

E. G. W. Bartlett,

Wringer.

No. 108674.

Patented Oct. 25. 1870.

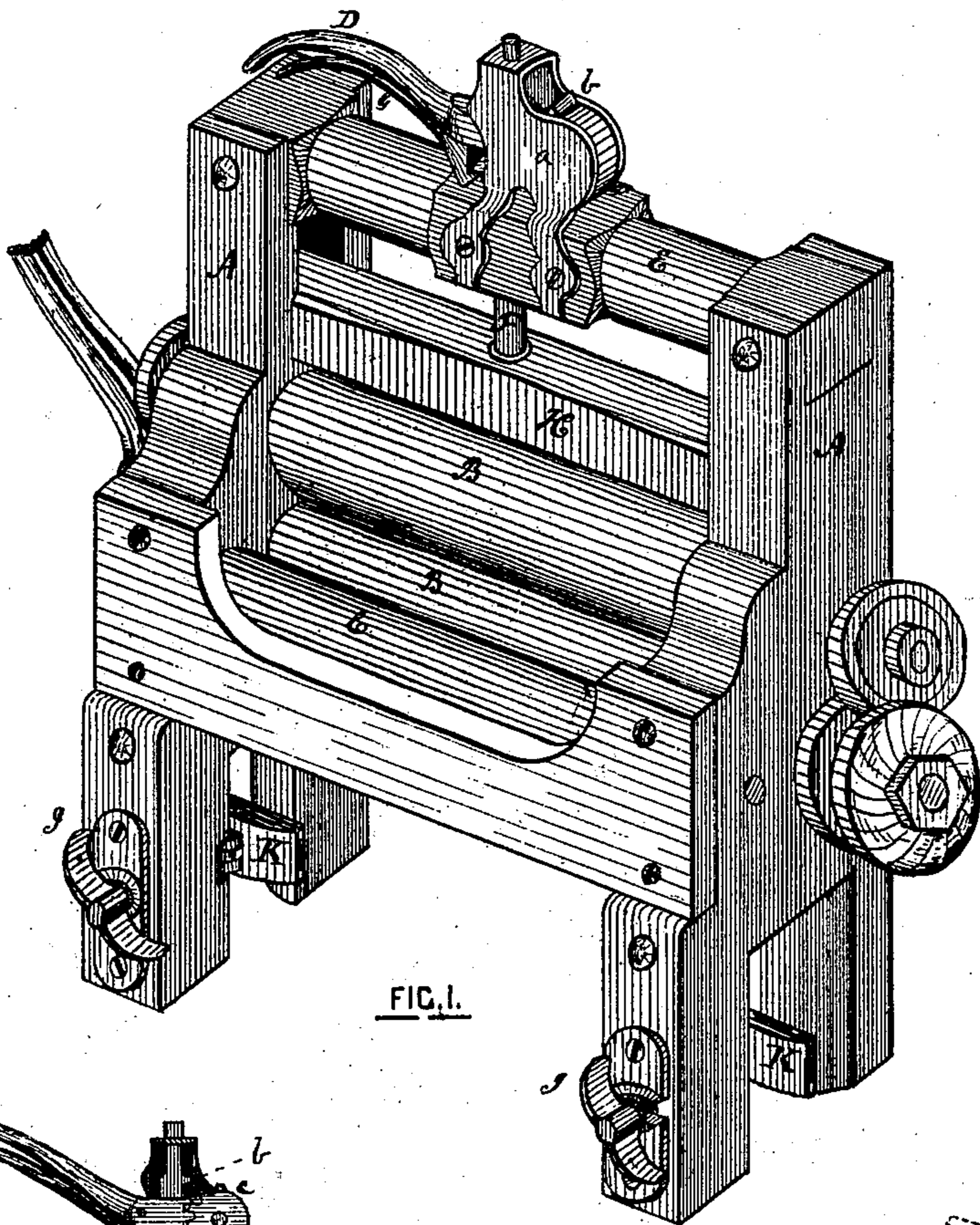


FIG. 1.

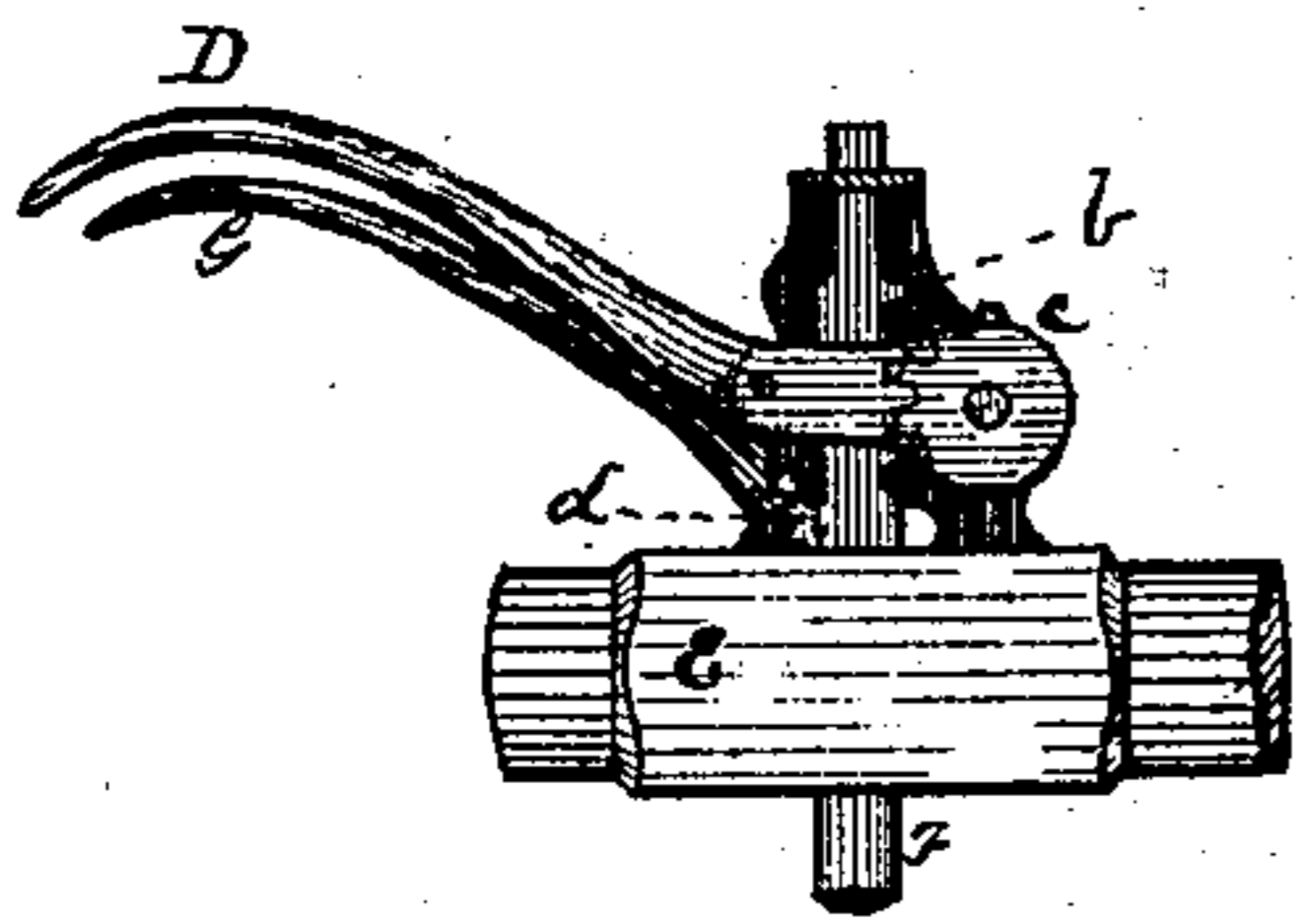


FIG. 2.

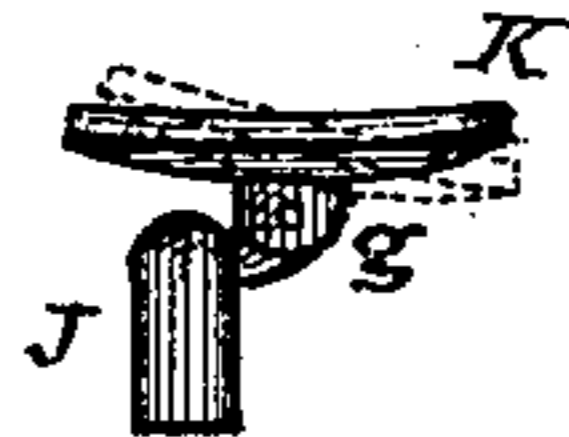


FIG. 3.

WITNESSES:

Edward C. Ames
Peter F. Hughes

INVENTOR.

Edbridge G. W. Bartlett

United States Patent Office.

ELBRIDGE G. W. BARTLETT, OF PROVIDENCE, RHODE ISLAND.

Letters Patent No. 108,674, dated October 25, 1870.

IMPROVEMENT IN WRINGING-MACHINES.

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, ELBRIDGE G. W. BARTLETT, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Wringing-Machines; and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view in perspective of the machine.

Figure 2 is a view of the device for bringing the surfaces of the rollers nearer together.

Figure 3 is a view of a clamp employed in the machine to attach it to a tub.

In the drawing—

Fig. 1, A A are the standards for supporting the squeezing-rollers B B.

The driving gear of the rollers, and the clearer-roller C, shown in the drawing, are fully described in the Letters Patent granted to me May 24, 1870, and the machine, except in the particulars hereinafter specified as constituting the improvements, is the same in principle as many machines for this purpose known to the art.

The improvements which are the subject of this patent relate—

First, to a device for bringing the surfaces of the squeezing-rollers nearer together; and

Second, to a clamp for attaching a machine to a wash-tub.

Ordinarily one or more thumb-screws are employed to cause the boxes which contain the journals of the upper roller to approach nearer to the boxes of the lower roller, and thus bring the yielding surfaces of the rollers closer together. In place of such screw or screws I make use of the hereinafter-described device.

D is a lever, whose fulcrum is at *a*, in a standard set in the cross-bar E of the frame of the wringer. This lever has a mortise cut through it of sufficient size to admit the squared shank of the rod F, which latter is held in guides so that it can be readily moved for a limited distance up or down.

The back side of the shank of the rod is furnished with teeth, *b*, constituting a rack, and with these teeth are engaged the teeth of a segment of a pinion, *c*, into which the hub of the lever D is formed.

A latch, G, is pivoted to the lever D, as shown, the

hooked end *d* of which can be made to engage with one of the series of catches *e*.

As the foot of the rod F bears against the cross-bar H, whose ends rest on the boxes of the upper roller, it is quite evident that upon depressing the lever D the surfaces of the squeezing rollers will be brought nearer together, and be held at such distance apart as the latch, and the catch with which it is engaged, shall allow.

A catch and latch-lever compress, as described, is on several accounts more convenient than the compressing-screw usually employed, especially in wringing-machines of large size, in the use of which great inequalities in the thickness of the folds of the heavy articles of clothing subjected to their action occur. A capacity on the part of the machine to be readily adapted to such extreme variations in the thickness of the clothing, without loss of time and without the necessity of stopping the rollers to make the proper adjustment, is highly advantageous.

A further improvement resides in the clamp for securing the washing and wringing-machine to a tub.

It consists in attaching the pressure-pad or plate to the shank, which the thumb-screw operates, by a joint connection, so that such clamp can be made to adapt itself to tubs of any size, and whether circular or square in form.

I is a thumb-screw which works in a collar *f*.

J, fig. 3, is a nut or hollow shank set in a guide in the standard. To this shank the pad or pressure-plate K is hinged at *g*. It is obvious that by this method of construction the clamp is made perfectly self-adjusting to every form and size of tub.

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

1. A catch and latch-lever compress, substantially as described, in combination with the cross-bar H and the boxes of the upper squeezing-roller, as herein specified for the purposes set forth.

2. The thumb-screw I, nut or hollow shank J, and pressure-pad K, all in combination substantially as described.

ELBRIDGE G. W. BARTLETT.

Witnesses:

EDWARD A. AMES,
PETER F. HUGHES.