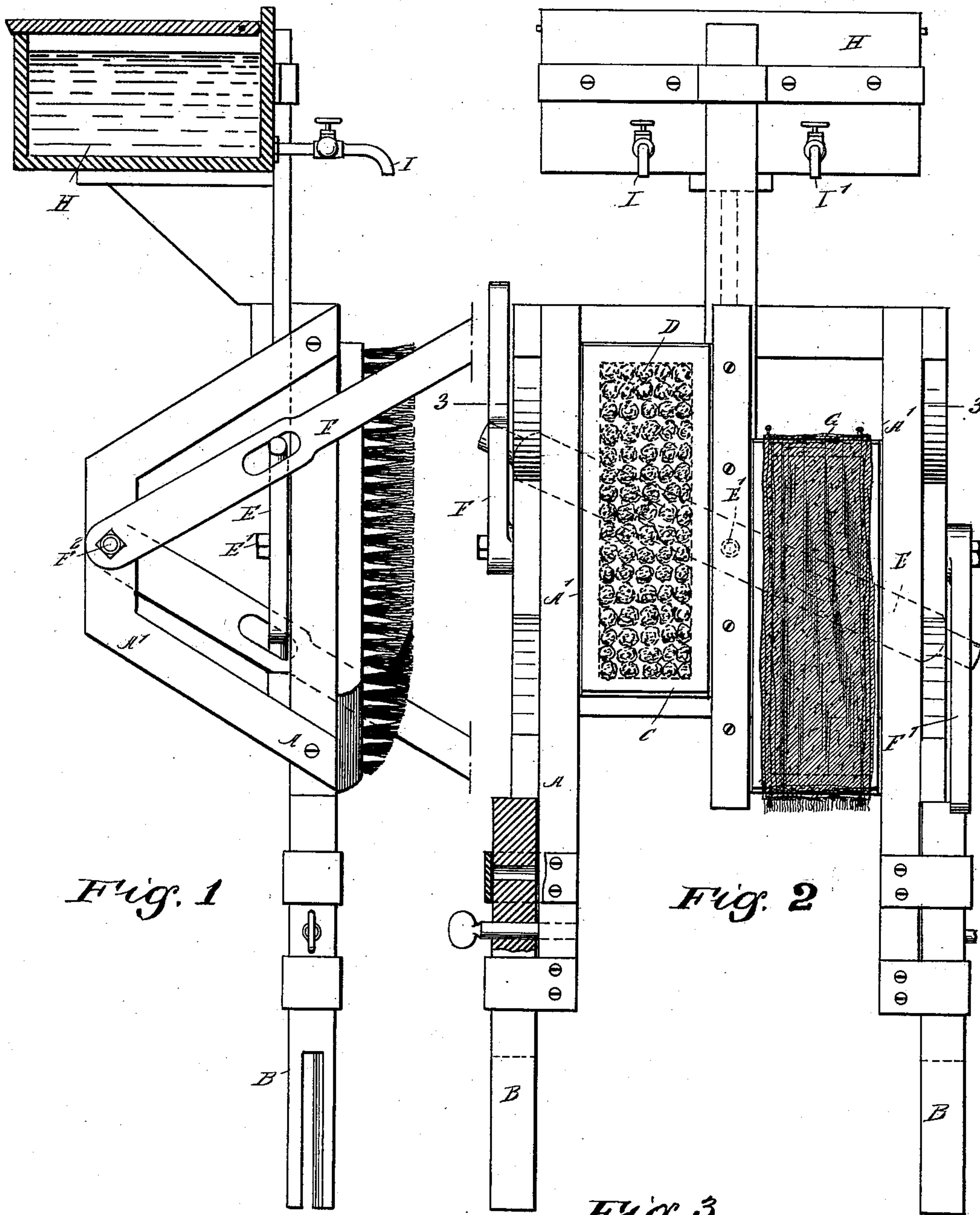


(No Model.)

E. WATERS.  
BRUSHING MACHINE.

No. 534,128.

Patented Feb. 12, 1895.



WITNESSES:

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INVENTOR

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# UNITED STATES PATENT OFFICE

EDWIN WATERS, OF AMAWALK, NEW YORK.

## BRUSHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 534,128, dated February 12, 1895.

Application filed September 24, 1894. Serial No. 523,916. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN WATERS, of Amawalk, in the county of Westchester and State of New York, have invented a new and Improved Brushing-Machine, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved brushing machine, more especially designed for use in a bath room, and arranged to enable the user to conveniently rub, scrub and wipe dry, his back or other part of his body.

The invention consists of reciprocating brushes moving in opposite directions, and faucets connected with the water supply and discharging onto the said brushes.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement with part in section. Fig. 2 is a front elevation of the same with part in section, and Fig. 3 is a sectional plan view of part of the improvement, on the line 3—3 of Fig. 2.

The improved brushing machine is provided with a suitably constructed frame A, preferably provided with extension legs B, adapted to be fastened to the rim of the bath tub or other place. In the frame A are arranged two sets of vertically disposed guideways A' on which are mounted to slide the slides C and C' supporting at their front faces brushes D and D' respectively, of any approved construction, preferably, however, curved inward and rearward at the bottom, as indicated in Fig. 1.

From the rear of the slides C and C' extend transversely the pins C<sup>2</sup> and C<sup>3</sup> respectively, engaging slots in a lever E fulcrumed at E' and connected at its outer reduced ends with the handle levers F and F' respectively, extending transversely and with their free ends forward, so as to be easily taken hold of by the user of the machine, standing with his back toward the face of the brushes D and D'. The hand levers F and F' are fulcrumed at their

rear ends at F<sup>2</sup> on an extension A' of the fulcrum A.

It will be seen that the lever E is fulcrumed at its middle and engages the pins C<sup>2</sup> and C<sup>3</sup> on opposite sides of the fulcrum, so that the handle levers F and F' stand in opposite directions, whereby the operator in using the machine, has to move one lever handle up, while the other is moved down to impart a reciprocating motion to the slides C and C' in opposite directions, so that one brush moves upward, while the other moves downward.

In using the machine, the operator adjusts the frame A, so as to bring the brushes to a height corresponding to the back of the person, and when the latter uses the machine, he moves his back in close contact with the brushes, and then manipulates the handle levers F and F', to cause the brushes to move up and down, thereby scrubbing the back of the person. During this operation, streams of water are supplied to the brushes from a suitable tank H, supported on top of the frame A and provided with faucets I and I' extending in alignment with the brushes D and D', so that when the faucets are open, water flows onto the brushes to assist in cleaning the operator's back.

It is understood that the faucets I and I' can be connected with any other source of water supply if desired.

When through scrubbing, the operator closes the faucets I and I' and covers one or both of the brushes with a towel G, as indicated to the right in Fig. 2, the said towel being hung on suitable pins projecting from the back of the brushes. The operator then manipulates the lever handles F and F', so that the towel wipes the back of the person dry. Thus, it will be seen that the machine can be readily set in motion by the user to rub and scrub his back and also to wipe dry.

The brushes D and D' are preferably rounded at their lower ends and curved rearwardly, as previously described, so as to prevent the lower ends of the brushes from striking and injuring the hips of the person.

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

1. In a brushing machine, the combination



of a frame having guide-ways, brushes mov-  
ably mounted in the respective guide-ways,  
said brushes being connected and adapted to  
move together and provided with means for  
5 simultaneously imparting thereto reciproca-  
tory movement in opposite directions, sub-  
stantially as set forth.

2. A brushing machine comprising a frame  
having vertically disposed guideways, slides  
10 fitted to slide in the said guide ways and  
adapted to carry the brushes, a lever ful-  
crumed on the said frame and pivotally con-  
nected at opposite sides of its fulcrum with  
the said slides, and hand levers fulcrumed on  
15 the said frame and extending transversely  
to be taken hold of by the operator, substan-  
tially as shown and described.

3. In a brushing machine, the combination  
of a frame having guide-ways, brushes mov-  
20 ably mounted in the respective guide-ways, a  
lever fulcrumed at its central part to the  
frame and coupled at opposite sides of its ful-  
crum to the respective brushes, whereby the  
same are caused to move in reverse directions  
25 when the lever is moved, and hand levers ful-  
crumed on the frame at opposite sides thereof  
with their free ends projecting beyond the  
front face of the frame at right angles thereto,

said levers being connected to the respective  
ends of said first mentioned lever, substan- 30  
tially as set forth.

4. In a brushing machine, the combination  
of a frame having guide-ways, brushes mov-  
ably mounted in the guide-ways, a lever ful-  
crumed at its central part to the frame and 35  
coupled at opposite sides of said fulcrum to  
the respective brushes, whereby the same are  
caused to move simultaneously in reverse di-  
rections, and means for operating said lever,  
substantially as set forth. 40

5. In a brushing machine, the combination  
of a frame having guide-ways, brushes mov-  
ably mounted in the respective guide-ways,  
a lever fulcrumed at its central part to the  
frame and coupled at opposite sides of said 45  
fulcrum to the respective brushes, whereby  
the same are caused to move simultaneously  
in reverse directions, means for operating said  
lever, and extension legs adjustably mounted  
on the frame and adapted to be secured to the 50  
rim of a tub or the like, substantially as set  
forth.

EDWIN WATERS.

Witnesses:

GARWOOD R. PEET,  
GEORGE S. TOMPKINS.