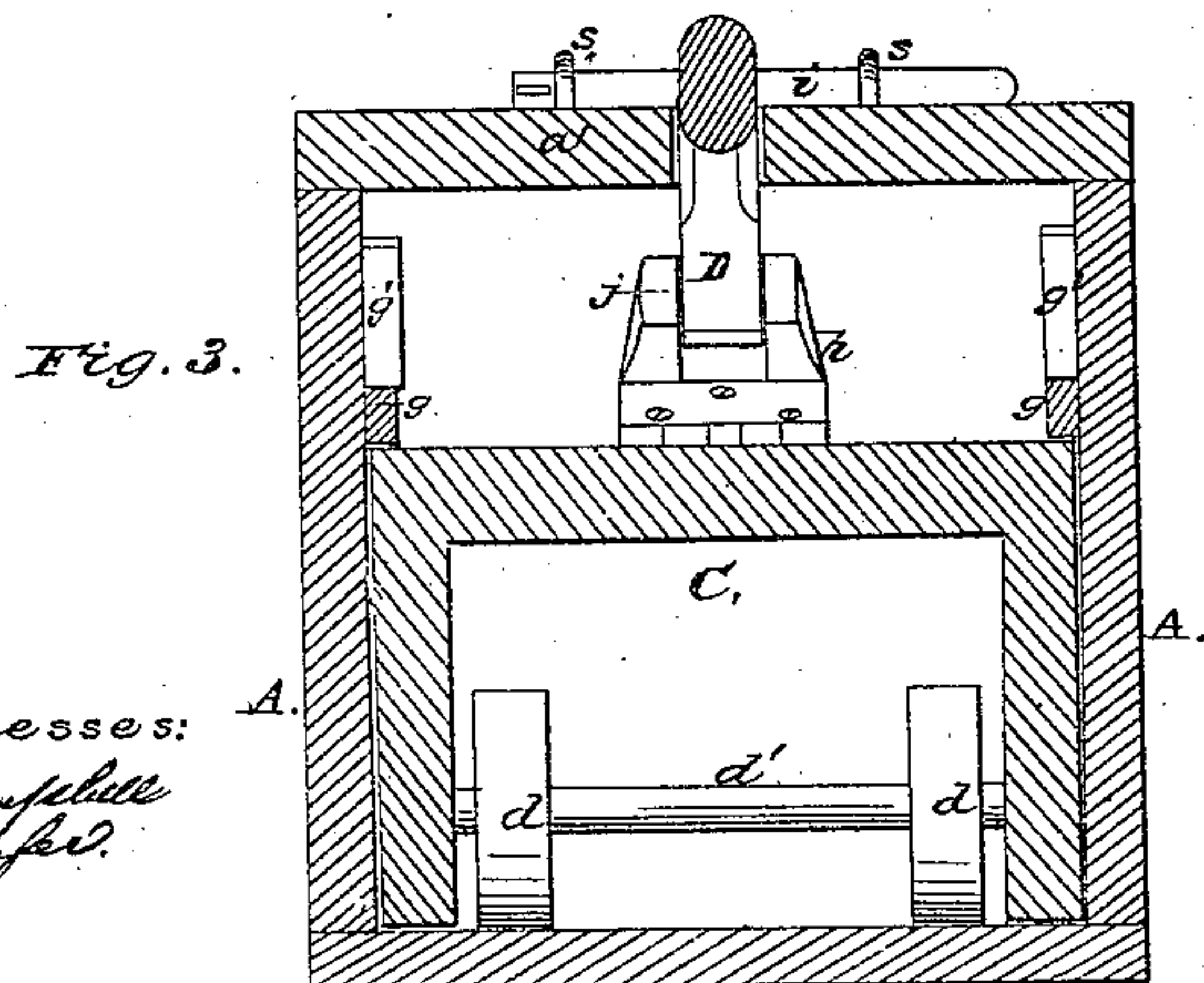
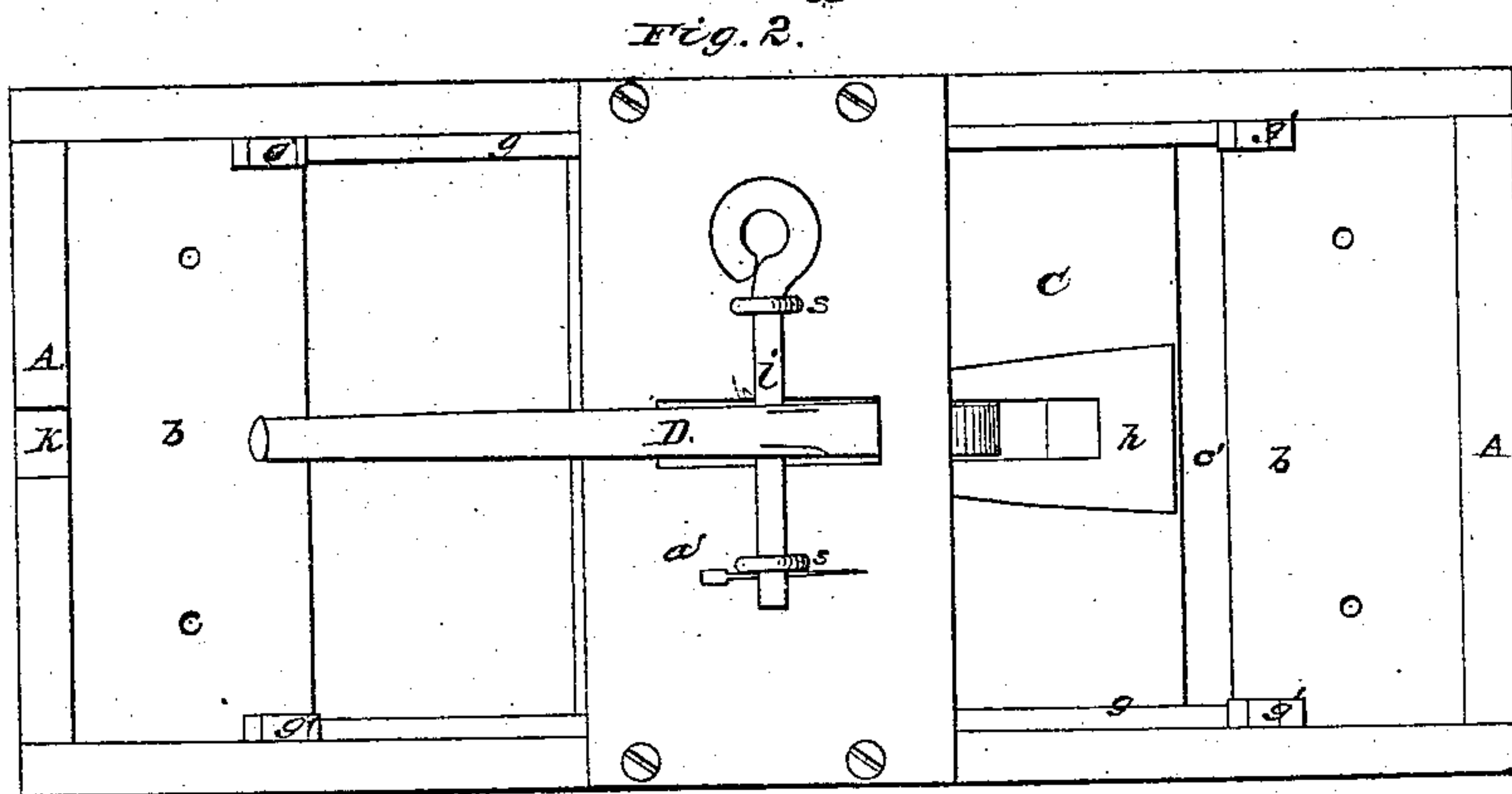
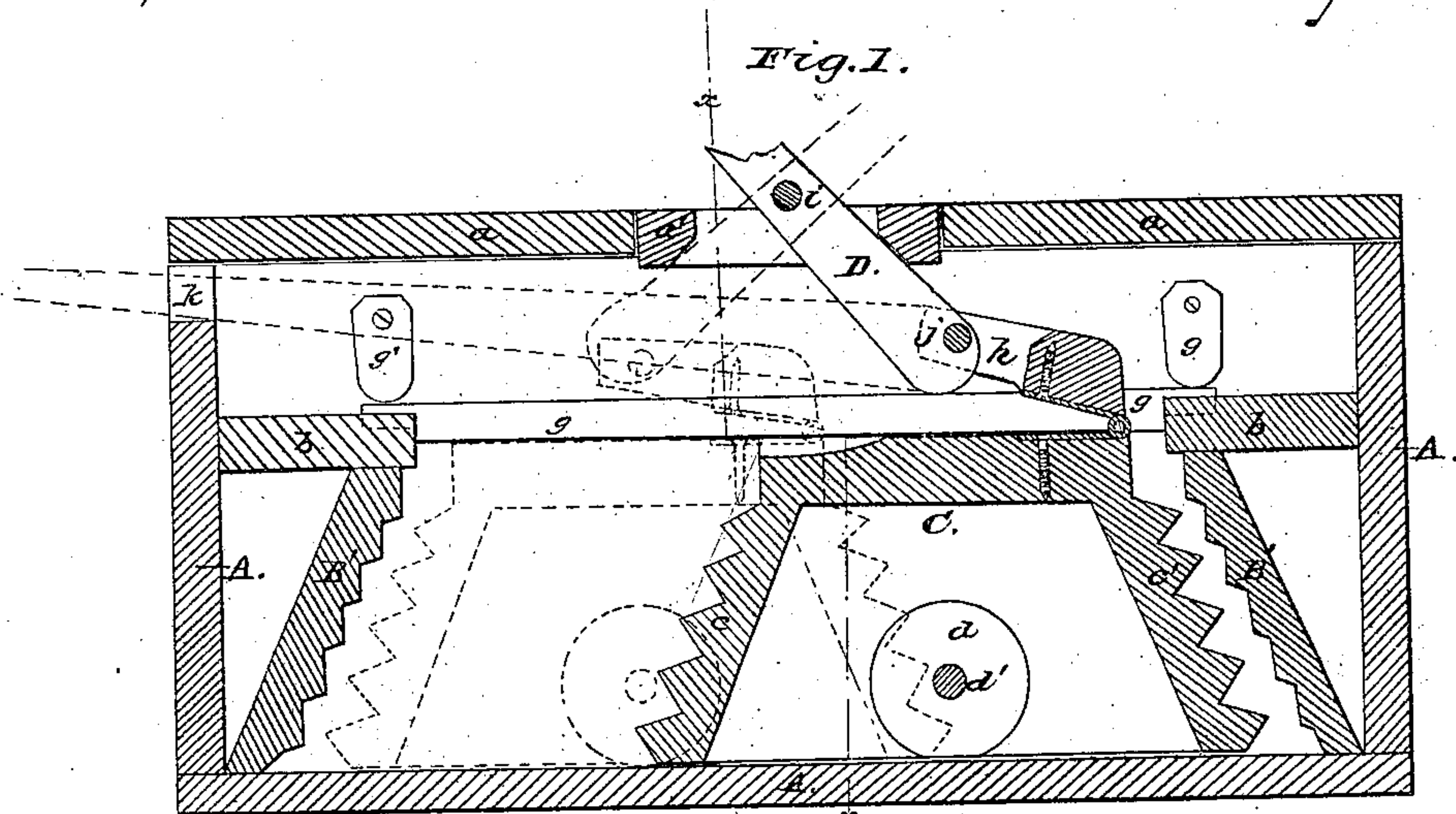


*O. Baldwin,*

*Washing Machine,*

*N<sup>o</sup> 42,826.*

*Patented May 24, 1864.*



*Witnesses:*  
*R. G. Campbell*  
*O. Schaefer*

*Inventor,*  
*Oren Baldwin*  
*by his atty's*  
*Mason, Tenner, & Hummer*



# UNITED STATES PATENT OFFICE.

OREN BALDWIN, OF SUMMITVILLE, IOWA.

## IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 42,826, dated May 24, 1864.

*To all whom it may concern:*

Be it known that I, OREN BALDWIN, of Summitville, county of Lee, and State of Iowa, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal section taken in a vertical plane through the center of my machine. Fig. 2 is a top view of the machine with the two end covers removed. Fig. 3 is a transverse section taken in the course indicated by blue line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

This invention and improvement relates to that class of washing machines wherein an alternate reciprocating dasher is employed for the purpose of rolling the articles and heating or squeezing the dirt out of them.

The invention consists in certain improvements in constructing, arranging, and operating a reciprocating dasher, whereby many additional advantages are obtained, which will be seen from the following description.

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

A represents an oblong rectangular box, having a flat horizontal bottom, and provided with covers *a a'*, two of which are hinged, while the intermediate one, *a'*, is affixed to the top of the box or tub by means of screws, or in any other convenient manner. Within this box A, and at its ends, are two inclined stepped surfaces or wash-boards, B B', which are clearly shown in Fig. 1. These wash-boards are stepped or serrated on their exposed surfaces, and they may be perforated or otherwise constructed in any suitable manner. They extend up about two-thirds the height of the box A, and their upper ends are secured to horizontal transverse boards *b b*, which may be used as shelves, if desired. Between these two overhanging wash-boards works the dasher C, the inclined ends or stepped surfaces *c c'* of which are parallel to their respective surfaces B B', as shown in Fig. 1, and the sides of this dasher are perpendicular to the base or bottom of the box A, as shown in

Fig. 3. This reciprocating dasher may be constructed hollow, or in such manner as to receive within it the two rollers or wheels *d d*, upon which it is supported.

A very small space is left between the bottom of the dasher and the surface upon which it rests for the purpose of preventing the articles being washed from working underneath of the dasher, and also for the purpose of making the latter effective at and near the bottom of the box A.

The roller-shaft *d'* is located at an intermediate point between the center of the dasher, the center being the proper position for it; and in order to keep the bottom of the dasher parallel to the bottom of the wash-box at all times, I employ two strips, *g g*, which are supported at their ends by the shelves *b b*, and held down in their places by means of buttons *g' g'*. These two longitudinal strips are arranged in planes parallel to the bottom of the wash-box, and also to the top of the dasher, over which they are held; hence it will be seen that the dasher must move in a rectilinear or horizontal plane from end to end of the wash-box, the two guides *g g* preventing it from rocking on its rollers, which would cause its ends to rub upon the bottom of box A.

Hinged to the top of the dasher C, at one end thereof, is a forked arm, *h*, and between the forks of this arm the lower end of a lever, D, is pivoted, as shown in Figs. 1 and 3. The lever D passes up through an oblong opening, which is made through the central fixed portion, *a'*, of the cover of the wash-box, and to this portion *a'* this lever is pivoted by means of an eyebolt, *i*, which passes transversely through the staples *s s* on top of cover *a'*, as shown in Figs. 2 and 3.

By rocking the upper end or handle of lever D, the dasher can be moved in a right line from end to end of the wash-box with very little expenditure of labor, or if desirable the dasher may be moved by giving a rectilinear reciprocating motion to the lever D—*i. e.*, by pushing and pulling the dasher back and forth. To use the lever D in this manner the pins *i j* are removed, and the lever thus detached from the machine. The lever D is now adjusted in the position indicated in blue lines, Fig. 1, and again pivoted to the short hinged arm *h*. The lever being kept in the

notch *k*, which is cut in the upper edge of the wash-box, the dasher is moved by pushing and pulling the lever back and forth.

In the practical operation of my machine it will be found that there is very little friction occasioned by moving the dasher back and forth on its rollers by means of the vibrating lever *D*, as its bottom surface will always be kept free from the bottom of the wash-box by the guides *g g*. When it is desired to remove the dasher from the machine for cleaning the box *A*, the guides *g g* are easily removed by turning up the buttons *g' g'* and the fixed portion *a'* of the cover is detached from the machine.

If thought advisable, two small rollers may be added to the dasher. One set being arranged at each end thereof will prevent any chance of friction at these points.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. The rubber or pounder *C*, made hollow, mounted on rollers *d d*, and constructed with inclined washing or pounding surfaces *c c'*, in combination with the inclined ends *B B'*, and detachable guides *g g*, all in the manner and for the purpose herein described.

2. The arrangement of the lever *D*, hinged arm *h*, dasher or pounder *C d*, and devices *a' k*, substantially in the manner and for the purpose described.

3. The combination of vibrating lever *D*, hinged arm *h*, dasher *C*, rollers *d d*, and guides *g g*, substantially as and for the purposes described.

OREN BALDWIN.

Witnesses:

J. T. WRIGHT,  
JACOB REMOALD.