

D. W. Bancroft.

Washing-Machine.

N^o 76037

Patented Mar. 31, 1868

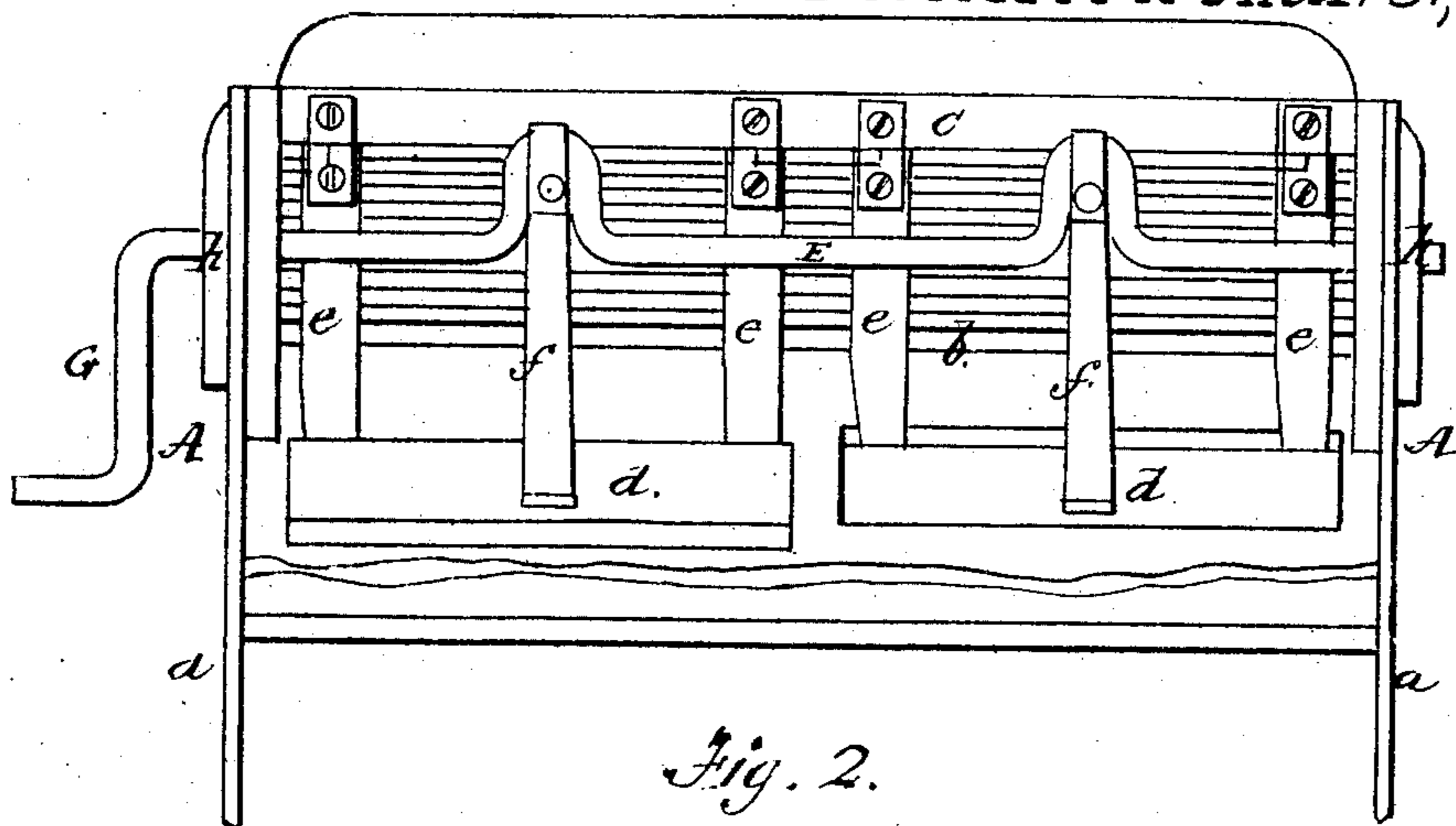


Fig. 2.

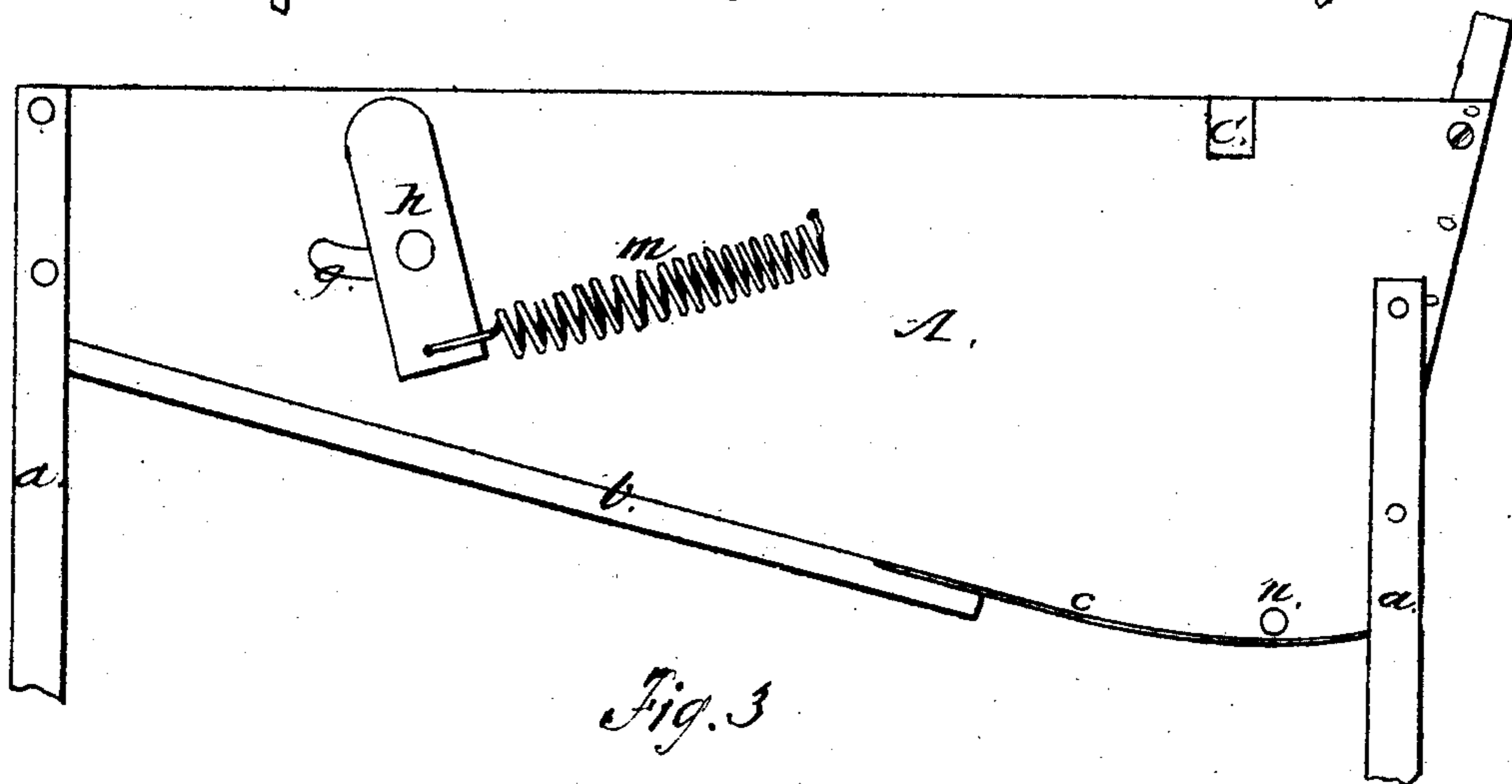
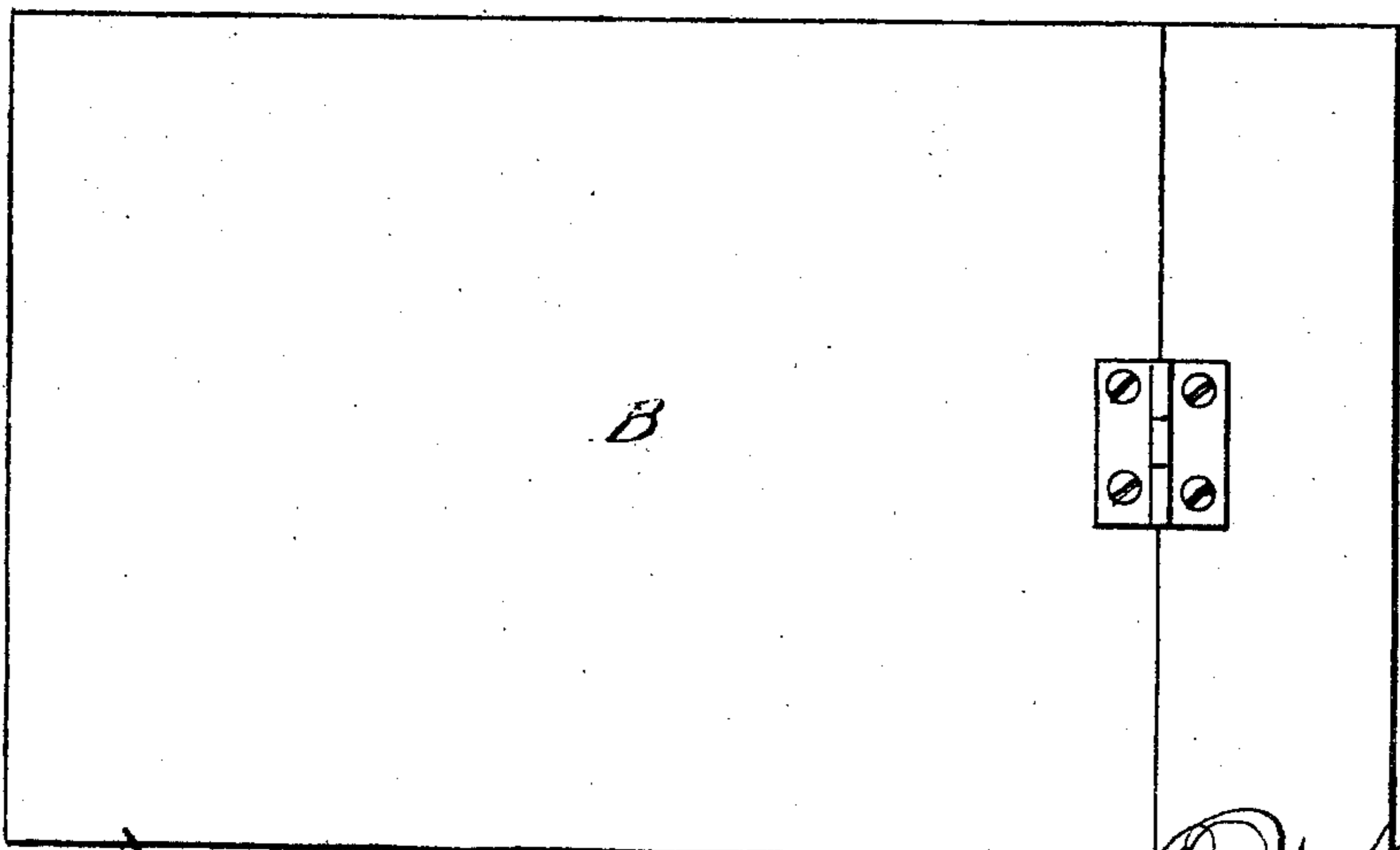


Fig. 3



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DANIEL W. BANCROFT, OF MARSHFIELD, VERMONT.

Letters Patent No. 76,037, dated March 31, 1868.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, DANIEL W. BANCROFT, of Marshfield, in the county of Washington, and State of Vermont, have invented a new and useful Improvement in Washing-Machines for washing clothes of all descriptions, which I call the "Green-Mountain Washing-Machine;" and I do hereby declare that the following is a clear and exact description of the construction and operation of the same, reference being had to the annexed drawings, in which—

Figure 1 is a front view, with the end and top removed, showing the internal arrangement.

Figure 2 a side elevation, and

Figure 3 a top view of my machine.

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

A designates the tub, made as shown in the drawings, which may be of any desired size, and said tub is supported by legs *a a*. The bottom, *b*, of said tub is made slanting from its rear end to about three-quarters of its length, or to the point *c*, from which point it is curved to its forward end. The curved surface of this bottom is made of zinc or any suitable material. The upper portion of the forward end of the tub is made slanting and corrugated, which serves as a washing or rubbing-board, and the lower part of said end is made vertical in order to allow room for the beaters to play back and forth. B represents the top or cover, which is made into two parts and hinged together, the object of which is to prevent the necessity of removing the whole top-piece B when the clothes or articles to be washed are to be put into and taken from the tub; but the entire piece may be removed when desired. C is an adjustable cross-beam, mortised or set into the upper part of the sides of the tub A near its forward or deepest end. To one side of this beam are hinged the upper ends of the arms *e e*, said arms being furnished at their lower ends with the beaters *d d*. The said arms *e e* are mortised in the beaters *d d* near their centre. *f f* indicate two arms, which are also hinged to the side of the beaters *d d*. Said arms are so secured at their other ends, to the shaft E, that they will work freely when operated. The shaft E is made of iron, or any suitable material, and is furnished at its outer end with a crank or handle, G, by means of which it is operated. The said shaft E is also formed with two cranks, as shown in the drawings, to which are attached the ends of the arms *f f*, by means of metal loops. The object of said arrangement is to communicate an alternate motion to the beaters *d d*. *g g* indicate two curved slots, which are made in the sides of the tub A, near its rear end, as seen in fig. 2, in which the shaft E plays back and forth when desired. *h h* indicate supports loosely secured to the sides of tub A, directly over the curved slots *g g*, in which supports the shaft E has its bearings. *m m* represent two spiral springs, one end of said springs being secured to the tub, as shown in fig. 2, and the opposite ends attached to the lower ends of the supports *h h*. The object of these springs is to press the beaters *d d* against the clothes, and also to allow the said beaters to adjust themselves to the size or quantity of articles to be washed. *n* is a hole in the side of the tub, near its bottom, which serves as an exit for the water, and said hole may be closed by means of a cork or plug.

It will be observed that the adjustable cross-beam may be removed at pleasure, and the internal arrangement displaced or bent back over the rear side of the tub, and thus allow the said tub to be used for washing in the common way also.

The operation of my machine is as follows: The crank or handle G will be grasped and turned, operating the shaft E and its cranks, which will operate the arms *f f* alternately, and said arms will communicate a like motion to the beaters *d d* and its arms *e e*, said arms being allowed to work freely by means of its hinges, and at the same time the spiral springs *m m* will allow the supports *h h* to move backwards or forwards with the shaft E in the curved slots, in order to enable the beaters to accommodate themselves to the size or quantity of articles to be washed.

It will be remarked that if any of the clothes should happen not to be washed perfectly clean they may be rubbed or washed against the corrugated side of the tub, thus producing the required cleanliness.

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

1. The swinging supports *h h*, provided with spiral springs *m m*, in combination with slots *g g* and shaft *E*, substantially for the purpose specified.

2. I claim the adjustable cross-beam *B*, to which are hinged the beaters *d d*, in combination with hinged arms *f f*, shaft *E*, swinging supports *h h*, and spiral springs *m m*, all arranged substantially in the manner herein set forth.

DANIEL W. BANCROFT.

Witnesses:

JOSEPH A. WING,
ORAMEL H. SMITH.