

G. H. BOURNE.
FLOOR POLISHER OR THE LIKE.
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1,045,368.

Patented Nov. 26, 1912.

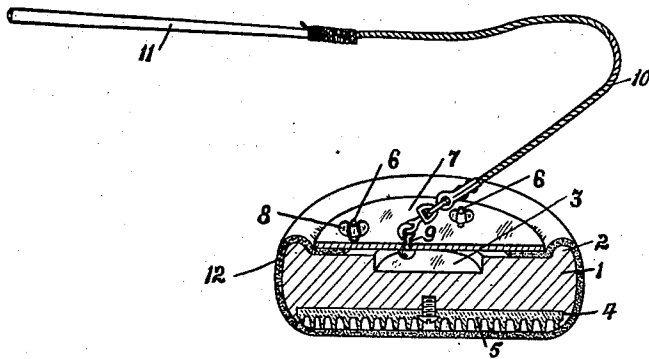


Fig. 1.

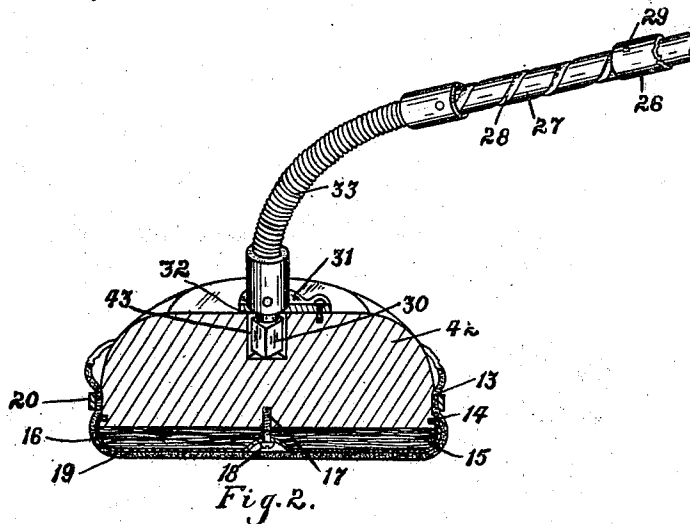


Fig. 2.

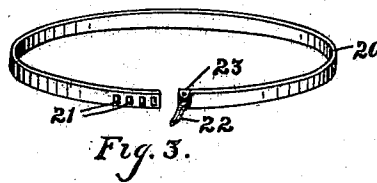


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE HARRY BOURNE, OF TORONTO, ONTARIO, CANADA.

FLOOR-POLISHER OR THE LIKE.

1,045,368.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed March 30, 1911. Serial No. 618,018.

To all whom it may concern:

Be it known that I, GEORGE HARRY BOURNE, a subject of the King of Great Britain, and resident of 84 Bismarck avenue, city of Toronto, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Floor-Polishers or the Like, of which the following is a specification.

10 The invention relates to improvements in floor polishers or the like, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

15 The invention consists essentially of the novel arrangement and construction of parts, whereby a weight having a textile polishing cover secured thereover and a flexible handle connected thereto is pulled over the surface it is desired to polish, in sweeps.

The objects of the invention are to provide a floor polisher which will be inexpensive to construct, and which will efficiently polish a floor with a minimum amount of labor.

In the drawings, Figure 1 is a sectional perspective view of the invention. Fig. 2 is a sectional perspective view of a modified form of the invention. Fig. 3 is a perspective view of the band for securing the textile material in position on the modified form, as shown in Fig. 2.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is a weight or form made of cast iron or other suitable material, preferably circular in form, and having the circumferential shoulder 2 and the recess 3 formed on the upper side thereof, and the recess 4 in the under side thereof.

5 is a sheet of resilient material preferably rubber, having short teats, said sheet of resilient material being glued into the recess 4 on the under side of the weight 1.

6 are threaded studs projecting upwardly from the top of the weight inside the shoulder 2.

7 is a circular plate fitting the top of the weight 1 inside the shoulder 2, and having orifices therethrough through which the stud pins 6 extend.

8 are butterfly nuts screwing onto the upper ends of the stud pins 6, and securely fastening the plate 7 to the weight 1.

9 is a swivel link connection secured eccentrically to the plate 7, the recess 3 accommodating the swivel where it extends through said plate 7 to be secured thereto.

10 is a rope or other flexible connection having one end thereof connected to the swivel link 9.

11 is a handle secured to the other end of the rope 10.

12 is a piece of textile material completely enveloping the under side of the weight 1 and the flexible sheet of material 5, and having the edge thereof brought under the plate 7, and securely clamped to the weight thereby.

When using the invention the operator grasps the handle 11 and pulls the polisher over the floor or other surface in sweeps through the medium of the rope 10. The bodily onward motion of the polisher carries it beyond the operator, and thus it is pulled from one side to the other, the eccentric connection of the handle always having a tendency to rotate the polisher. The teats extending from the sheet of rubber 5 press the textile material evenly over any uneven surface which may occur in the floor, so that a uniform and excellent polish is secured.

In the modified form of the invention illustrated in Fig. 2 of the drawings, 42 is a metal casting circular in form with a flat bottom and a slightly rounded top. 43 is a square socket hole in the top of the metal casting 42 for the purpose hereinafter described. 13 and 14 are annular grooves around the circular face of the metal casting 42. 15 is a padding secured to the bottom of the metal casting by a covering 16, which is secured around the weight by a wire or cord tied around the groove 14. 17 is a threaded orifice in the bottom of the metal casting. 18 is a screw inserted through the covering 16 in the center thereof and into the orifice 17 in the metal casting, whereby the padding 15 is retained securely in place. 19 is an outer polishing cover of textile material gathered around the casting 12. 20 is a band which secures the outer polishing cover 19 to the casting 12 by pressing the said cover into the groove 13 and retaining it there. The band 20 has the orifices 21 through one end thereof. 22 is a clip finger hinged to the other end of the band 20 between the lugs 23, which extend outwardly from said band. When the band 20 is

placed around the outer polishing cover 19 and the casting 12, and the finger 22 is passed through one of the orifices, and then turned back against the band it presses the cover 19 into the groove 13 and securely locks it in that position. 26 is the handle having a spindle 27 fitting therein at one end thereof. 28 is a spiral groove extending throughout the length of the periphery of the spindle. 29 is a pin inserted through one side of the outer handle 26 and into the spiral groove 28 of the spindle 27, whereby any movement of the outer handle over the inner spindle 27 causes the said spindle to rotate. 30 is a bolt having a square head which fits into the square socket hole 43 of the metal casting 42, the reduced end of the bolt projecting upwardly out of the aforesaid socket hole. 31 is a plate secured to the top of the metal casting 42 over the socket hole 43, and has an orifice 32 therethrough which is just large enough to permit the reduced end of the bolt 30 to pass through. 33 is a flexible shaft connection which is secured to the spindle 27 and the reduced end of the bolt 30, whereby the casting 42 with the polishing cover 19 is rotated by the handle as it is moved back and forth.

In this form of the invention a rotary motion is given the polisher in addition to

the sweeping movement, and the surface of the floor more quickly polished.

What I claim as my invention is:

1. A floor polisher comprising a weight, a textile fabric covering the under side of said weight, a handle and a flexible connection secured to said handle and swivelly secured to said weight.

2. A floor polisher comprising a weight having a resilient under side, a textile fabric covering the under side of said weight, a handle and a flexible connection secured to said handle and swivelly and eccentrically secured to said weight.

3. A floor polisher comprising a weight, resilient material secured to the under side of said weight, a textile polishing material covering the under side of said weight and said resilient material, means for securing the said textile material to said weight, a handle and a flexible connection between said handle and said weight.

Signed at the city of Toronto, in the Province of Ontario, in the Dominion of Canada, this 16th day of March 1911.

GEORGE HARRY BOURNE.

In the presence of—

E. J. COTE,

GEO. BLACKMORE.