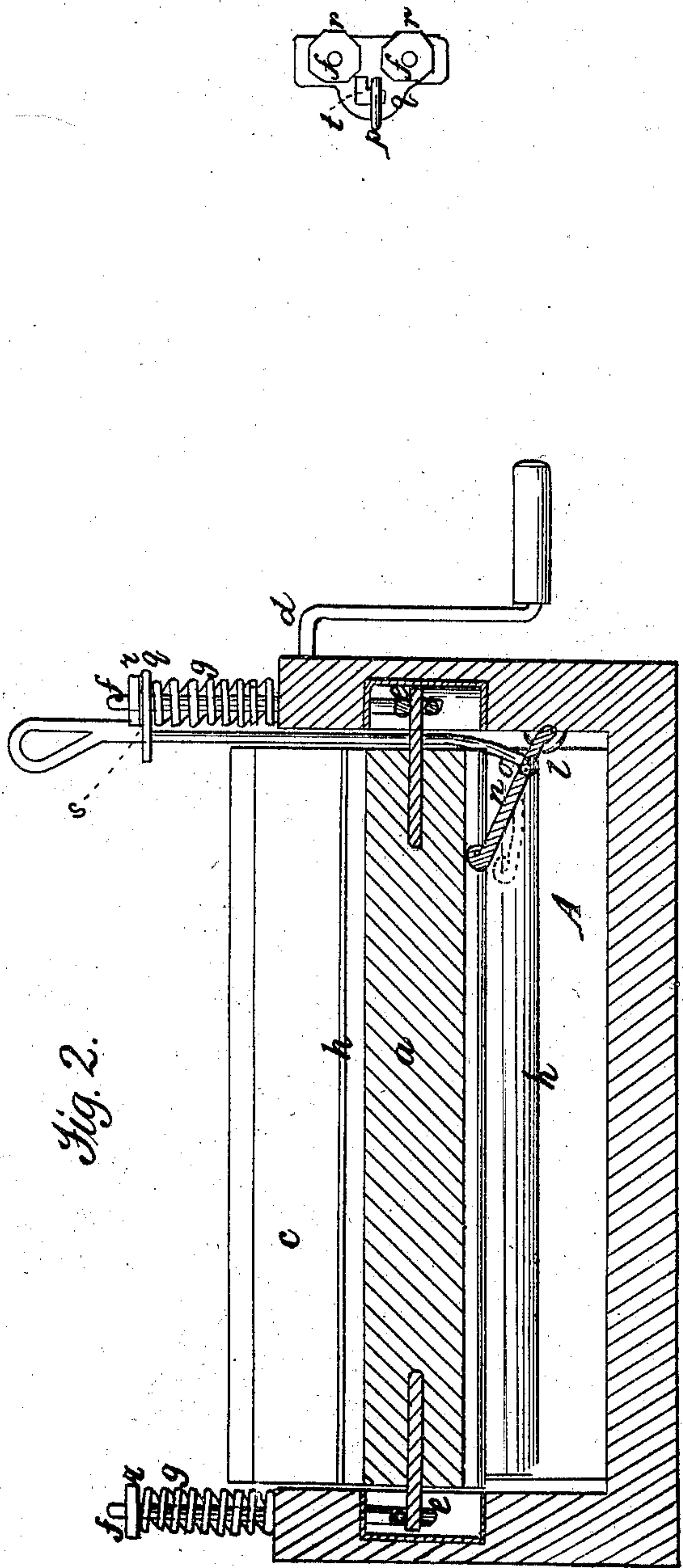
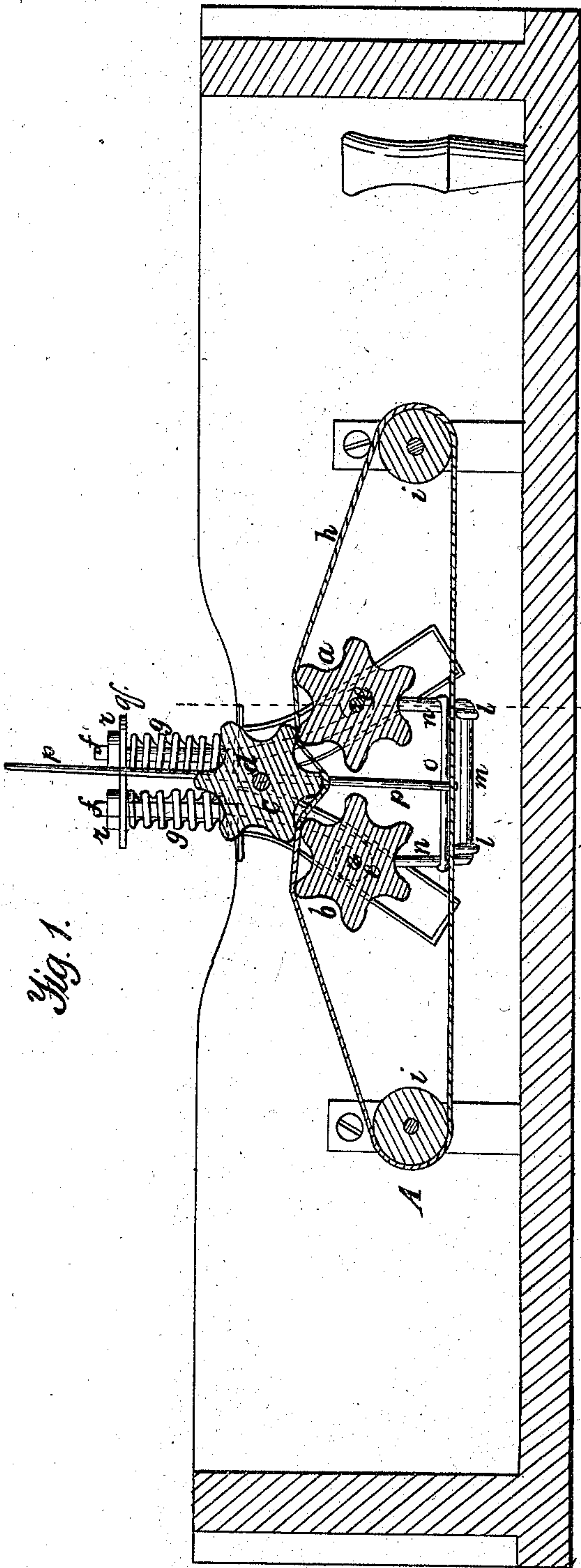


C. L. & J. F. Pond,

Washing Machine.

N<sup>o</sup> 17,113.

Patented Apr. 21, 1857.





# UNITED STATES PATENT OFFICE.

CHAS. L. POND, OF BUFFALO, NEW YORK, AND JOSEPH F. POND, OF CLEVELAND, OHIO.

## WASHING-MACHINE.

Specification of Letters Patent No. 17,113, dated April 21, 1857.

*To all whom it may concern:*

Be it known that we, C. L. POND, of Buffalo, in the county of Erie and State of New York, and J. F. POND, of Cleveland, in the  
5 county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the construction and  
10 operation of the same, reference being had to the annexed drawing, forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of the machine, and Fig. 2 is a vertical section taken through axis of roller *a*.  
15

Similar characters of reference in the several figures denote the same part.

Our invention is an improvement upon machines wherein the washing operation is  
20 performed between fluted rollers; and is designed to effect the stoppage of the lower rollers at the will of the operator, in order that any desired portion of the fabric operated upon may be submitted to a stronger  
25 rubbing than the other parts thereof.

The invention consists in the combination of certain devices hereinafter to be described for effecting the above stated object, the details of which will be readily understood from the following description,  
30 and reference to the drawing.

A is the body of the washing machine, across which run the rollers *a b* and *c*, having a cross section substantially as shown in  
35 Fig. 1. The rollers *a* and *b* have their bearings in the eyes *e* of the rods *f*, held up by springs *g* as is usual in machines of this character. The bearings of roller *c*, are fixed, the power for operating the machine  
40 being applied to the shaft *d* of said roller. An endless apron *h* passes over rollers *i i'* inclosing rollers *a* and *b*, and under roller *c*, as shown in Fig. 1.

Secured against the side of the box A, under staples *l* is a bar *m* with two arms *n*;  
45 said bar *m* being free to turn under the staples. Across the arms runs a connecting bar *o*, to which is attached a rod *p*, leading up through an opening in plate *q*, resting  
50 upon the springs *g* beneath the nuts *r* of rods *f*. There is a shoulder *s* on rod *p* which rests upon the plate *q* when said rod is sufficiently drawn up; the opening *t* in the plate permitting the passage of the broad portion  
55 of the said rod.

The operation of this improvement is as follows:—When it is desired to stop the rotation of the rollers *a* and *b*, rod *p* is drawn up and its shoulder *s* caused to rest upon the plate *q*, as shown in the drawing. The  
60 extremities of arms *n* press into the cavities of the aforesaid rollers, and thereby prevent their rotation. When the rod *p* is permitted to slip into opening *t* of plate *q*, the arms *n* are thrown into the positions indicated by red lines in Fig. 2, causing the  
65 rollers *a* and *b* to be instantly released and free to move. When the rotation of the rollers aforesaid, is stopped, the rod *p* will conform to all the movements of the rods  
70 by which the said rollers are suspended; and on the release of the rollers, the rod *p* is not in any way effected by the movement of the rods *f*.

The practical application and advantage  
75 of this improvement, lies in the fact that many garments are dirtier than others, operated upon at the same time; and even in the same garment there are portions which require an excess of rubbing. When those  
80 parts attract the attention of the operator, the stop may be instantly applied and by oscillating the upper roller cause a knuckle action to be exerted upon them. After operating sufficiently upon those soiled parts  
85 the stop may be removed, and the ordinary action of the machine resumed. We thus furnish an adjustment by which the action of the machine may be tempered to the nature of the work to be performed.  
90

We make no claim to the rollers and apron; but

We claim as new and of our own invention—

The combination of the vibrating stop  
95 piece and its rod *p*, with the securing plate *q* and the spring bearings of the rollers; when said parts are used in connection with fluted rollers arranged and operating as described.  
100

In testimony whereof, we have hereunto signed our names before two subscribing witnesses.

CHARLES L. POND.  
JOSEPH F. POND.

Witnesses:

GEO. PATTEN,  
JOHN S. HOLLINGSHEAD.