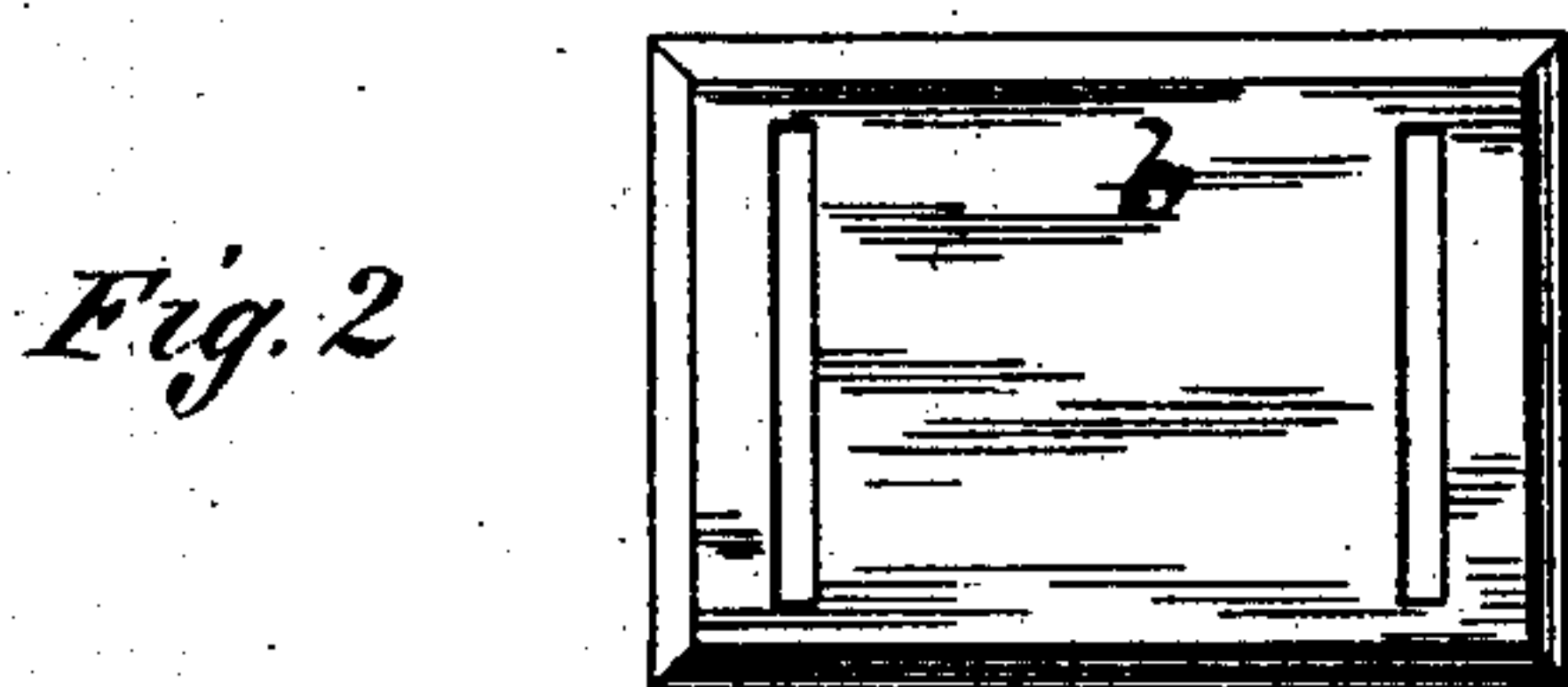
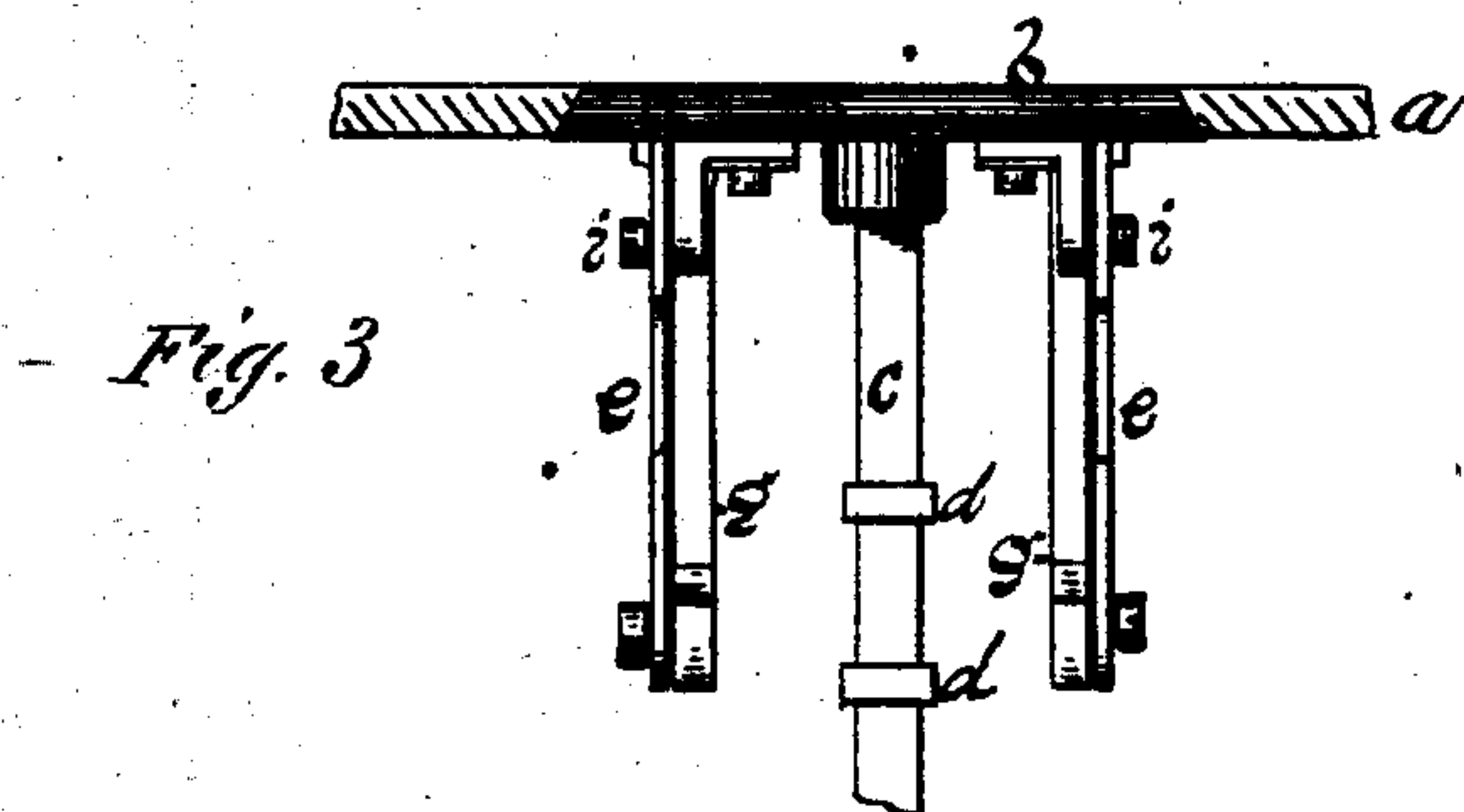
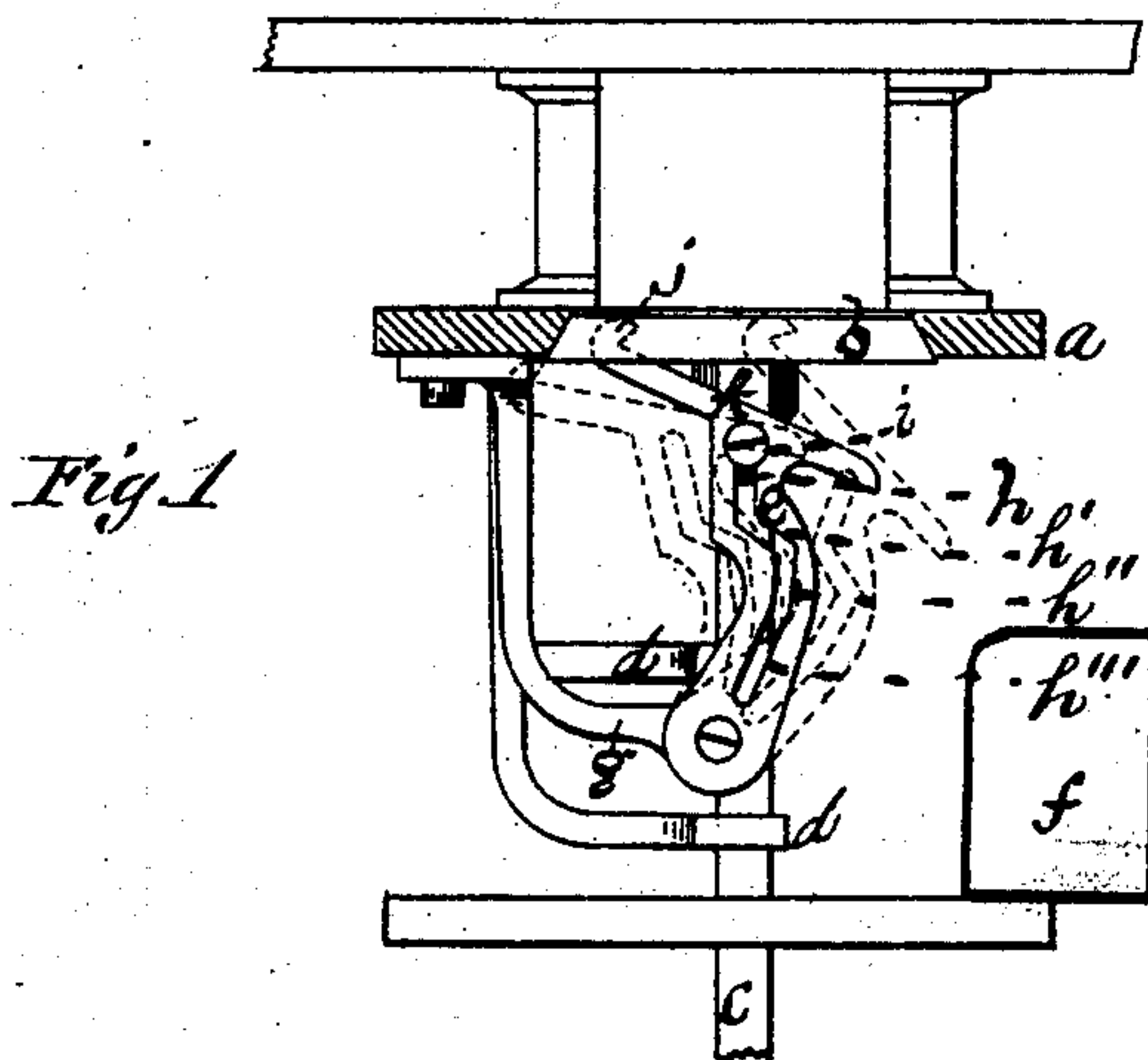


(No Model.)

G. H. PLAICE, dec'd,  
D. A. PLAICE, Administratrix.  
Envelope Machine.

No. 237,125.

Patented Feb. 1, 1881.



Witnesses.

Andell R. Curtis  
James J. Greene

Administratrix  
of the Inventor

Dora A. Plaise  
By W. E. Simonds  
Atty



# UNITED STATES PATENT OFFICE.

DORA A. PLAICE, OF SPRINGFIELD, MASSACHUSETTS, ADMINISTRATRIX OF  
GEORGE H. PLAICE, DECEASED.

## ENVELOPE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 237,125, dated February 1, 1881.

Application filed October 4, 1880. (No model.)

*To all whom it may concern:*

Be it known that GEORGE H. PLAICE, deceased, late of Springfield, in the county of Hampden and State of Massachusetts, invented a certain new and useful Improvement in an Attachment to Envelope-Making Machines, commonly called a "knock-off," of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is an end view of the attachment, with neighboring parts of an envelope-making machine. The full lines show the mechanism of the attachment in the position to receive an envelope. The dotted lines show the mechanism in the position of delivering an envelope. Fig. 2 is a top view of the attachment only. Fig. 3 is a front view of the attachment only.

The office of this attachment is to receive an envelope in a horizontal position and to carry it a little distance forward, and deliver it in a vertical or nearly vertical position.

The letter *a* denotes the table-frame of the attachment. The parts above this are neighboring parts of the envelope-making machine.

The letter *b* denotes the vertically-reciprocating table, on which the envelopes are delivered, one by one, in a horizontal position, while the table is at the top of its vertical play.

The letter *c* denotes a guide-rod appurtenant to the table, through which the vertical movement is given to the table. It is held in a vertical position by sockets *d*, and it holds and supports the table, as well as gives it the vertical reciprocating motion.

The letters *e* denote two fingers, of which there may be one or more, but preferably two, which have at their free ends a motion transversely of the table, for the purpose of forcing the envelope transversely or sidewise off the table into the receptacle *f*. These fingers are pivoted at their lower ends on the supporting-arms *g*, and have their peculiar motions

given as follows: These fingers are mortised longitudinally, each of them, by mortise *h h' h'' h'''*, in which plays the pin *i*, carried on a lug projecting from the table, and the travel of the pin in this mortise gives the finger its movement. The upper part of the mortise *h* is practically vertical, so that while the pin *i* is traversing it the finger remains practically stationary; then the next part of the mortise *h'* runs obliquely forward, so that the pin, in traversing it, moves the finger backward. The next part of the mortise, *h''*, is vertical, and the finger remains stationary while the pin traverses it. The lowest and the last part of the mortise, *h'''*, runs obliquely backward, so that the pin, in traversing it, moves the finger forward. When the pin moves upward all these movements are, of course, reversed.

The fingers *e* carry hooks *j* to securely catch upon the edge of the envelope, and the upper ends of these carry the oblique surfaces *k*, to change the position of the envelope from a horizontal to an oblique.

The table is mortised for the passage of the fingers *e*, or they might come up at the ends of the table.

The operation of the device is that an envelope being delivered upon the table the table moves downward, leaving the envelope upon the ends of the fingers, which carry it forward and drop it into the receptacle *f* in a practically vertical position.

I claim as the invention of the said GEORGE H. PLAICE—

The combination of the mortised and vertically-reciprocating table *b*, carrying the pins *i*, with the pivoted and reciprocating fingers *e*, having the mortises *h h' h'' h'''*, the hooks *j*, and the obliqued tops *k*, all as described.

DORA A. PLAICE,

*Administratrix of the estate of George H. Plaice, deceased.*

Witnesses:

HENRY W. BOSWORTH,  
MERRICK L. STEBBINS.