

JOHN N. BAIRD.

No. 126,668.

Patented May 14, 1872.

Fig. 1.

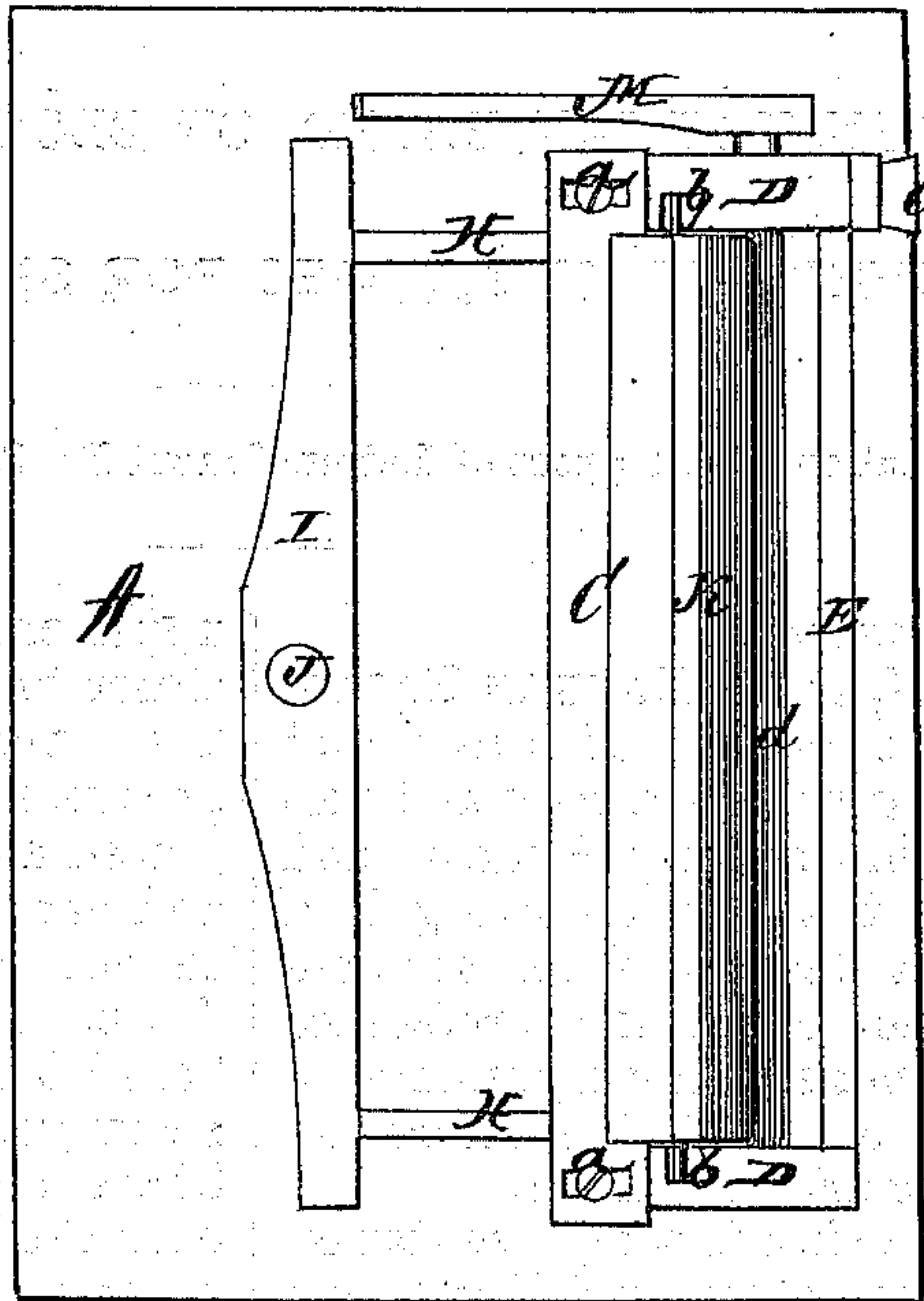
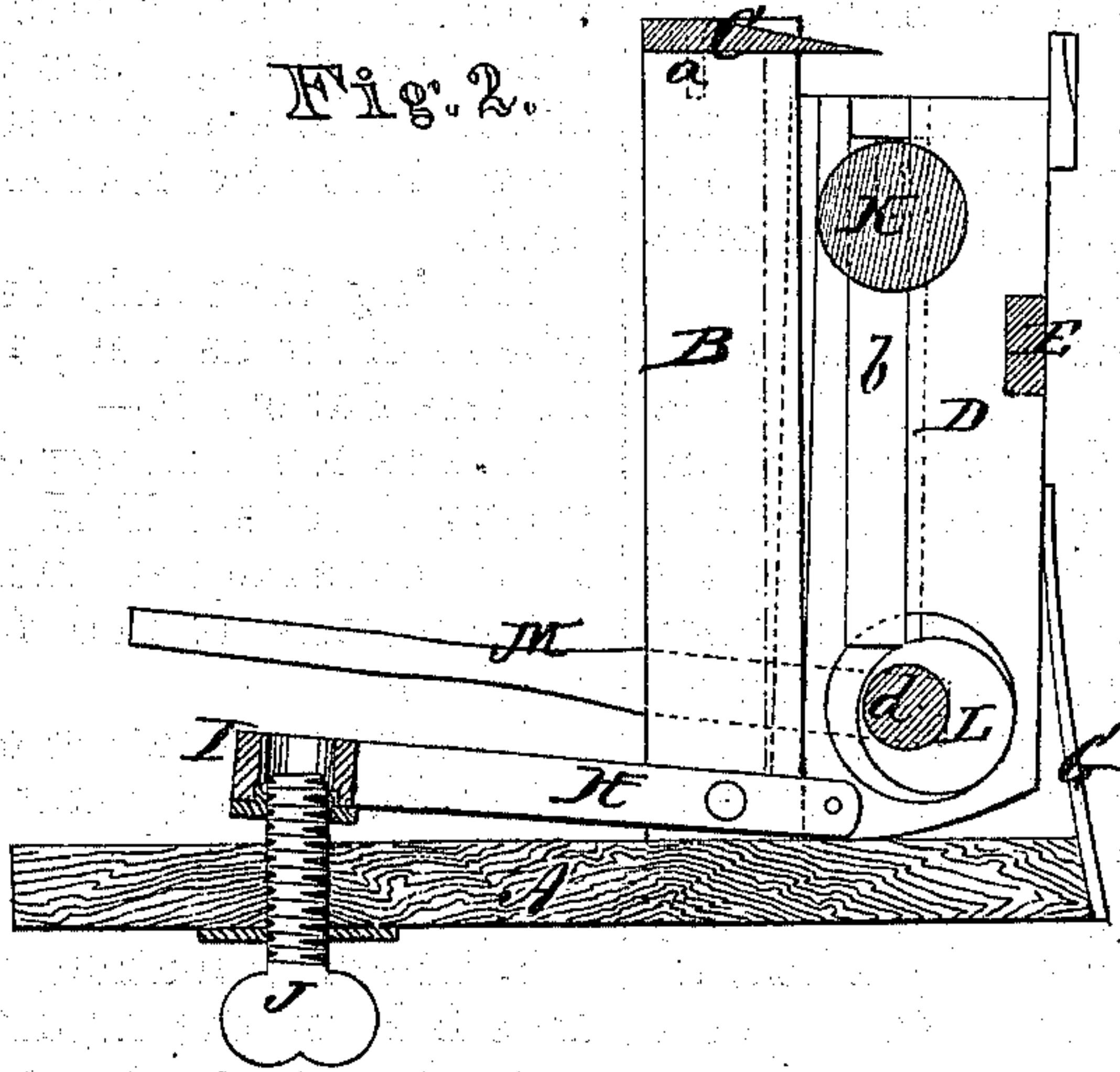


Fig. 2.



Witnesses:

Chas. Kenyon
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JOHN NATHAN BAIRD, OF BLOOMFIELD, IOWA.

IMPROVEMENT IN GAUGES FOR SPLITTING LEATHER.

Specification forming part of Letters Patent No. 126,668, dated May 14, 1872.

To all whom it may concern:

Be it known that I, JOHN NATHAN BAIRD, of Bloomfield, in the county of Davis and State of Iowa, have invented a new and valuable Improvement in Splitting-Gauges; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my machine in plan view, and Fig. 2 is a transverse vertical section of the same.

The nature of my invention consists in the construction and arrangement of a "gauge for splitting leather," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation.

A represents the bed-piece of my machine, upon which are two standards, B B. On the upper ends of these standards, connecting the two, is placed the knife C, the ends of which are slotted, as shown in Fig. 1. Screws *a a* are passed through these slots into the upper ends of the standards, thus securing the knife, and at the same time rendering the knife adjustable. The rear edges of the standards B B are grooved vertically, and in said grooves are inserted tongues formed on the sliding pieces D D, which are connected by a bar, E, forming an up-and-down sliding frame. This frame is held against the standards by means of one or two springs, G, as shown in Fig. 2, and raised or lowered by means of two levers, H H, pivoted, one on the inner side of each standard. The front ends of these levers are connected by a cross-bar, I, while the rear ends are pivoted, one to each slide D. A screw, J, passes through the bed-piece A into the cross-bar I, by which means said bar is raised or lowered at will, thereby bringing the

upper ends of the slides D D further from or closer to the knife C, as may be desired. On the inner side of each slide D is a vertical groove, near the rear edge, in which groove is placed a smaller sliding bar, *b*. This groove and bar are made dovetailed, so that the bar cannot fall out, but will slide freely up and down. In the upper ends of the two sliding bars *b b* the journals of a roller, K, have their bearings. The lower ends of these sliding bars extend down into circular recesses formed near the lower ends of the slides D D on their inner sides. Through the center of these recesses passes a shaft, *d*, having a cam, L, at each end in each of said recesses. Upon one end of this shaft is a lever, M, by means of which the shaft is turned, causing the cams to raise the sliding bars *b b* independent of the slides D D, and thereby bring the roller K, over which the leather passes, closer to the knife.

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

1. The combination of the sliding frame D, spring G, levers H H, cross-bar I, and screw J, all constructed and arranged to operate substantially as and for the purposes herein set forth.

2. The combination of the sliding bars *b b*, roller K, shaft *d*, cams L L, and lever M, all constructed and arranged to operate substantially as and for the purposes herein set forth.

3. The combination, with the grooved standards B B, of the adjustable knife C and the frame D, constructed and arranged to operate substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN NATHAN BAIRD.

Witnesses:

H. H. JONES,
P. P. SELLER.