W. Price,

Washing Machine,

No. 44,820. Patented Oct. 25, 1864.

Fig: 1.

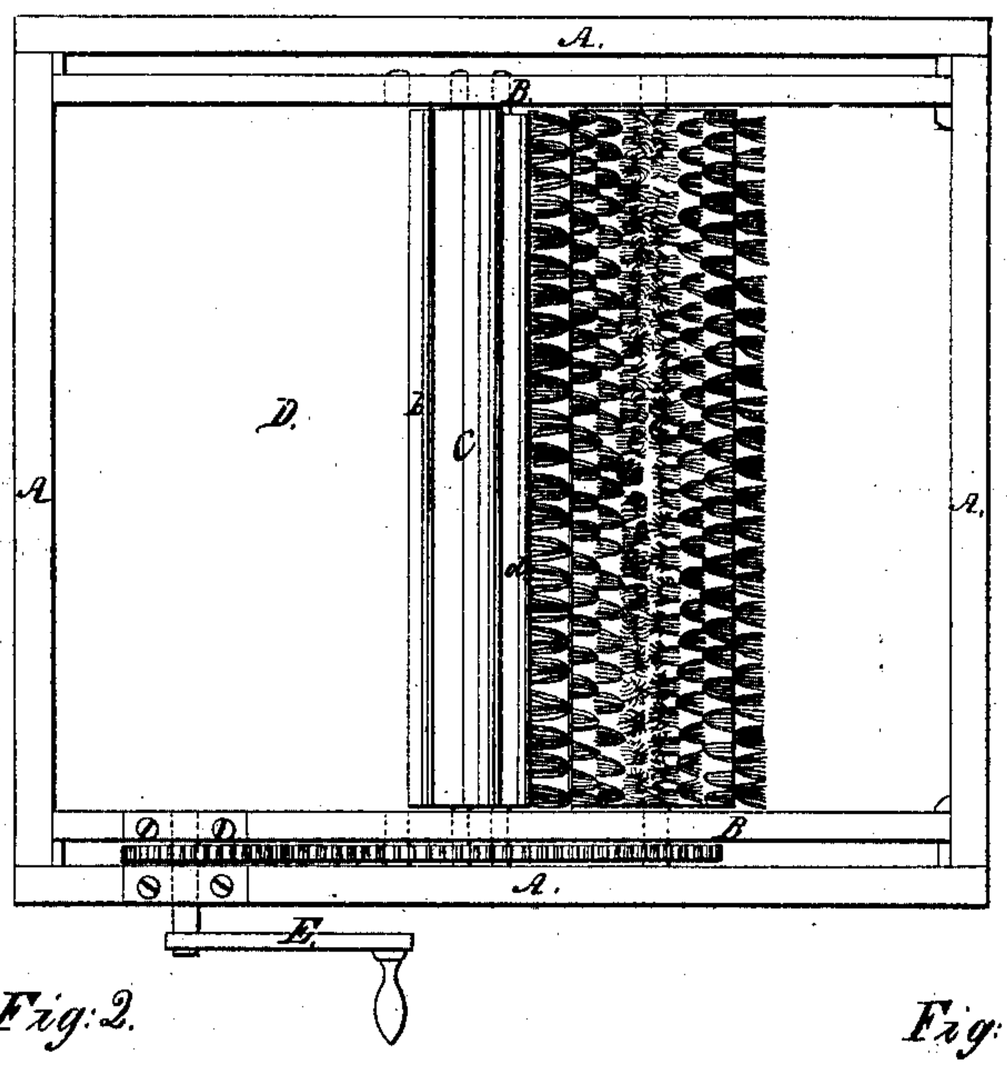
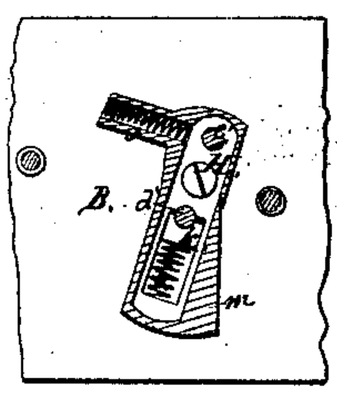
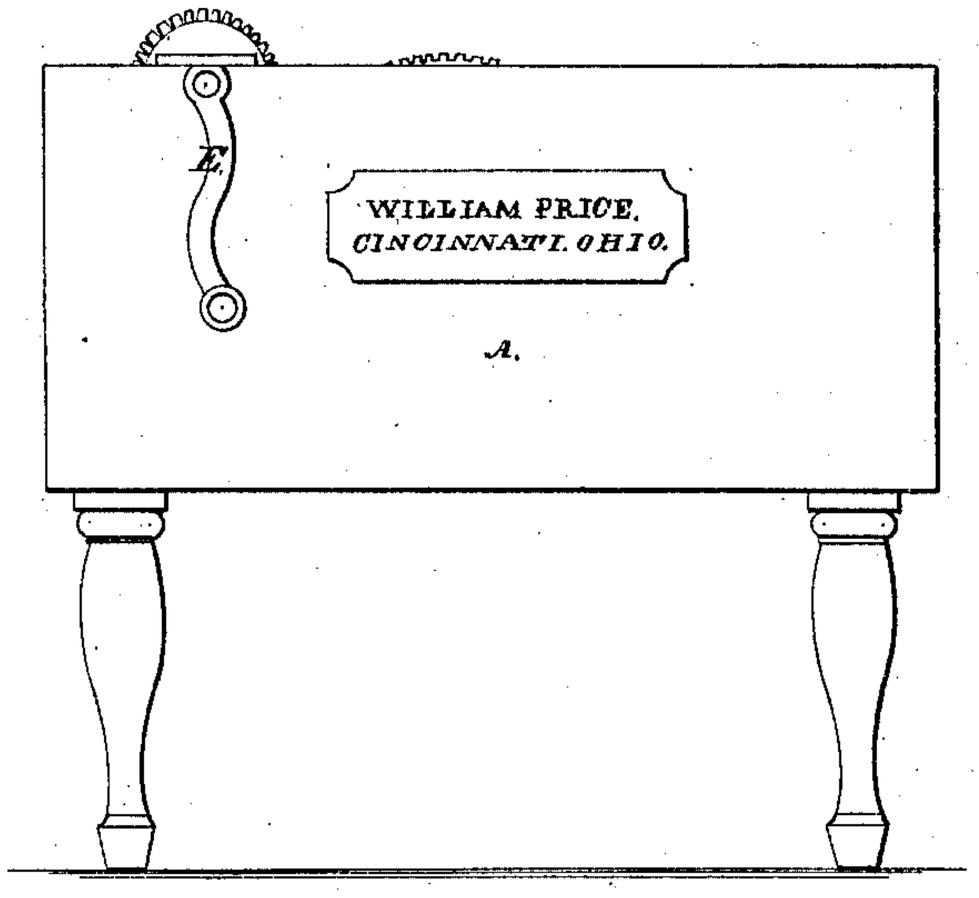


Fig: 2.

Fig: 3

Fig: 5.





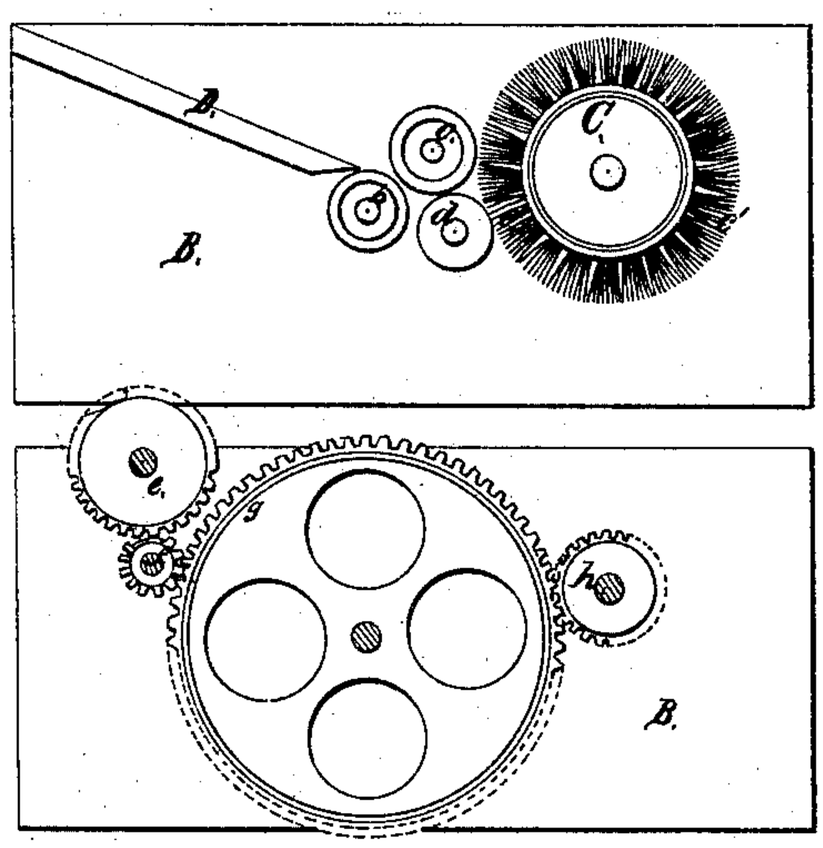


Fig: 4.

Witnesses:
Edw. F. Brown
J. B. Wiarff.

Inventor:
William Price

UNITED STATES PATENT OFFICE.

WILLIAM PRICE, OF CINCINNATI, OHIO.

IMPROVED WASHING AND SCOURING MACHINE.

Specification forming part of Letters Patent No. **44,820**, dated October 25, 1864.

To all whom it may concern:

Be it known that I, WILLIAM PRICE, of the city of Cincinnati, in the county of Hamilton, in the State of Ohio, have invented certain new and useful improvements in the construction and arrangement of mechanism for the purpose of scouring and cleansing clothes, woolen goods, and all other textile fabrics; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a plan or top view. Fig. 2 is a side view of the machine. Fig. 3 represents a section cut through, showing the position of the rotating brush with the feeding-rollers. Fig. 4 shows an end view of the box or inner frame with the arrangement of gear-wheels for giving the relative motion to the rotating brush and compression feed-rollers in operating. Fig 5 shows a broken-off section of the frame with the compound journal box, to allow the rollers to yield to the thickness of the material being cleansed.

The object of my invention is to supply the long sought for implement that will effectually cleanse woolen goods and other articles of clothing without tearing the garments, breaking or wearing off the seams and hems, or removing the buttons, &c.

My invention consists in the arrangement and combination of pressure feeding-rollers, and a higher speed revolving brush, acting against the material as it slowly passes over a compensating-roller; also, in the peculiar construction of the double yielding compensating journal-boxes, as applied for the purposes hereinafter described.

To enable others skilled in the art to make and use my invention, I will describe its construction and its operation more fully, referring to the accompanying drawings and to the letters of reference marked thereon.

I make a box or vat, A, of wood it may be square or oblong, of any desired depth and dimensions, the same being set up and mounted on legs *a a*, so as to be of a convenient height to operate easily. In the vat A on each side is placed longitudinally with the sides additional sides B B, which form the frame or support for the journal-boxes of the revolving brush C and the compensating journal-boxes for the pressure-rollers *c* and *d*, as also the driving-roller *b*. The two sides B B are connected together by an inclined leaf or table D, made of hard wood, upon which the article to be scoured and cleansed is placed, so as to be fed in between the rollers *b* and *c*, when it passes over the hand-roller *d*, where it comes in contact with the brush *c' c''*, which is made to revolve at a much higher rate of speed than the article is carried in by the rollers, so that while the portion of the garment or fabric is resting on or passing slowly over the hard roller *d* the brush is operating briskly on its surface, and comparatively a small portion of the article is presented at the time, so that the dirt or any extraneous matter is easily removed, and the yielding nature of bristles, of which brushes are usually made, operate over seams and buttons without damage to the one or removing the other.

The machine is put in motion and easily operated by the crank E. The brush C and rollers *b c* may be driven by spur gear-wheels, *e*, *f*, *g*, and *h*, as seen in Fig. 4, or they may have the same motion and speed imparted to their distinctive parts and perform the same functions by a single band passing over and around grooved pulleys, in the place of the gear-wheels.

For the purpose of allowing the various thicknesses of the articles to be cleansed to pass in between the rollers and present a uniform resistance to the action of the revolving brush, I make a compensating double-acting spring journal-box, H, as seen in Fig. 5, the journal of the roller *c'* being fixed, and the journal of the roller *d'*, being supported by a movable box, *k*, and held up to bear by the spiral spring *i*, the whole being pivoted to the frame B B in recesses *m* on the outside, where it yields to the pressure against the spiral springs *i*, and thus act uniformly on various thicknesses.

The entire working mechanism is made so as to be taken out by lifting the frame B B, (there being grooves for the ends to slide into,) so that all of the parts can be raised off and dried, and the machine kept in perfect order.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement and combination of the presser feeding-rollers, and a high-speed revolving-brush, the same acting upon the material, as it slowly passes over a compensating-roller in the manner as, and for the purpose specified, and in combination with the above.

2. The construction of the double yielding compensating journal-boxes, applied for the purposes herein set forth.

WILLIAM PRICE.

Witnesses:

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