



A.D. 1798 N° 2217.

S P E C I F I C A T I O N

OF

WALTER TAYLOR.

MACHINE FOR RAISING WATER, AND
PREVENTING SMOKE IN CHIMNEYS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE QUEEN'S PRINTING OFFICE, EAST HARDING STREET,
NEAR FLEET STREET.

Price 6s.

1854.



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**Machine for Raising Water, and Preventing Smoke
in Chimneys.**

TAYLOR'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WALTER TAYLOR, of Portswood Green, in the County of Southampton, Esquire, send greeting.

WHEREAS His most Excellent Majesty King George the Third, did, by
5 His Letters Patent, under the Great Seal of Great Britain, bearing date at
Westminster, the Twenty-eighth day of February, in the thirty-eighth year of
His reign, give and grant unto me, the said Walter Taylor, His especial
licence, that I, the said Walter Taylor, during the term of years therein men-
tioned, should and lawfully might use, exercise, and vend, within England,
10 Wales, and the Town of Berwick upon Tweed, my Invention of "A CON-
SIDERABLE IMPROVEMENT IN THE CONSTRUCTION OF MACHINES FOR RAISING WATER IN
AND FOR CLEARING SHIPS OF THE SAME; ALSO TO TAKE OFF THE PRESSURE OF THE
ATMOSPHERE OR EDDY WINDS FROM THE TOPS OF CHIMNIES, TO PREVENT WHAT ARE
CALLED SMOAKEY CHIMNIES;" in which said Letters Patent there is contained
15 a proviso, obliging me, the said Walter Taylor, by an instrument in writing
under my hand and seal, to cause a particular description of the nature of my
said Invention, and in what manner the same is to be performed, to be
inrolled in His Majesty's High Court of Chancery within one calendar month
after the date of the said recited Letters Patent, as in and by the same,
20 relation being thereunto had, may more fully and at large appear.

Taylor's Impts. in the Construction of Machines for Raising Water, &c.

NOW KNOW YE, that in compliance with the said proviso, I, the said Walter Taylor, do hereby declare that my said Invention is described in manner following, (that is to say):—

First:—A description of improved machines for raising water in general, and particularly in ships; machines for raising water, consisting of tubes or 5 trunks or buckets; the tubes, trunks, or buckets may be made of wood or metal, or both; I prefer the outer trunk being made of plank, as being most convenient and most easily made and repaired, especially in cases of accident on board of ship, the tube or trunk to have an inside tube or trunk or bucket, to be made to pass freely up and down within the outer tube or trunk. In 10 the bottom of the said inner tube, trunk, or bucket, a valve or valves to be placed, in order that when it is lowered or let down within the outer tube or trunk, the water may pass freely into the same, and that when the said inner tube, trunk, or bucket is drawn up, the valve or valves may be shut by the water till it is brought to the upper part of the outer tube or trunk to be 15 delivered; a roller or rollers turned with or without a winch, or a pulley or pulleys, or both, to be placed in or over the said tube or trunk, or in such a situation as for a rope or chain to pass over, fastened to the said inner tube, trunk or bucket, so as to be drawn up in either a parallel, perpendicular, or any other direction, which may be simply worked by men or any other power; two or more 20 of these tubes or trunks being placed near or convenient to each other act in conjunction mutually to assist each other; thus that while one inner tube, trunk, or bucket is raising in order to deliver the water, another is descending in order to fill itself, that the weight of one descending may help to raise another ascending, and so alternately, so as to make a constant stream. The aforesaid inner tubes, trunks 25 or buckets are assisted in their operation by having leather or any other spongy or other substance fastened upon or about the same, so as to press close to the inner parts of the outer tube or trunk, in order to make a vacuum as it descends, which vacuum will be naturally supplied with water. Be it observed that these tubes, trunks, or buckets, may be worked singly or in conjunction 30 with others, as before mentioned. Be it further observed, that a valve or valves be placed at the bottom of the outer tubes or trunks, as to keep it or them as full of water as possible, and that all the valves may be made with metal joints.

Secondly:—Description of the machine for taking off the effects of the 35 pressure of the atmosphere or of eddy winds from the tops of chimnies, so as to prevent what are commonly called smoakey chimnies. First, the materials:—It may be made of iron, or copper, or lead, or tin, or of any other metal, or of clay or any other earthy substance, dried, baked, or burnt;

Taylor's Impts. in the Construction of Machines for Raising Water, &c.

secondly, the shape or construction may be either round, or square, or oval, or octagon, or of any form, and ornamented at the top according to fancy, provided it has a free passage through the centre and sides thereof for the smoak. It is composed of various rows of rims or plates separated from each
 5 other all about at proper distances in a sloping, level, or any other direction, kept open all around, so as to give room for the smoke to discharge itself either through openings at the centre or at the sides, and so at the same time as to prevent any undue pressure of the atmosphere or the eddy winds from getting down the flue of the chimney. The before-mentioned machine, for the convenience
 10 of casting or otherwise making them as well as for fixing on the top of the chimney, may be made in parts to fix in or upon each other, and the ornamental parts or top may be fixed on the rest in the same manner as the other parts, so as to make the machine complete.

In witness whereof, I, the said Walter Taylor, have hereunto set my
 15 hand and seal, this Sixteenth day of March, in the year of our Lord
 One thousand seven hundred and ninety-eight.

WALT^R TAYLOR (L.S.)

AND BE IT REMEMBERED, that on the Sixteenth day of March, in the Thirty-eighth year of the reign of His Majesty King George the Third, the
 20 said Walter Taylor came before our said Lord the King in His Chancery, and acknowledged the instrument aforesaid, and all and every thing therein contained and specified, in form above written. And also the instrument aforesaid was stamped according to the tenor of the several Statutes made in the sixth year of the reign of the late King and Queen, William and Mary
 25 of England, and so forth, and in the seventeenth, twenty-third, and thirty-seventh years of the reign of His present Majesty King George the Third.

Inrolled the Sixteenth day of March, in the year last above written.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
 Printers to the Queen's most Excellent Majesty. 1854.

