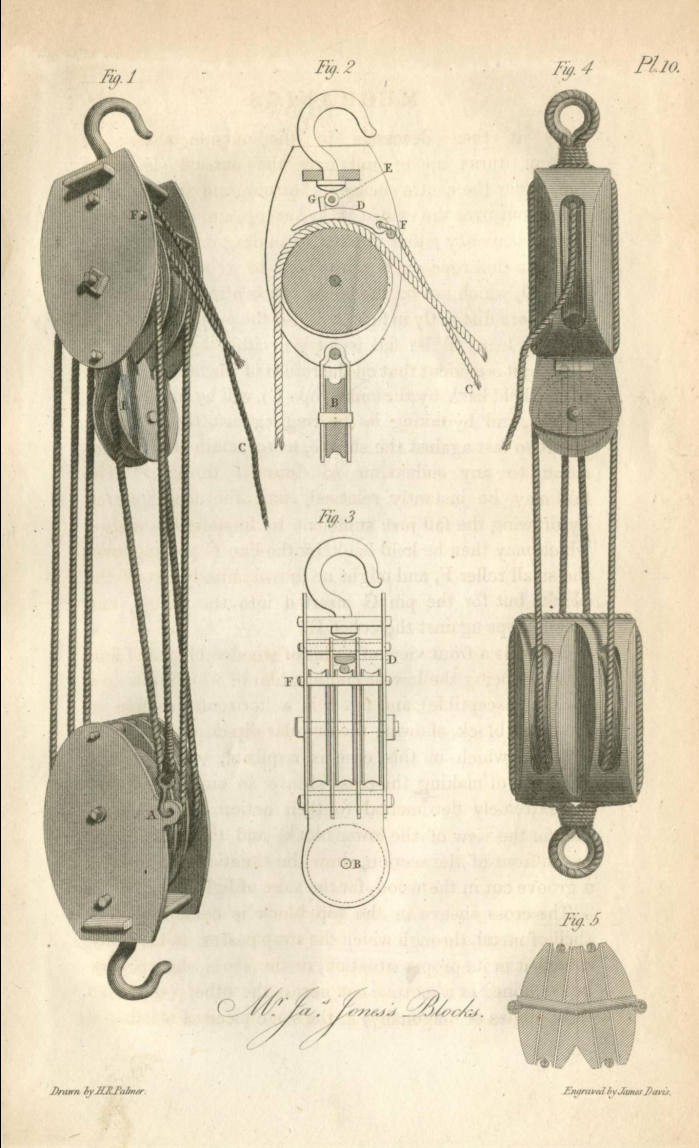
By L. Harrison & J. C. Leigh, 375, Strand.

1811.

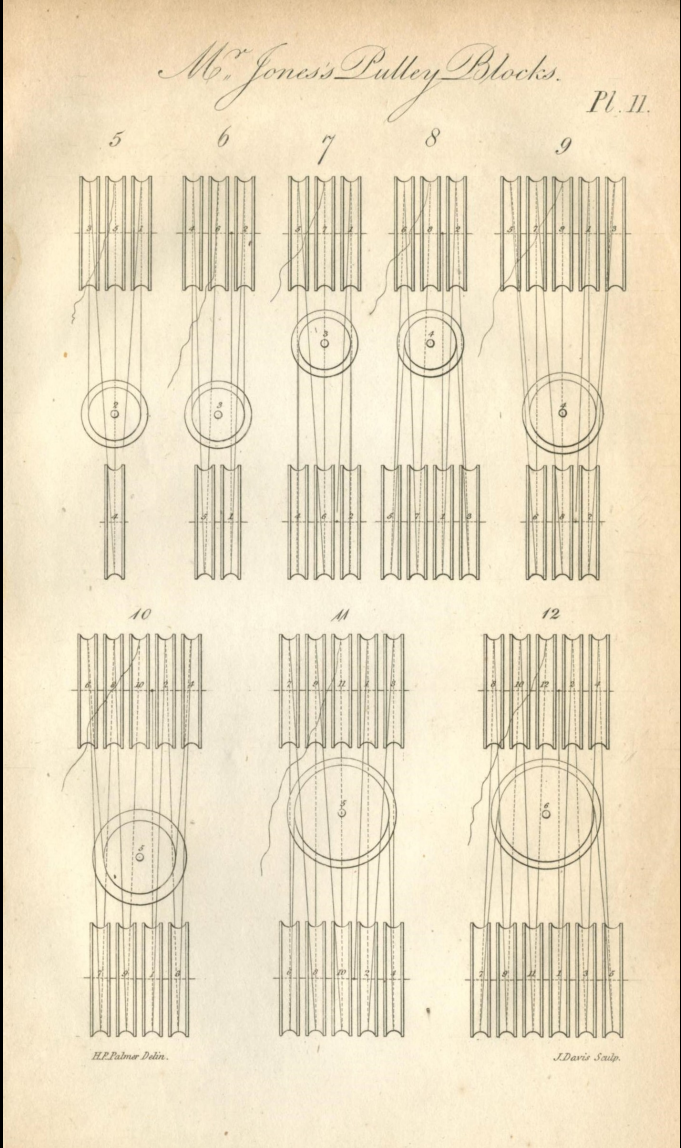
(p.53) “The superior effect of a drawing attentively treated in these respects, needs hardly be insisted on; such a delineation will be, as far as pictorial representation may be carried, a true picture of nature, and must be more effectually of use in assisting our judgment of the original [...].”

(p.54) “[...] is painted in nature [...].”

Mix of full and outlined drawings



Jones, Blocks, Transactions, vol. 36, 1818 (1)



Jones, Blocks, Transactions, vol. 36, 1818 (2)

Prices for the plates of Needham's machine

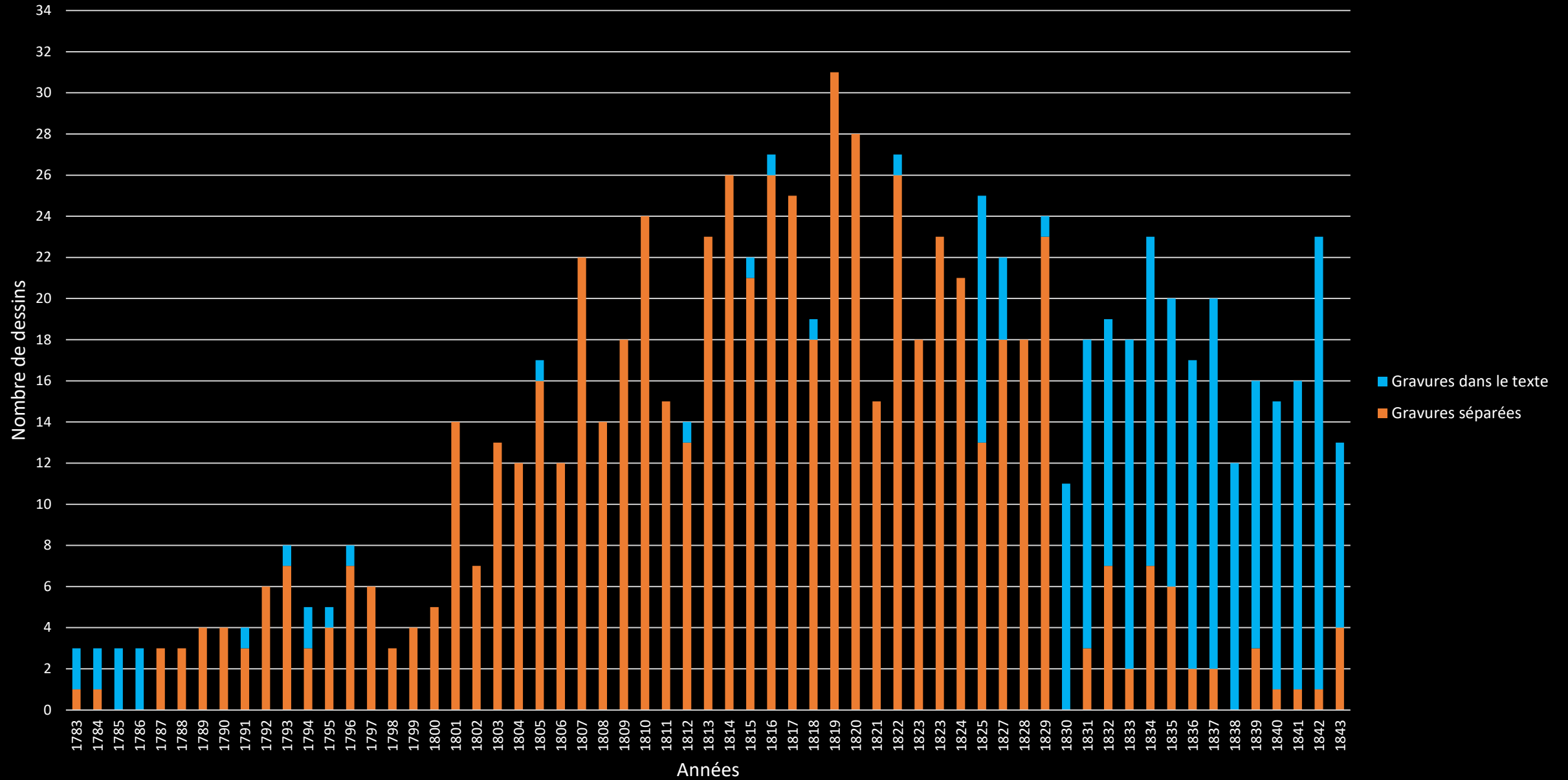
First plan	£ s d	Second plan (entirely in outline)	£ s d
Drawings 1 + 2 (Davis)	12,12,0	Draw 1+2 (Davis)	12,0,0
Draw 3 + 4 (Taylor)	80,0,0	Draw 3+4 (Taylor)	31,10,0
Draw 5 (outline) (Taylor)	4,4,0	Draw 6+7 (Armstrong)	8,8,0
Draw 6 + 7 (fully engraved) (Armstrong)	16,16,0	Draw 8+9+10+11+12 (Turrell)	18,18,18
Draw 8+9+10 (outline) / 11+12 fully eng (Turrell)	28,7,0	Reducing draw 3	2,2,2
Reducing draw 3 (Varley)	2,2,0		= 72,18,0
	= 144,1,0	Printing & paper	72,0,0
Printing & paper	72,0,0		= 144,18,0
	= 216,1,0		

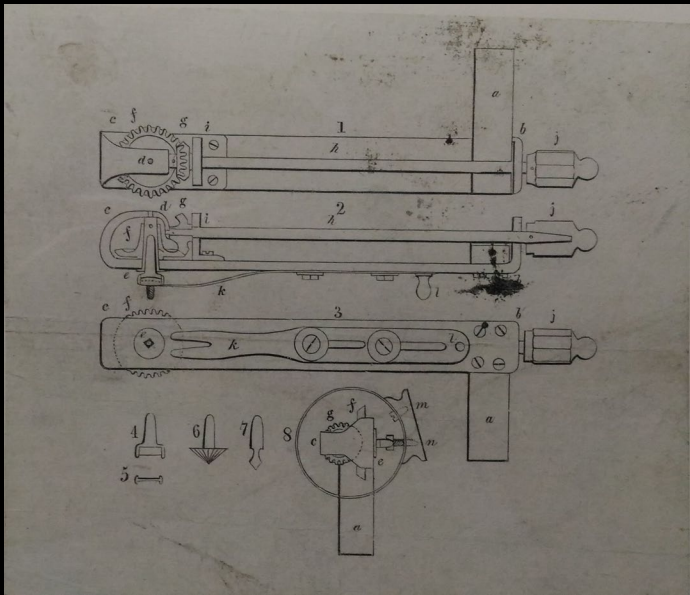
Cost of volume 44

Drawings (25)	£43,0,0
Wood engraving	£15,4,6
Copper plate engraving	£72,3,6
Copper plate printing	£59,12,6
Letter press printing	£98,16,0
Paper	£97,18,6
Boarding	£48,2,10
£434,17,4	

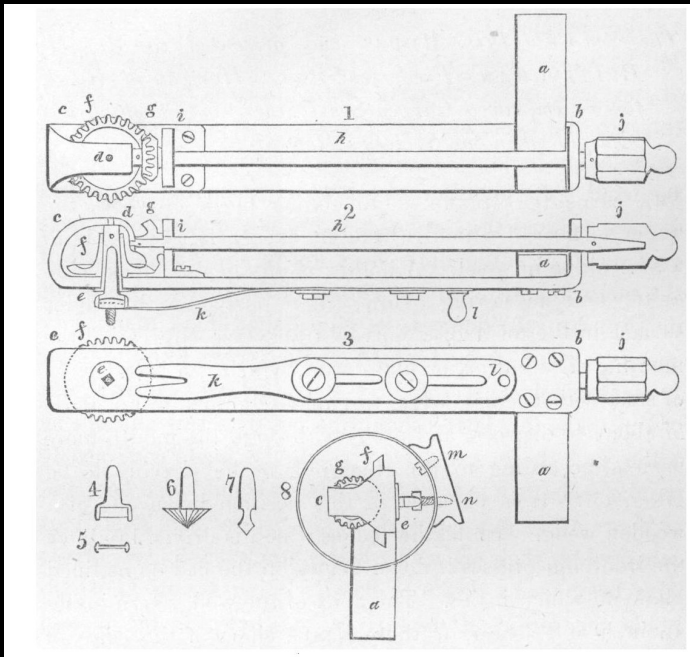
Volume	Nb images	Price
49-1 (1832-33)	19 (12 woods)	£183
50-1 (1833-34)	23 (16 w)	£238
51-2 (1837-1838)	19 (18 w)	£135

Distribution of copper engravings and wood engravings





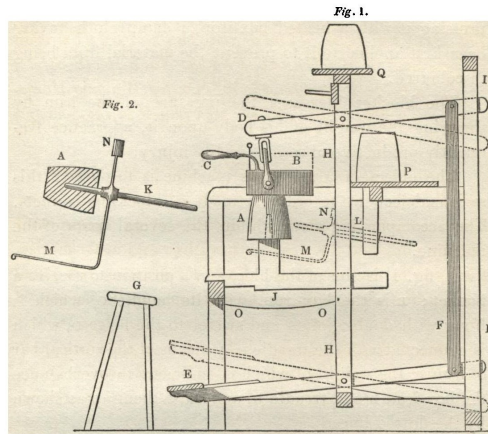
Solly, Screw-Driver, *Manuscript Transactions*, vol. 133, P1, 1835-6



Solly, Screw-Driver, *Transactions*, vol. 51-1, 1836-7

Examples of wood engravings: what about the complexity of the machines?

as seen in fig. 2. To the axis *k* is attached an arm *m*, which is moved by either hand of the blocker, so that the bonnet may be turned quite round under the iron: the



arm has a balance weight *n*. *o* is a net stretched across the whole space before the blocker, on which the bonnet may be laid. *p* and *q* are two shelves on which to place blocks of different sizes.

Price, Machine for blocking straw-bonnets, *Transactions*, vol. 54, 1841

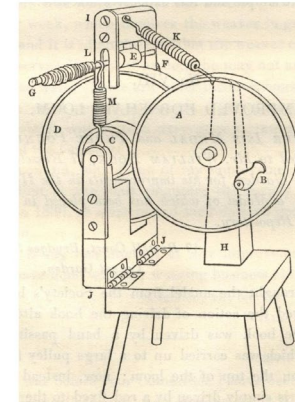
44 West Street, Devonshire Street,
Mile End, Old Town.
March 9, 1843.

SIR,
I AM now prepared to exhibit to the Committee of the Society of Arts, &c. my machine for winding quills.

I am, Sir, &c. &c.

To the Secretary of the Society of Arts. ALFRED JONES.

The wheels of the ordinary silk winding machine are usually driven by list-bands. Mr. Jones's improvement consists in substituting friction-wheels, the peripheries of

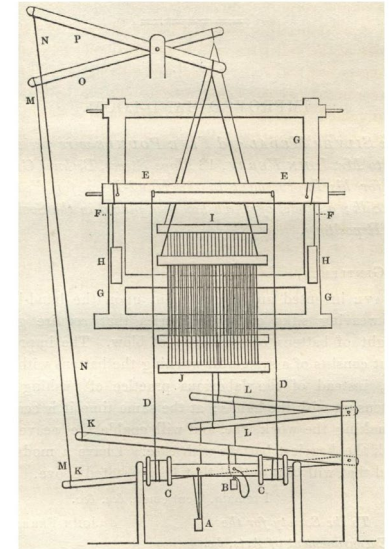


which are bound with leather; these wheels are three in number, A, C, D, the wheel A being the prime mover, to

Jones, Machine for winding silk, *Transactions*, vol. 54, 1841

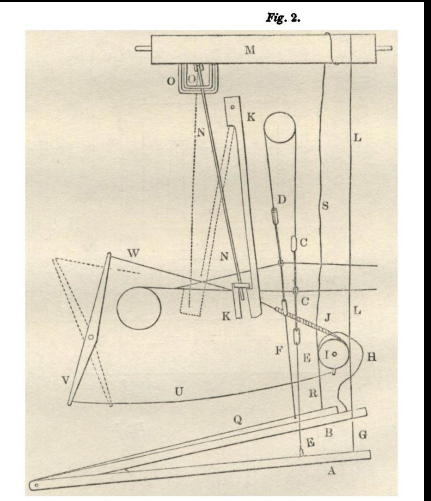
or working the battens from the hand to the feet of the weaver, whenever the work should be so heavy as to render it desirable.

This object is effected by introducing a roller *c* im-



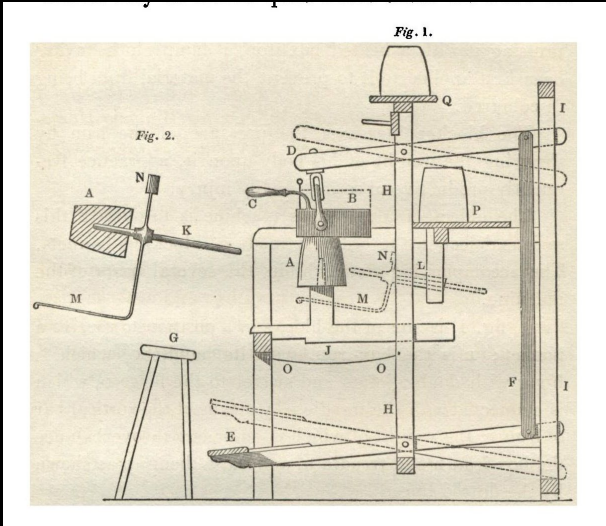
mediately over the ends of the treadles *a* and *b*. In the accompanying view of such parts of the machine as are

Ferry, Hand Loom, *Transactions*, vol. 54, 1841

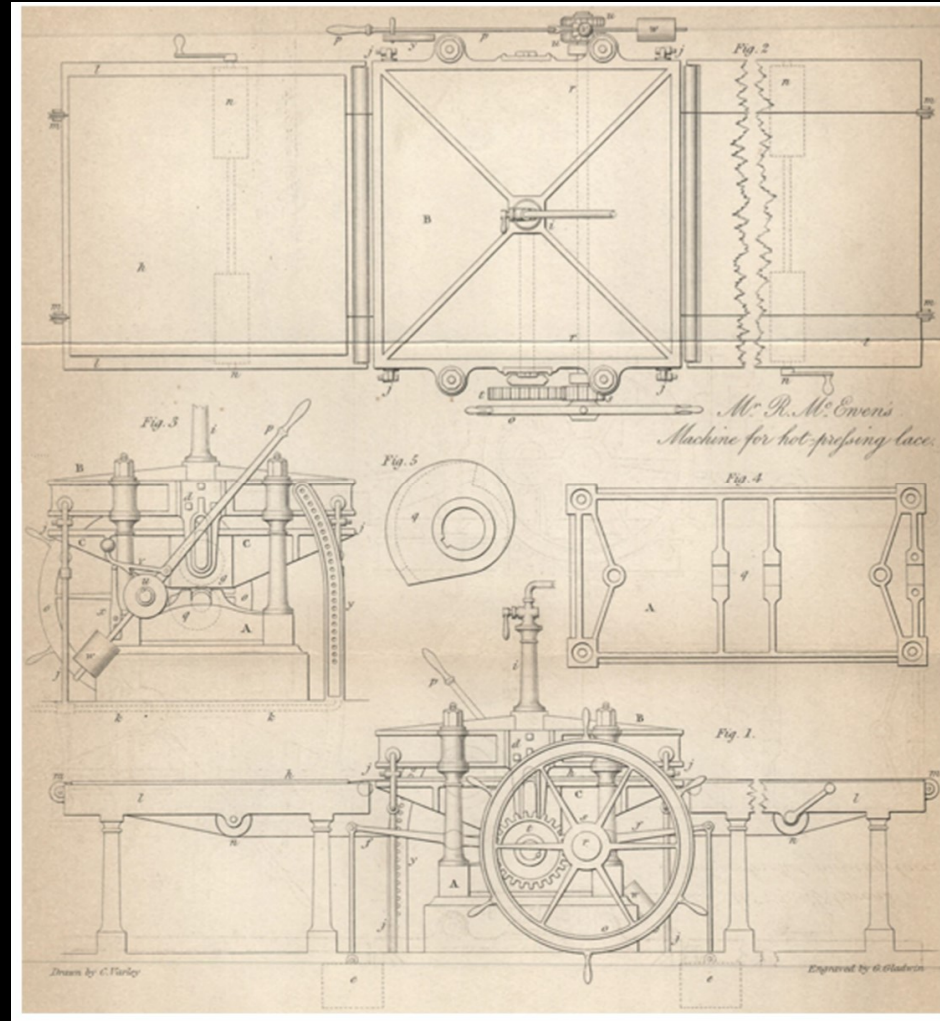


Rook, Hose-hair loom, *Transactions*, vol. 54, 1841

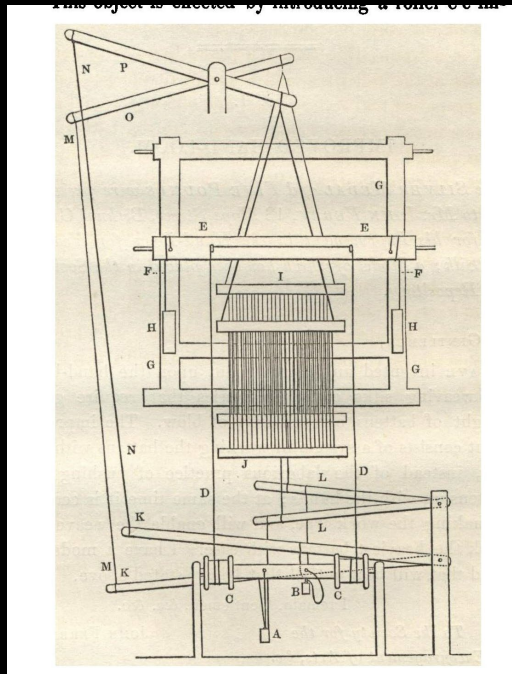
Volume 54, coexistence of copper and wood engravings



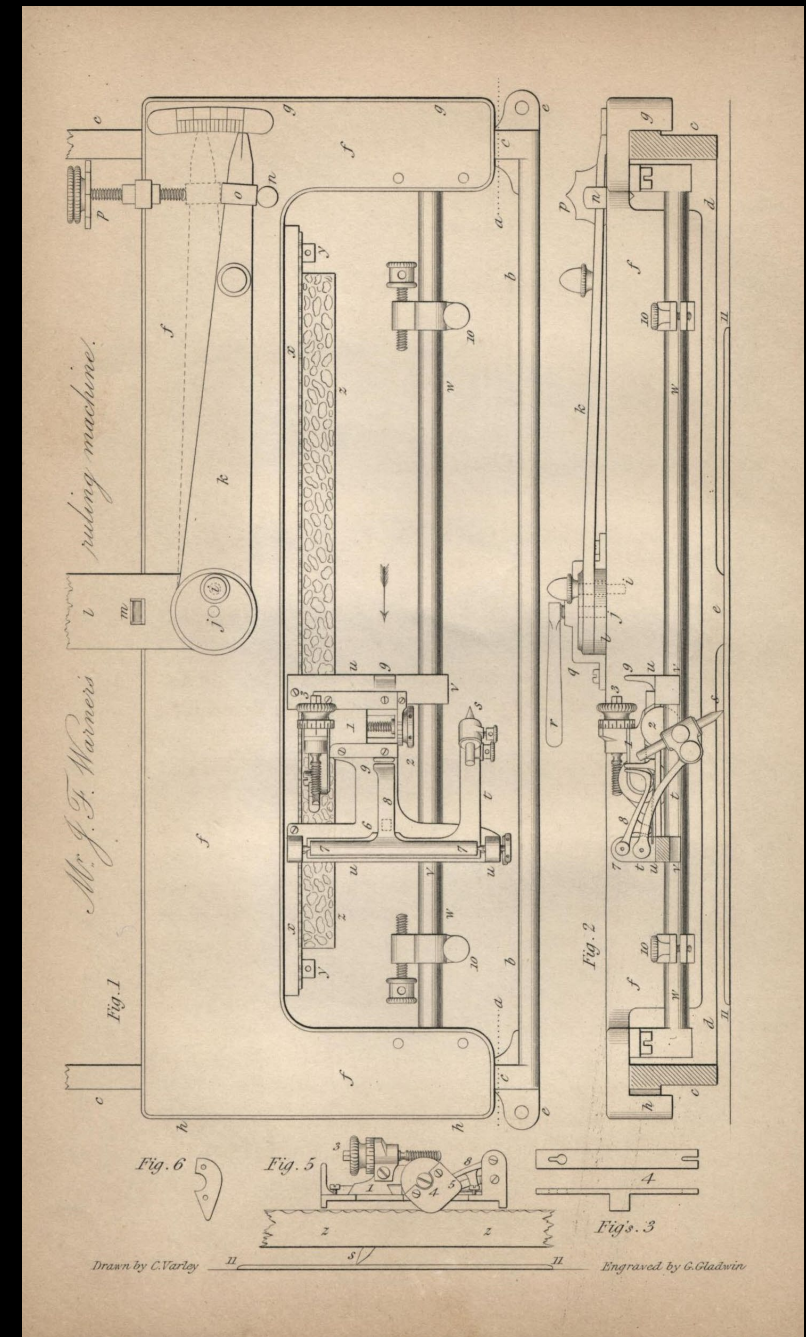
Price, Machine for blocking straw-bonnets, *Transactions*, vol. 54, 1841



McEwens, Machine for hot pressing lace, *Transactions*, vol. 54, 1841



Ferry, Hand Loom, *Transactions*, vol. 54, 1841

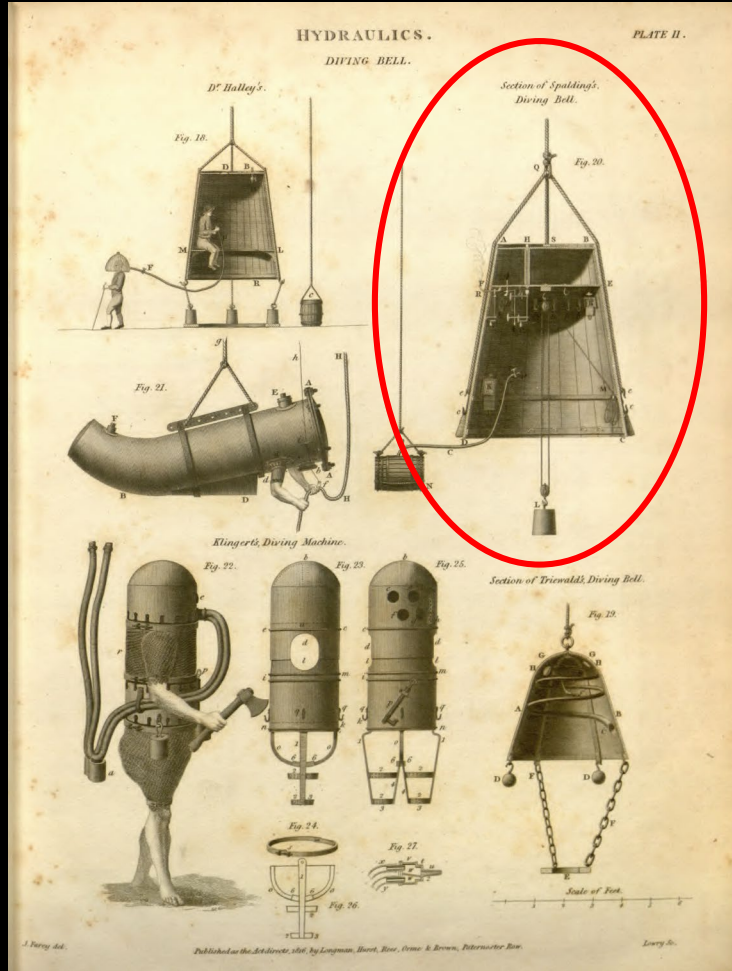


Warner, Ruling machine, *Transactions*, vol. 54, 1841

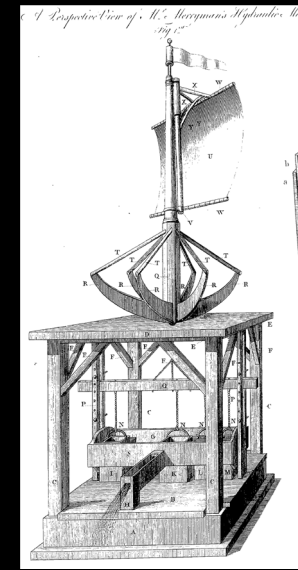
Circulation of plates in different media



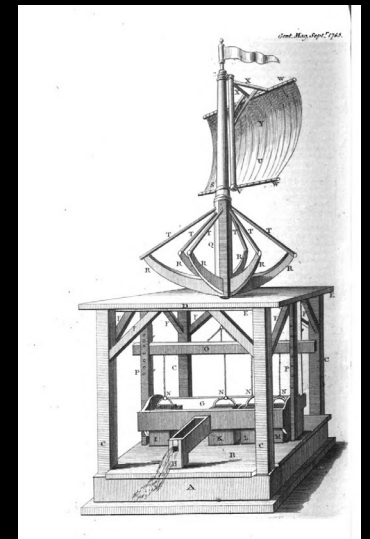
Spalding, Diving bell, *Transactions*, vol. 1, 1783



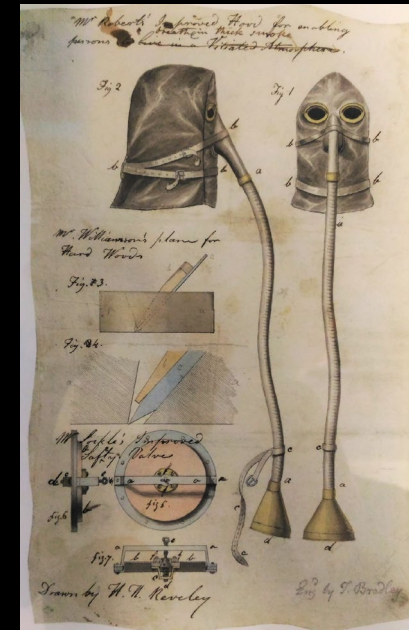
Abraham Ree's *Cyclopaedia*, vol. 3, 1820



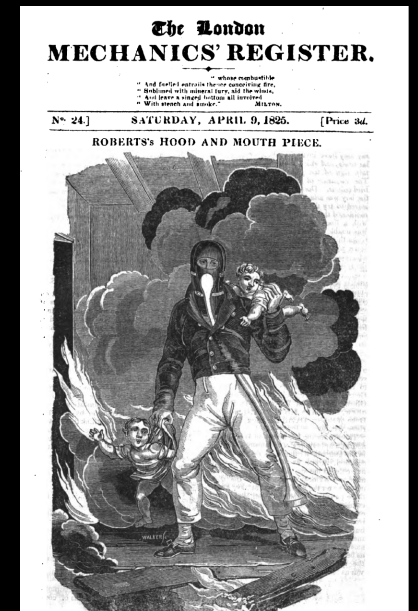
William BAILEY, *The Advancement of Arts, Manufactures*, 1772



The Gentleman's magazine, v. 55, 1785



Roberts, mask for fire, *Transactions*, vol. 43, 1824



The London Mechanics' Register, 09/04/1825, n°24