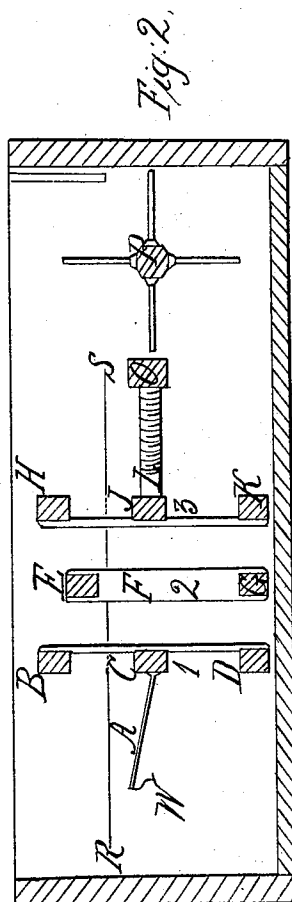
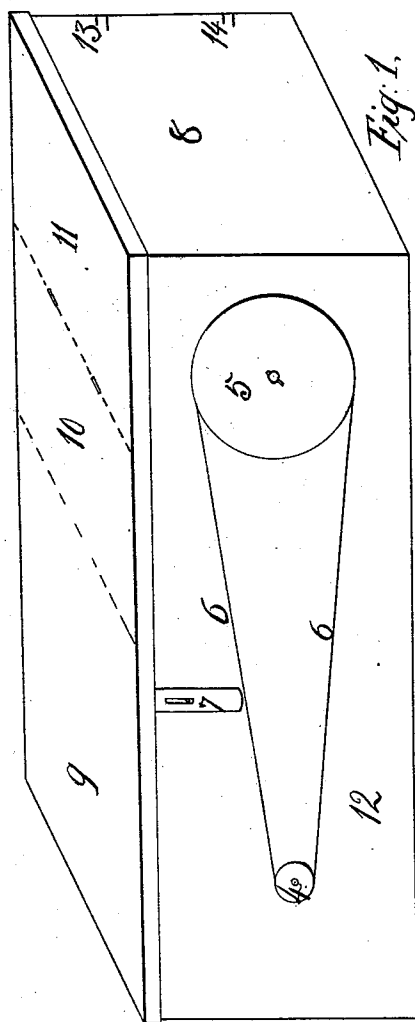


R. A. Fisher,
Washing Machine,
No 7,753, Patented Nov. 5, 1850.



UNITED STATES PATENT OFFICE.

RICHD. A. FISHER, OF SUNBURY, PENNSYLVANIA.

WASHING-MACHINE.

Specification of Letters Patent No. 7,753, dated November 5, 1850.

To all whom it may concern:

Be it known that I, RICHARD A. FISHER, of the borough of Sunbury, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Machine for Washing Clothes entitled "Fisher's Atmospheric Machine;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is an outside or perspective view and Fig. 2 a transverse section of the same. Letter W in Fig. 2 represents a crank; letter A a pitman.

Nos. 1, 2, and 3 represent washers. Letter B upper cross piece; letter C, center cross piece and D lower cross piece in washer No. 1. Letter E is an upper cross piece and G is a lower cross piece in washer No. 2. Letter F in washer No. 2 represents slats. Letter H upper cross piece, J middle cross piece and K lower cross piece in washer No. 3. Letter L is a spiral spring. Letter O is a square. Letter P a fan. Letter Q (with a dot above it) is an opening for the admission of air. Letters R and S connecting rods.

Nos. 4 and 5 in Fig. 1 are pulleys. No. 6 strap or rope. No. 7 regulator of the strap. No. 8 end piece of the washing tub. Nos. 9 and 11 cover. No. 12 side of tub. No. 10 the lid.

To enable others to make and use my invention I will proceed to describe its construction and operation as follows to wit.

The crank W is calculated at seven inches and the pitman A at fourteen inches; they are made of brass or iron.

The pitman A is attached at one end to the crank W with a hole in it for the crank to work in. The other end of the crank is fastened to the center piece of washer No. 1 by means of a joint. Washer No. 1 is a frame made of solid wood, on which are fastened slats running up and down extending one half of an inch over the frame of the washer on the opposite side from where the pitman A is attached.

Washer No. 2 differs from washer No. 1 in not having a center cross piece and in having the slats (which run up and down) extended on both sides of the washer a half inch, placed in such a position so as not to come in contact with the slats in washers

Nos. 1 and 3; the slats pass each other at one quarter of an inch.

Washer No. 3 is constructed similarly to washer No. 1. The washers come within an eighth of an inch from the bottom of the tub.

The spiral spring L is attached to the cross piece J, in washer No. 3 and to the square O by means of which the spring can be set for high or low pressure.

The fan P is made of four or six wings and with gudgeons extending through the sides of the tub or box. The fan is placed behind the spiral spring. The wings of the fan are to reach within two inches of the bottom of the tub or box.

Letters R and S are connecting rods; two of which are on each side of the washers. One of the connecting rods is placed three inches from the top and the other three inches from the bottom of the tub or box; they are permanently fastened in washer No. 2, but work loosely in washers Nos. 1 and 3. The rods are kept in their proper position by means of eight staples fastened in the inside of the tub or box.

Q is a slide for the admission of air extending down to the wings of the fan.

In Fig. 1 Nos. 1 and 5 are pulleys. No. 4 is a pulley three inches in diameter attached to the outside of the tub or box, on the gudgeon to which the fan is fastened. No. 5 is a pulley twelve inches in diameter fastened on the same side of the tub to that part of the crank W which extends to the outside of the box.

No. 6 is a rope or strap passing around pulleys Nos. 4 and 5.

No. 7 is a regulator of the strap. No. 8 represents the end, Nos. 9 and 11 the top, and No. 12 the side of a common box in which the machine is placed.

No. 10 is a lid with two hinges.

Nos. 13 and 14 are two holes of an inch square each, through which the air passes out of the machine.

Operation of machine: In turning the crank (by means of a crank outside of the tub) which is attached to the pitman washer No. 1 is moved 7 inches, against washer No. 2 and from thence to washer No. 3, by means of which the water and air (the latter caused by the use of the fan) are forced through the clothes, which are hung on washer No. 2. At every revolution of the crank the washers are placed in their proper

positions again, equidistant from each other and with the same motion the spiral springs are contracted and expanded so as to give sufficient pressure to wash the clothes. The
5 fan is also put in motion by turning the crank, and is intended to draw the air through the opening Q into the tub, and impregnates the water with air. The water is placed into the hulk nearly boiling hot.
10 About 4 or 5 inches in depth of water is placed in the tub or box. Very little soap is required in the washing. The fan, when in motion, throws a sufficient quantity of water upon the clothes to keep them in a

condition for washing. The clothes should 15 be washed out of two waters. The lid of the box must be closed during washing.

What I claim as my invention and desire to secure by Letters Patent is—

The arrangement of three vertical pressers 20 or washers in combination with the fan arranged and operated in the manner and for the purposes above set forth.

R. A. FISHER.

Witnesses:

CHAS. J. BREMER,
I. H. ZIMMERMAN.