

Specification of George Taylor : machinery for sweeping chimneys, funnels, &c.;

Contributors

Taylor, George.

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A.D. 1847 N° 11,961.

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

OF

GEORGE TAYLOR.

MACHINERY FOR SWEEPING CHIMNEYS,
FUNNELS &c.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

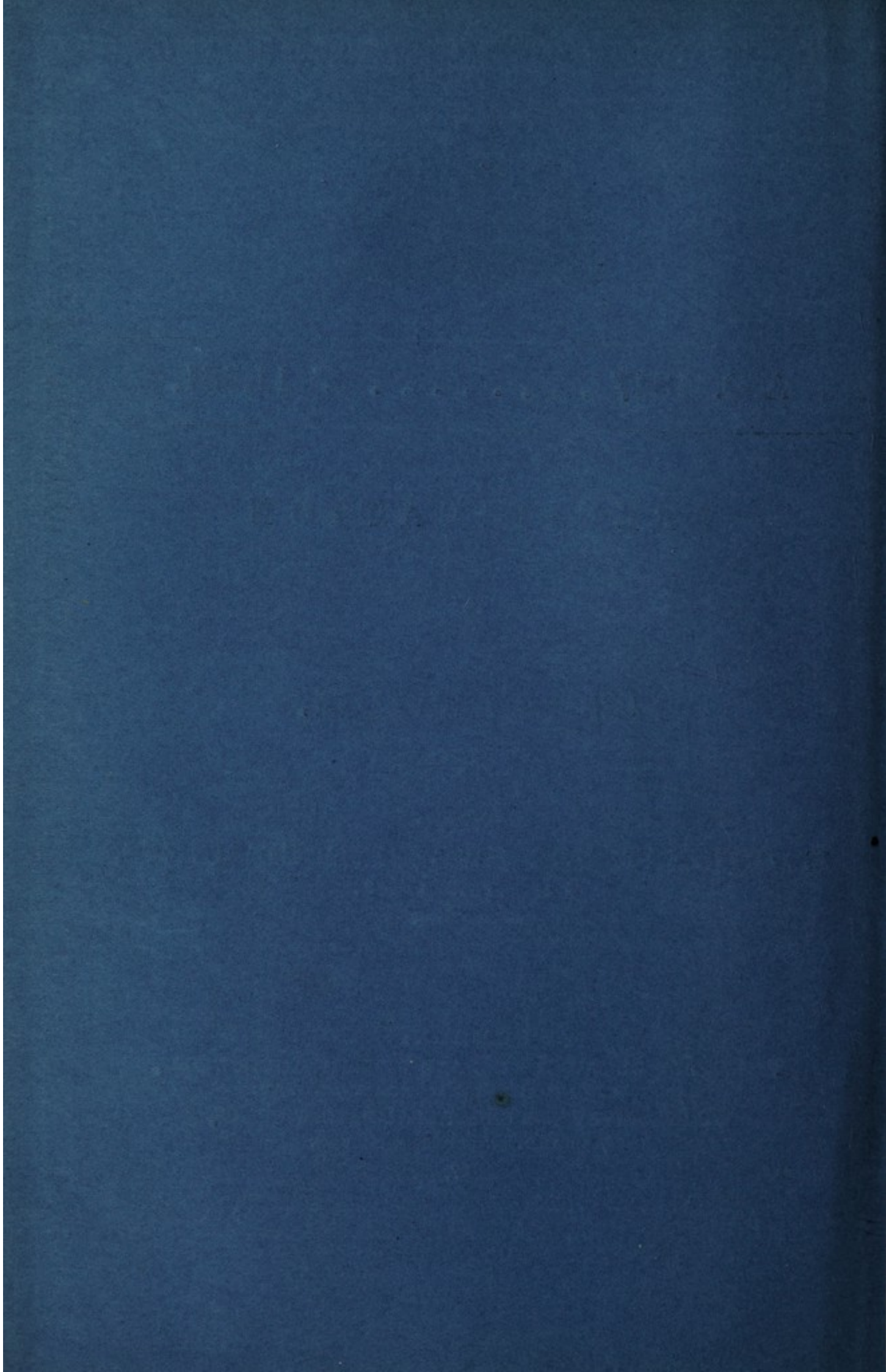
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1857.





A.D. 1847 N^o 11,961.

Machinery for Sweeping Chimneys, Funnels, &c.

TAYLOR'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, GEORGE TAYLOR, of No. 2, Bartholomew Place, Kentish Town, Gentleman, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by Her
5 Royal Letters Patent under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Thirteenth day of November, One thousand eight hundred and forty-seven, in the eleventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said George Taylor, my exors, admors, and
10 assigns, Her especial licence, full power, sole privilege and authority, that I, the said George Taylor, my exors, admors, and assigns, and such others as I, the said George Taylor, my exors, admors, or assigns, should at any time agree with, and no others, from time to time and at all times during the
term of years therein expressed, should and lawfully might make, use, exer-
15 cise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "**CERTAIN IMPROVEMENTS IN MACHINERY OR APPARATUS FOR SWEEPING AND CLEANSING CHIMNEYS, FUNNELS, FLUES, DRAINS, AND OTHER PLACES;**" in which said Letters Patent is contained a proviso, that I, the said George Taylor, should cause a particular description of the nature of my said In-
20 vention, and in what manner the same is to be performed, by an instrument

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in writing under my hand and seal, to be inrolled in Her said Majesty's High Court of Chancery within six calendar months next and immediately after the date of the said in part recited Letters Patent, as in and by the same, reference being thereunto had, will more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said 5 George Taylor, do hereby declare that the nature of my said Invention, and the manner in which the same is to be performed, are fully described and ascertained in and by the following statement thereof, reference being had to the Drawings hereunto annexed, and to the figures and letters marked thereon, that is to say :—

10

DESCRIPTION OF THE DRAWINGS.

Figure 1 shews a plan of brush apparatus or machinery combined and constructed according to my Invention. Figure 2 is a vertical section of the same; and Figures 3 and 4 shew some of the parts separately. *a, a*, shews the upper part or head of brush machinery, *b, b*, being four brushes fixed on 15 inflexible arms *c, c*. On these arms are fixed or formed portions of spheres *d, d*, which turn in spherical sockets *e, e*; hence the arms can be moved up and down freely, there being slits or slots formed in the spherical sockets through which the inflexible arms *c, c*, pass. *f, f*, are forked springs fixed within the head of the machine, and their other ends come against the plain surface of the 20 arms *c*, by which those arms are at all times pressed with a tendency to assume the horizontal position, and yet the springs allow of the arms departing from such horizontal position, simply offering elastic resistance to their moving out of the horizontal position; hence, although the arms *c, c*, are inflexible, they move up and down elastically by the springs. *g* is the rod to which the 25 head *a, a*, is fixed. I would state that the springs may be varied, and the construction of the spherical parts of the arms *c, c*, may also be varied, and such is the case in respect to the socket. Figures 5, 6, 7, 8, 9, and 10, shew variations in the construction of these parts, the springs *f, f*, not being forked as in the previous figures, but simply press by a flat surface *f*¹ fixed at the end of the 30 springs *f*, and the end of the arms *c* are differently formed, but they in substance act as before described. In Figures 5, 6, 7, 8, the slits or openings of the sockets simply allow of a movement up and down to the arms *c, c*; but in Figures 9 and 10 there being cross cuts or openings in the sockets, the arms can move laterally, as well as up and down, or the cuts in the sockets may be made 35 diagonally, but in each case the springs tend at all times to keep the arms

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horizontal and radial. The peculiarity of this part of my Invention consists in the use of the portions of spheres at the ends of the arms carrying the brushes together with springs, which are so arranged as to offer an elastic resistance to the arms moving from a determined or radial position. Figure 5 11 shews a section, and Figure 12 a front view of another arrangement, wherein the arm *c*, in place of having a portion of a sphere, has a cylinder, or it might be portions of cones in suitable sockets as shewn, in place of the spherical ends before described. In this arrangement a flat or plain portion is formed to receive the pressure of a spring *f*, by which arrangement the arm 10 is retained in a horizontal and radial position, and yet by the elasticity of the spring *f* it may depart therefrom and will return thereto when free to do so. Figure 11^{*} shows a section, and Figure 12^{*} front and back views of a similar arrangement to the one just described, the only difference being that the cylindrical portion *c*^{*} is placed on the outside of the plate or tube, and it has a 15 projecting portion *f*^{*} suitably formed to be acted upon by the spring *f*. Figure 13 shews a vertical section of part of another apparatus, and Figure 14, a front view thereof. In this case the spring *f* presses against a lever plate *f*¹, with a tendency to force it outwards. *c* is an arm for carrying a brush which is attached by an axis *c*¹ to the bearings *a*¹ of the apparatus *a*, and there are 20 friction rollers *c*² at the end of the arm *c*, against which the plate *f*¹ presses; by which means the tendency is to retain the arm horizontal and radial, but by the elasticity of the spring the arm *c* may move up and down as in the former cases. In Figures 1 and 2 the apparatus is arranged for four arms *c*, but this may be varied whether the arms are arranged and acted on by the means 25 shewn and described in respect to Figures 1, 2, 3, and 4, or Figures 5, 6, 7, 8, 9, 10, 11, 11^{*}, 12, 12^{*}, 13, and 14, the latter Figures only shewn in each case the arrangement suitable for one inflexible arm *c*. Another part of the Invention consists of the mode of mounting the spherical roller *h* at the top of the apparatus, as shewn in Figure 1, which consists in applying an elastic 30 surface of cork *i*, or it may be india-rubber, prepared or otherwise, so as to give play and elasticity to the stem *j*, as shewn.

Having thus described the nature of my Invention, and the manner in which the same is to be performed, I would have it understood that I do not confine myself to the details shewn so long as the peculiar character of 35 either part of my Invention be retained; but what I claim is, first, the mounting brushes on inflexible arms *c*, having portions of spheres thereto combined with the use of the springs, as described in respect to Figures 1 to 10 inclusive.

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Secondly, I claim the mounting brushes on inflexible arms *c*, having cylindrical or conical ends combined with the use of springs, as described in respect to Figures 11 and 12, and Figures 11* and 12*.

Thirdly, I claim the mode of arranging arms *c* with springs *f* and plates *f*¹, as described in respect to Figures 13 and 14. 5

And, fourthly, I claim the mode of mounting the spherical roller *h*, as described.

In witness whereof, I, the said George Taylor, have hereunto set my hand and seal, this Twelfth day of May, in the year of our Lord One thousand eight hundred and forty-eight. 10

GEORGE (L.S.) TAYLOR.

JEFFERSON. AND BE IT REMEMBERED, that on the Twelfth day of May, in the year of our Lord 1848, the aforesaid George Taylor came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose. 15

Enrolled the Thirteenth day of May, in the year of our Lord One thousand eight hundred and forty-eight.

LONDON:

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Printers to the Queen's most Excellent Majesty. 1857.

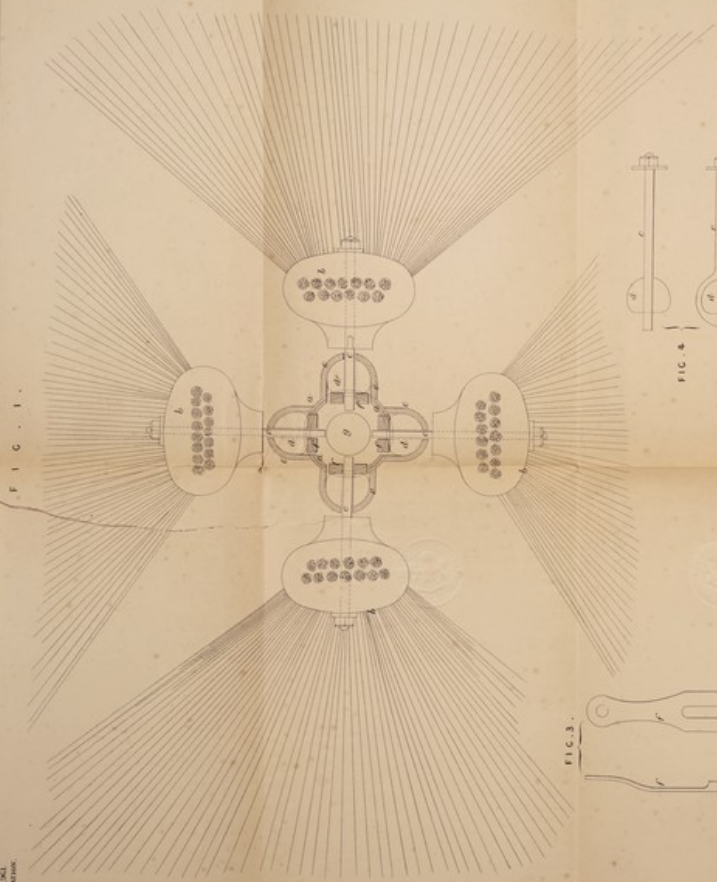


FIG. 4.



FIG. 3.

FIG. 2.

