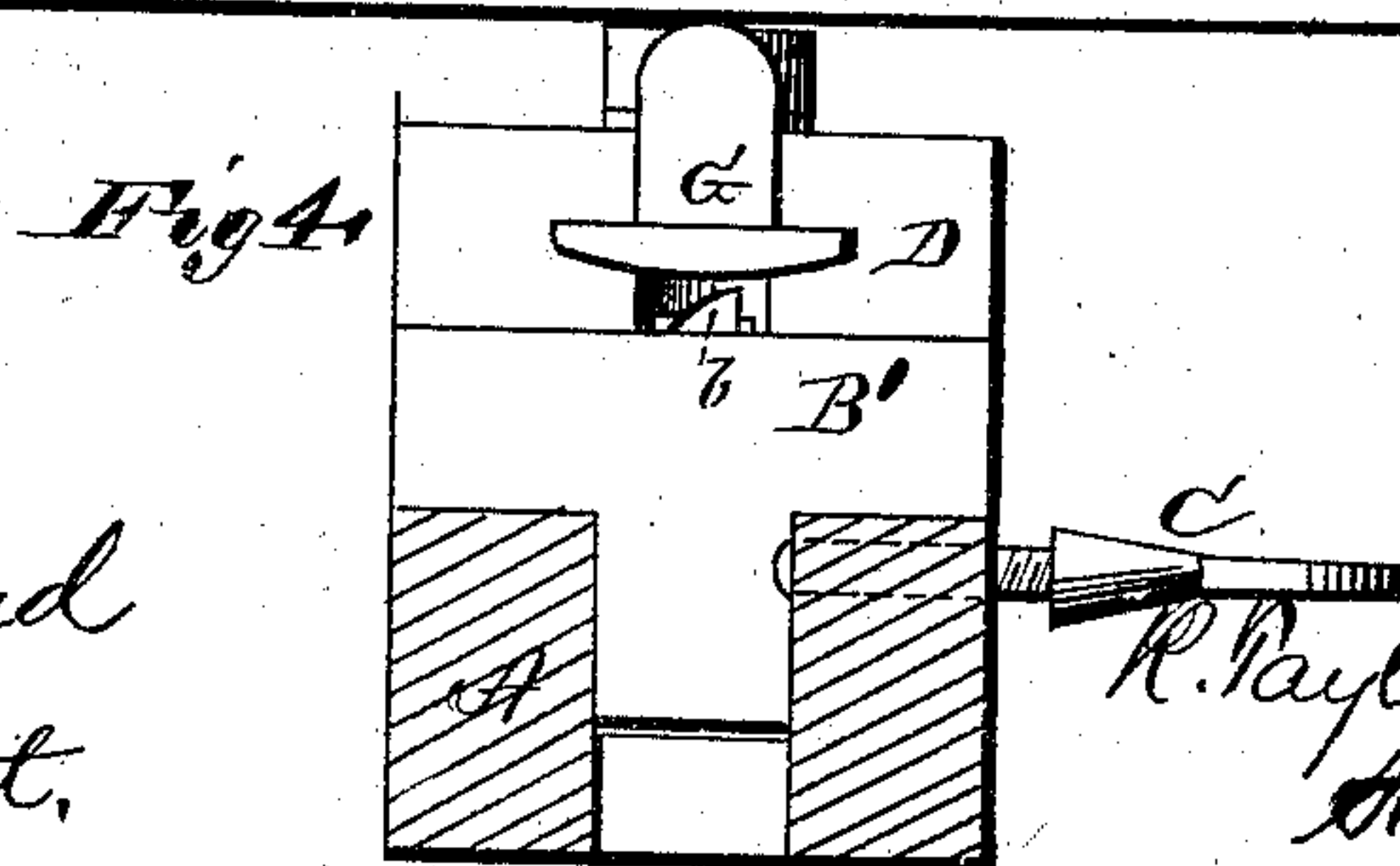
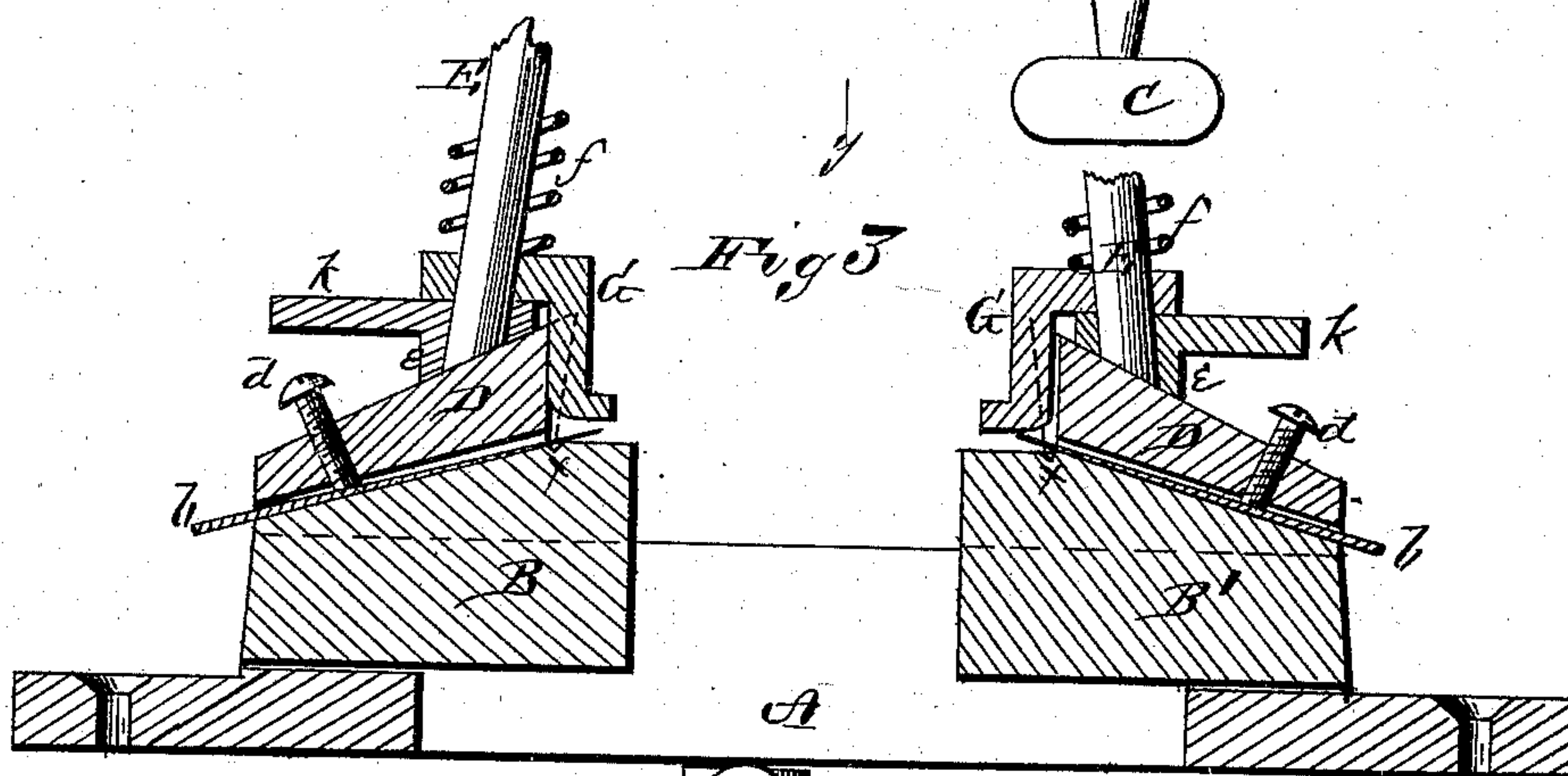
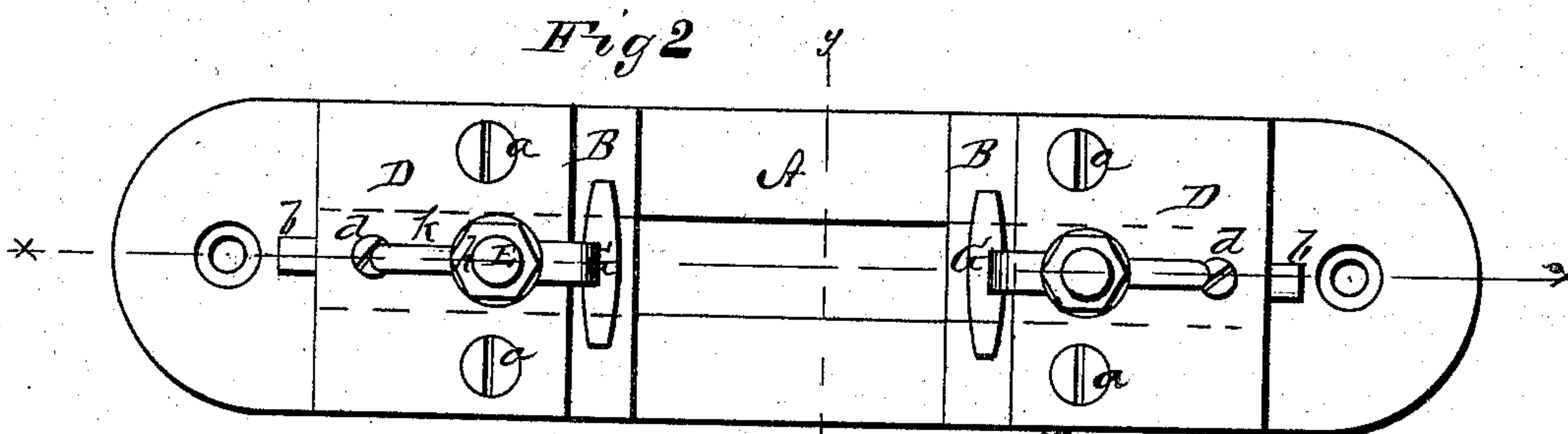
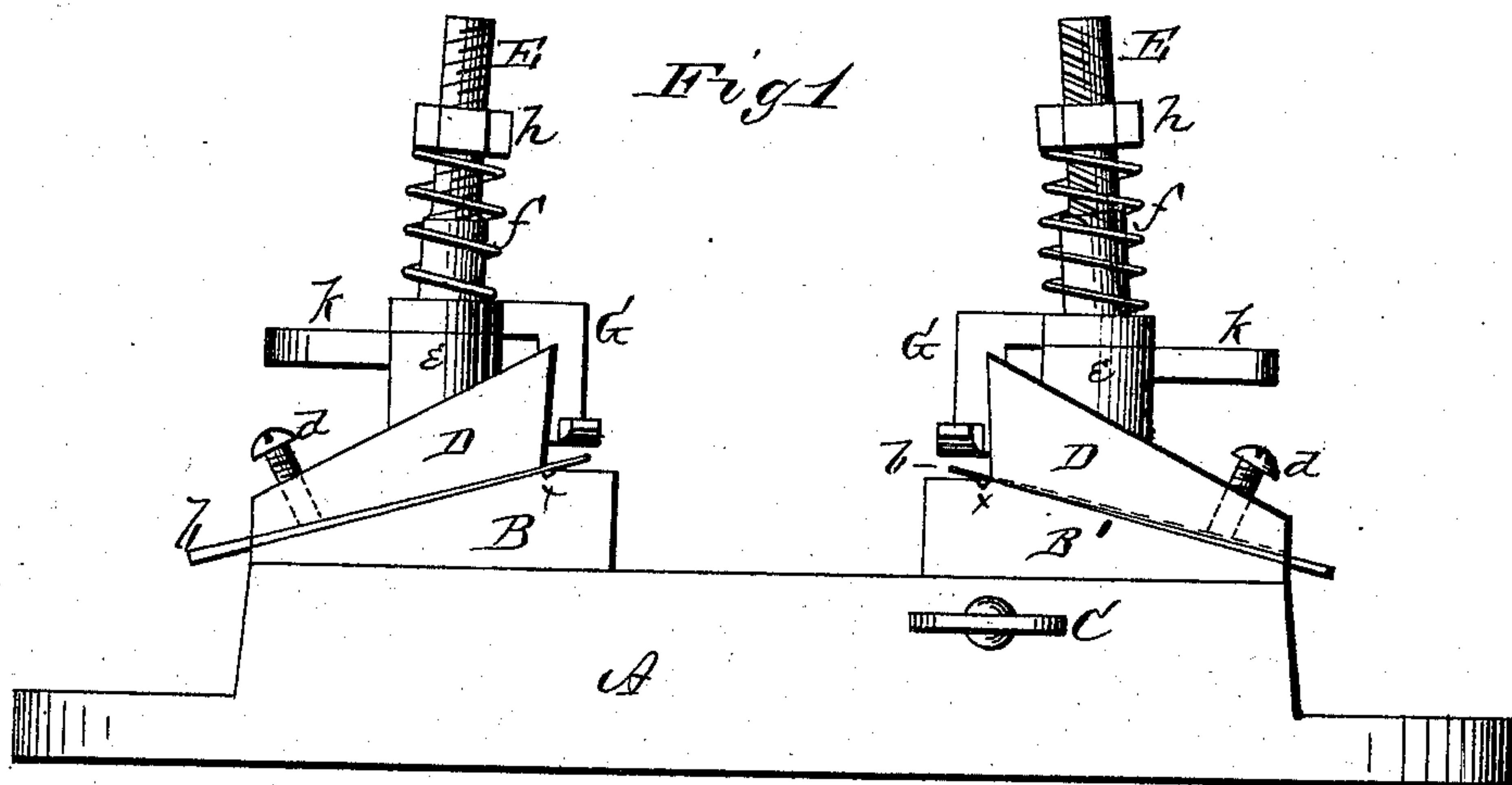


R. TAYLOR & J. J. WOOD.  
LEATHER-CHANNELING MACHINE.

No. 173,687.

Patented Feb. 15, 1876.



WITNESSES  
F. L. Ourand  
C. L. Evert,

INVENTOR

R. Taylor and J. J. Wood  
Alexander Mason  
Attorneys



# UNITED STATES PATENT OFFICE.

RALPH TAYLOR AND JEROME J. WOOD, OF HUDSON, MICHIGAN.

## IMPROVEMENT IN LEATHER-CHANNELING MACHINES.

Specification forming part of Letters Patent No. **173,687**, dated February 15, 1876; application filed August 14, 1875.

*To all whom it may concern:*

Be it known that we, RALPH TAYLOR and JEROME J. WOOD, of Hudson, in the county of Lenawee and in the State of Michigan, have invented certain new and useful Improvements in Leather-Channeling Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

Our invention relates to machines for channeling leather for round work; and it consists in a machine for channeling both sides at the same time, whatever width the leather may be, and also in the construction and combination of parts, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a plan view, of our machine. Fig. 3 is a longitudinal vertical section of the same through the line *xx*, Fig. 2; and Fig. 4 is a transverse vertical section through the line *yy*, Fig. 2.

A represents the bed of our machine, formed with a longitudinal slot, as shown in Fig. 4, for the reception of the two heads B B'. One of these heads, B, is stationary in the bed-plate, while the other head, B', is movable therein to and from the stationary head, and fastened at any point desired by means of a set-screw, C. The top of each head B is made level along the inner edge on top, while the remainder of the upper surface is inclined downward, as shown. On this inclined part of the head is secured a plate, D, fastened thereto by screws *a a*. In the center of this plate, on the under side, is made a longitudinal groove, in which is placed a knife, *b*, held by means of a set-screw, *d*. This knife projects in an inclined position out over the level part of the head, as shown particularly in Fig. 3. From the plate D, near the inner end, projects a vertical rod, E, on which is first placed an inclined collar, *e*, and on top of the same is placed the foot G, which extends down in front of the plate D above the point of the knife. Above

the foot G on the rod E is placed a spiral spring, *f*, and a nut, *h*, is then screwed on the end of the rod, to regulate the tension of said spring on the foot. The adjustable head B', having been moved the desired distance from the stationary head, according to the width of the leather to be channeled, is fastened by means of the set-screw C. The leather is then placed on the flat portions of the heads B B, against the front ends of the plates D D, and by being drawn through between them the knives *b b* cut the channels in the two edges of the leather at the same time. Under the point of the knife in each head is a groove, *x*, running across the head to receive the edge of the leather and keep the channel open. The leather, as it passes through the machine, is held by the feet G G, which are raised, when desired, by means of a handle or lever, *k*, projecting from the collar *e*, so as to turn the same on the inclined plate D.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the head B, grooved plate D, channeling-knife *b*, and set-screw *d*, substantially as and for the purposes herein set forth.

2. The combination of the inclined plate D, with rod E, collar *e*, with handle *k*, foot G, spring *f*, and nut *h*, substantially as and for the purposes herein set forth.

3. The head B, provided with the groove *x* upon its upper surface, for the purpose described.

4. The combination, with the slotted base A, of the stationary head B, with plate D, adjustable channeling-knife *b*, and yielding foot G, and the movable head B', with similar plate, knife, and foot, all constructed substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 16th day of June, 1875.

RALPH TAYLOR,  
JEROME J. WOOD.

Witnesses:

PERRY SHUMWAY,  
FRED. COWAGEN.