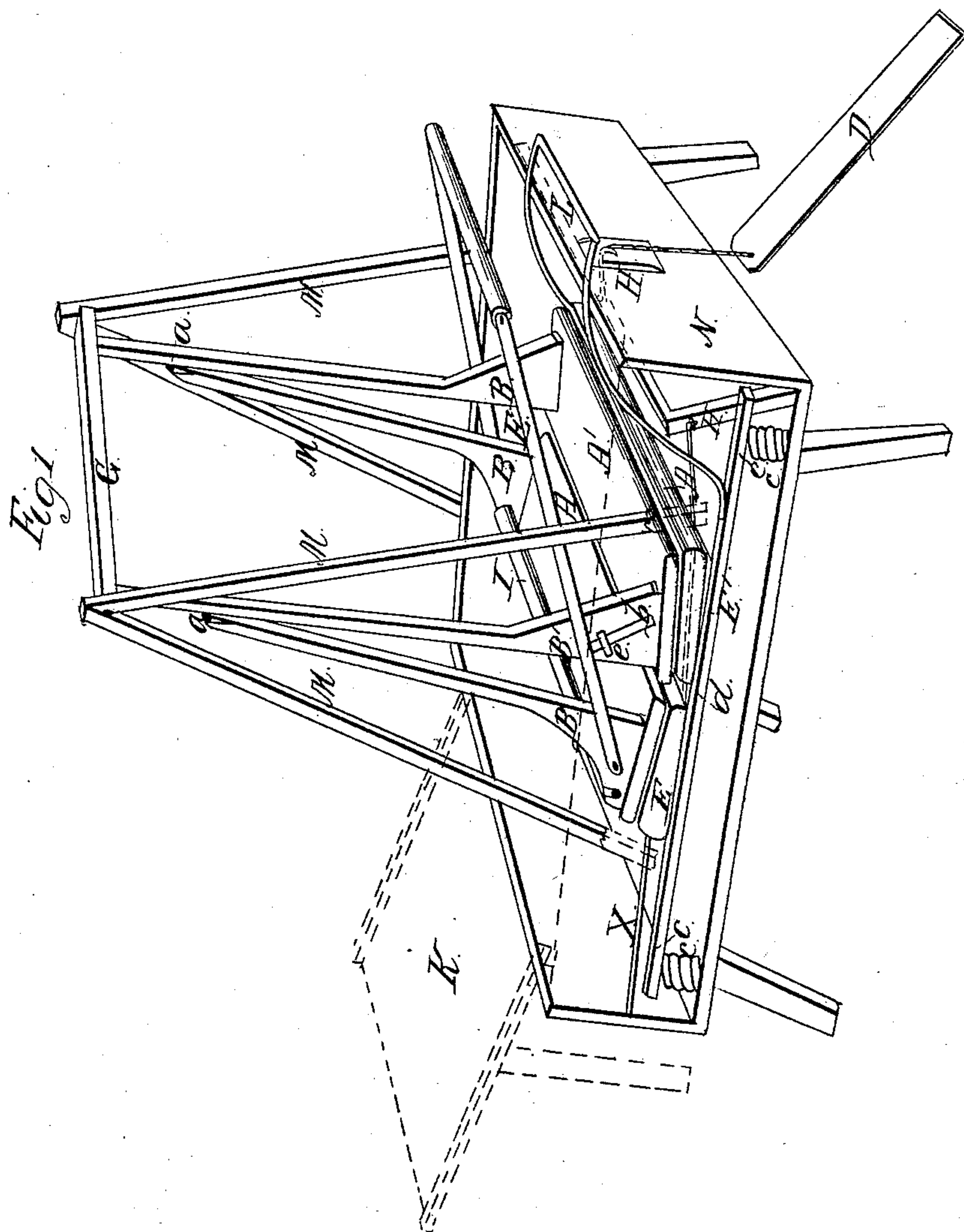


E. L. Evans,
Washing Machine,
No 9,707, Patented May 10, 1853.



UNITED STATES PATENT OFFICE.

EVAN L. EVANS, OF HARTFORD, CONNECTICUT.

WASHING-MACHINE.

Specification of Letters Patent No. 9,707, dated May 10, 1853.

To all whom it may concern:

Be it known that I, EVAN L. EVANS, of the city and county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in constructing two rubbers which are suspended on brackets, said brackets being suspended from a crossbar which connects to frames which are erected for the purpose of supporting the rubbers. One of the rubbers is secured to the lower end of the brackets while the other is suspended on a similar bar which is secured to the main bar by means of a hinge which allows the rubbers to be drawn together or forced apart by the operation at pleasure—which operation is performed by means of an apparatus which is adapted to that purpose. These rubbers act in combination with other rubbers corresponding to them which are placed directly under them one of which is secured firmly to a bar while the other is allowed to slide freely on the same surface which admits of its being drawn away from the one which remains stationary (which is done by means of a spring) or forced against it by means of a treadle and pulley which is operated by the foot. The bars on which the rubbers are secured are supported by means of spiral springs being placed under them and secured to the floor of the machine, which allows the bars and lower rubbers to be depressed at pleasure which is done by means of a handle provided for that purpose.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

I construct a reservoir in which the rubbers A, A', E, E', are placed as seen in the drawings Figures 1, 2 and 3.

The rubbers A, A' are suspended on brackets B, B', said brackets being attached to a cross bar C, which is sustained in suitable bearings and allows it to oscillate when required. The bracket B, is secured to the main bracket by means of a hinge as seen in the drawings at *a*, which allows it to be forced from or drawn toward the stationary rubber A' said operation being performed by means of a rod F the lower end of which is firmly secured to the lower end of the

bracket B, and near the lower end is formed a projection *b* which is inserted in a staple *c* said projection running at right angles to the bar. Directly under the rubbers A, A' are placed other rubbers E, E', which correspond in form to those above mentioned. The rubber E' is secured to the bar *d* while the other is allowed to slide on the upper surface of said bar and is operated by means of a treadle and pulley H.

The operation of my machine is as follows—the end of the clothes or article to be washed are inserted between the rubbers E, E' which are now closed by placing the foot on the treadle and forcing it down until the article is firmly secured. Then the rubbers A A' are drawn toward the operator for the purpose of giving length to the part to be operated upon. When this is done the rubbers are also closed by forcing down the rods F F and projections *b b*, which are passed through the staple *c*, as seen in the drawings. After the article has been secured firmly between both sets of rubbers the rubbers A A' are drawn back and forward until the friction which is thus created has thoroughly cleansed the part under operation. Then the operator raises his foot from the treadle and releases the rubber E which is drawn back by the spring X, and allows the cloth to fall through between the rubbers into the reservoir of water below. Then the rubbers are again closed as before and the handle F is elevated sufficient to loosen the upper or vibrating rubbers which are now drawn toward the operator as before for the purpose of grasping another section of the cloth which is now to be presented to the friction as before and thus the operation is continued until the whole piece has been operated upon.

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

1. The combination of the rubbers A, A' and rod or handle F for the opening or closing said rubbers by the same handle with which the rubbing is performed.

2. I also claim the combination of the rubbers E E' with the rubbers A, A' and the bars *d* so that the two pairs of rubbers shall each of them grasp the cloth and rub it between them substantially as herein set forth and described.

E. L. EVANS. [L. s.]

Witnesses:

HENRY F. WILLSON,
D. A. BROOKS.