W. Younger,

Washing Machine,

No. 5,353. Patented Nov. 6, 1847.

Fig. 4.

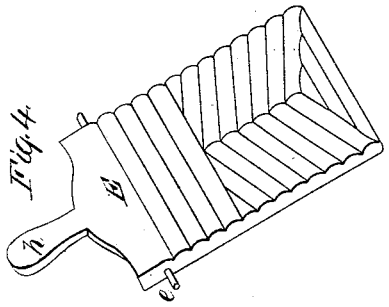


Fig. 1.

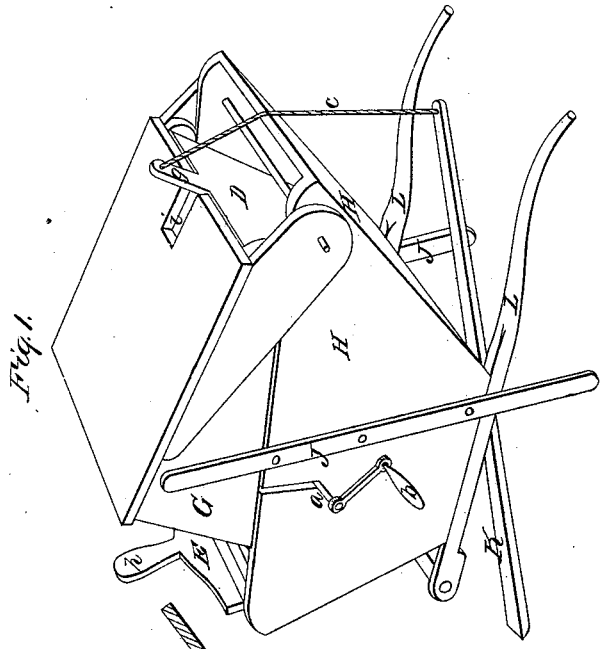


Fig. 3.

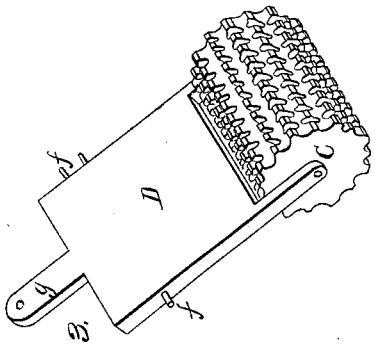
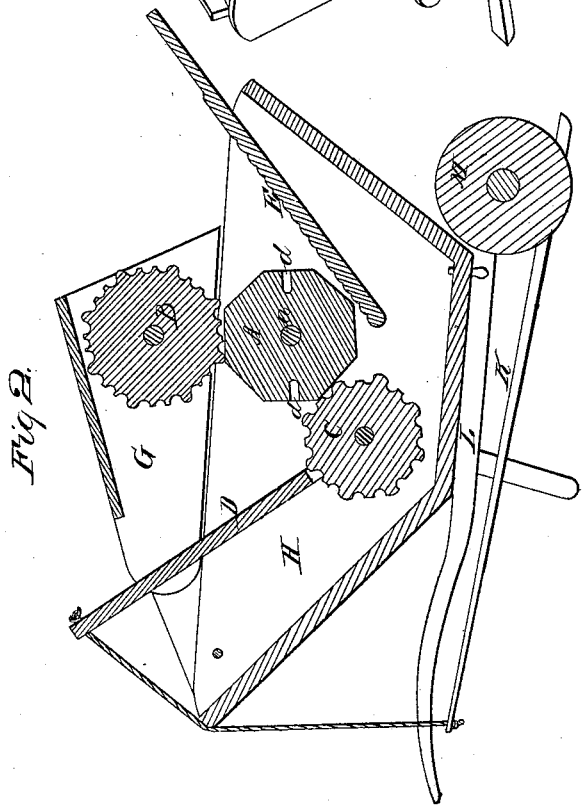


Fig. 2.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE

WILLIAM YOUNGER, OF HUNTINGTON, TENNESSEE.

WASHING-MACHINE.

Specification of Letters Patent No. 5,353, dated November 6, 1847.

To all whom it may concern:

Be it known that I, WM. YOUNGER, of Huntington, in the county of Carroll and State of Tennessee, have invented a new and Improved Washing-Machine; and I do hereby declare the following to be a full and exact description of its construction and operation, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a perspective elevation, Fig. 2, is a vertical longitudinal section, and Figs. 4, and 5, are perspective views of parts of the machine detached.

The same letters refer to corresponding parts in all the figures.

H, is a box having vertical sides and inclining ends flaring outward from the bottom, constructed in any usual manner: the box H, contains the apparatus for scrubbing the clothing, and receives the soap and water in which the clothing is scrubbed and washed.

G, is the cover of the box H, secured by hinges at its rear end.

L, L, are shafts.

J, J, are legs, and M, is the wheel, composing a wheelbarrow upon which the box H, is mounted, and by the aid of which it can be conveniently transported from place to place to suit the convenience of the person using the same.

A, is a driving roller of an octahedral form, supported by a shaft *a*, passing through the box H.

b, is a crank on the projecting end of shaft *a*. Each of the eight sides of the roller A, have perfectly smooth surfaces, with the exception of two on opposite sides of the same; these two surfaces have small holes *d*, *d*, formed in them to the depth of a few inches.

B, is a roller of the same form of driving roller A, with the exception that its eight sides are fluted; it is placed directly over A, and revolves on pivots secured in the sides of the cover G.

C, is a roller of the same form of A, and B, with the exception that its eight sides are covered with oval teeth, formed on the same by means of longitudinal and transverse flutes intersecting each other. The roller C, has the pivots on which it revolves secured in the sides of a recess formed in the lower end of a vibrating board D; the vibrating board D, is suspended by, and vibrates on the projecting pivots *f*, *f*, having their bearings in the sides of the box H.

c, is a cord attached to the handle *g*, at the upper end of the vibrating board D, passing over the rear end of the box H, and descending, is connected to the treadle K, (passing under the box H, from the rear to the front, as represented in Fig. 1,) by which the board D, and roller C, are operated. The roller C, is suspended partially below the driving roller A, on its front side, and can be pressed against the same by forcing down the treadle K.

E, is a vibrating rubbing board with a fluted surface, secured in the rear end of the box H, suspended by and vibrating on the pivots *e*, *e*, in such a position that by drawing forward the handle *h*, at its upper end, the rubbing surface of the board will be pressed against the rear under side of the roller A.

k, is a plug inserted in an aperture in the bottom of the box H, by removing which the box may be drained of its contents. The operation of my machine is as follows: The box H, is supplied with a suitable quantity of soap and water; the clothing to be washed, is then secured to the driving roller A, by forcing a small portion of each garment into one of the holes *d*, *d*, in the same; when thus prepared, the attendant places himself (or herself) on the right side of the machine near its front end, and takes hold of the crank *b*, with his right hand and revolves the driving roller A; with this left hand he takes hold of the handle *h*, and drawing it forward, presses the rubbing surface of the board E, against the clothing revolving on the roller A, at the same time placing his foot upon the treadle K, he forces the toothed roller C, against the clothing revolving on the roller A; the fluted roller B, all the while pressing upon and changing the position of the clothing revolving on the roller A; pressed by its own weight and the weight of the cover G. The rollers B, and C, receive a rotary motion from the action of the driving roller A. The pressure of the toothed roller C, and the rubbing of the board E, upon the clothing below the surface of the suds in the box H, together with the pressure of the fluted roller B, upon the same above the surface of the suds, as the roller A, is revolved, speadily washes the clothing clean of every impurity. The pressure of the roller C, and the rubbing

board E, against the clothing revolving on the roller A, is varied and graduated to suit the quality and amount of clothing upon the same. The articles of clothing are shifted in the holes *d*, until every portion of each garment is thoroughly cleansed.

Having thus fully described my improved washing machine, and the manner of operating the same, what I claim therein as new and desire to secure by Letters Patent, is—

The combination with the driving roller A, of the toothed roller C, fluted roller B, and rubbing board E; the board E, rubbing the clothing, and the rollers B and C, pressing upon and changing the position of the clothing as they are revolved, substantially in the manner and for the purpose herein set forth.

WILLIAM YOUNGER.

Witnesses:

THO. A. HAWKINS,

Y. W. ALLEN.