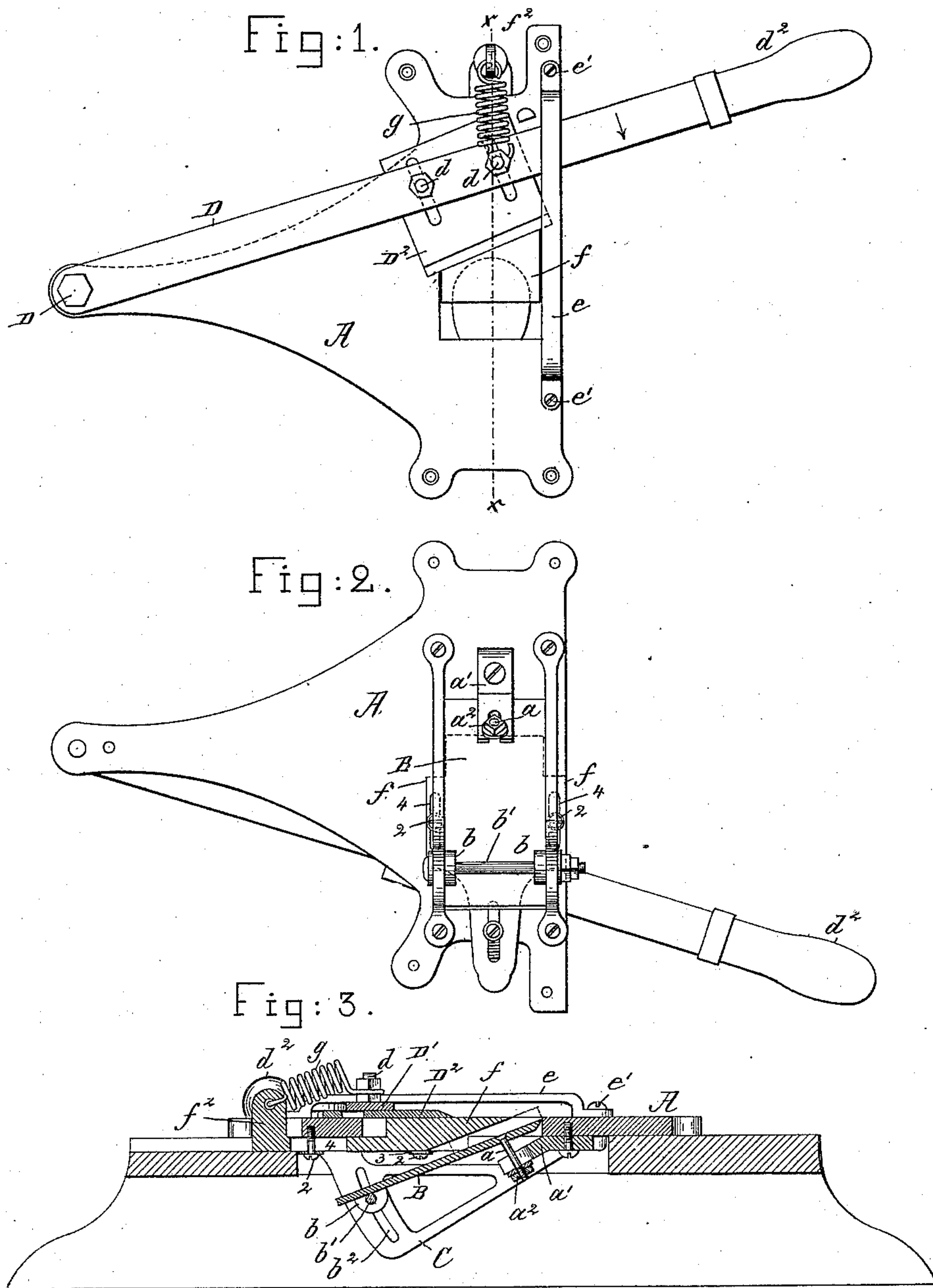


(No Model.)

R. BOWDEN.
MACHINE FOR SKIVING LEATHER.

No. 313,167.

Patented Mar. 3, 1885.



Witnesses.

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UNITED STATES PATENT OFFICE.

RUSSELL BOWDEN, OF MARBLEHEAD, MASSACHUSETTS.

MACHINE FOR SKIVING LEATHER.

SPECIFICATION forming part of Letters Patent No. 313,167, dated March 3, 1885.

Application filed September 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL BOWDEN, of Marblehead, county of Essex, State of Massachusetts, have invented an Improvement in Machines for Skiving Leather, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the construction of a machine for skiving leather; but it is more especially adapted for use in skiving ordinary heel-lifts and half-soles, and also "spring-lifts," so called, the latter being intended for use in the manufacture of what is known as "spring-heel shoes" for children. In this latter class of shoes one or more lifts are placed between the heel portion or extension of the outer sole and the inner sole. To this end it is necessary to skive the forward portion of such inserted spring-lifts, or to taper them to a feather-edge, to enable a tight joint to be made and to provide a well-made shoe.

With my invention I am enabled to easily and quickly skive leather to a feather-edge, so that the cut will be clear, sharp, and regular.

The invention consists, primarily, of the combination, with a slotted bed or support and a knife adapted to be moved over the bed, of a table inclined with relation to the bed or support, and having one end projecting into the slot of said bed, and clamping mechanism adapted to retain one or more lifts on said inclined table so that a portion of the lift or lifts will project through the seat of the bed and above the plane of movement of the cutting-edge of the knife, substantially as hereinafter fully described, and particularly pointed out in the claims.

Figure 1 shows in plan view a leather-skiving machine embodying my invention, and Fig. 2 is an under side view thereof, and Fig. 3 is a longitudinal vertical section of the same, shown as supported upon a suitable frame, the section being in the line x .

The bed or support A is provided with an oblong slot, in which is placed a table, B, the upper beveled end of which is held in the said slot by a bolt, a , extended through slots in a lug, a' , where the end of the lug has applied to it suitable nuts, a^2 . The rear end of the bed has ears b , that receive a bolt, b' , which

is extended through slots b^2 in the brackets C, depending from the bed A, the end of the bolt having applied to it suitable nuts, c , by which the bolt and consequently the bed may be adjusted in any desired angular position with relation to the surface of the table. The greater the angle of difference between the level of the bed and of the table within a right angle the shorter and steeper the bevel which will be left at the exposed upper end of the lift or other piece of leather after the action of the skiving-knife, to be described. The bed or support A has an extension which receives a pivot or fulcrum pin, D, for the knife-carrying lever D', upon which is adjustably attached the knife D² by bolts d , the said lever having a suitable handle, d^2 , which is preferably extended through a slot left under the arch-piece e , attached to the bed by the screws e' .

The bed or support A, as herein shown, has at its under side three screws or bolts provided with heads and washers of suitable size to serve as supports for the sliding clamp, the under side of which is beveled, the said screws or bolts extending through slots 4 at the opposite side edges of the said clamp and near its rear end. The clamp f , at its rear end, has an upright, f^2 , which is joined by a stiff spiral spring, g , with the knife-carrying lever and, as herein shown, to one of the bolts, d , so that the movement of the knife-carrying lever carries with it the said clamp.

The piece of leather to be skived will be placed upon the inclined table from the front or right-hand end thereof, Fig. 3.

I have supposed that a two-layer spring-heel lift has been so applied to the bed, as shown by dotted lines, the portion which is to be cut from the said lift being left to protrude above the level of the bed or support. The leather having been applied to the bed, the operator will now pull the lever in the direction of the arrow, Fig. 1, which will carry the knife forward, and at the same time the clamp f , which usually occupies a position in advance of the cutting-edge of the knife, is carried forward by the spring d^2 , and is caused to firmly clamp the said leather upon the table just in advance of the arrival of the edge of the knife in contact with the leather, the clamping to prevent any longitudinal move-

ment of the leather while the knife, which is made to sweep over it, cuts or skives from the leather all that portion thereof which is left protruding from the bed A. The spring 5 8 is sufficiently stiff to move the clamp backward as the knife-carrying lever is moved backward. The spring *g* enables the clamp to adapt itself to varying thicknesses of leather.

The leather article having been beveled or 10 skived, and the clamp and knife drawn back, the said article is discharged from the lower end of the table by hand or by the insertion of a second article to be skived.

Heretofore in skiving-machines it has been 15 customary for the knife to enter the edge of the material when commencing to cut the same; but by such plan a feather-edge cannot be properly formed.

I claim—

20 1. In a leather-skiving machine, a slotted bed or support and a knife adapted to be moved over the said bed or support, and an

adjustable inclined table having its forward end arranged in the slot and substantially flush with the plane surface of said bed, combined with a clamp to clamp or retain on such 25 table the material to be cut, as and for the purpose set forth.

2. In a leather-skiving machine, a slotted bed or support, the pivoted knife-lever, and 30 an attached knife adapted to be moved over the surface of the bed as described, and the adjustable table inclined with relation to the bed, one end of the table being arranged in the slot of said bed, combined with the slid- 35 ing clamp to retain the leather to be skived on the inclined table, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RUSSELL BOWDEN.

Witnesses:

G. W. GREGORY,
B. J. NOYES.