# S. & G. F. MOORE.

## Mechanism for Feeding Heel-Stiffeners or Counter-Blanks.

No. 161,811. Patented April 6, 1875.

*Fig. 1.*

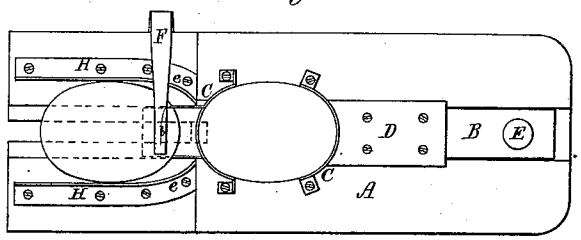



*Fig. 2.*

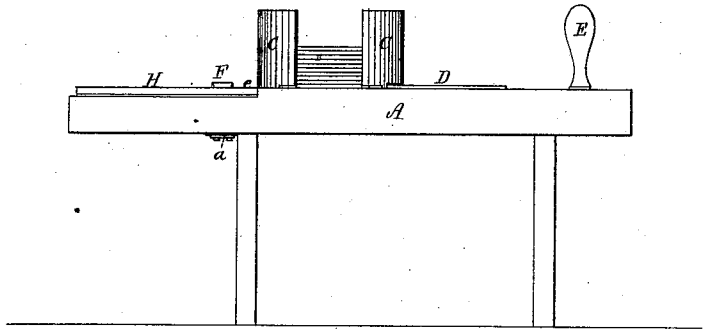



*Fig. 3*

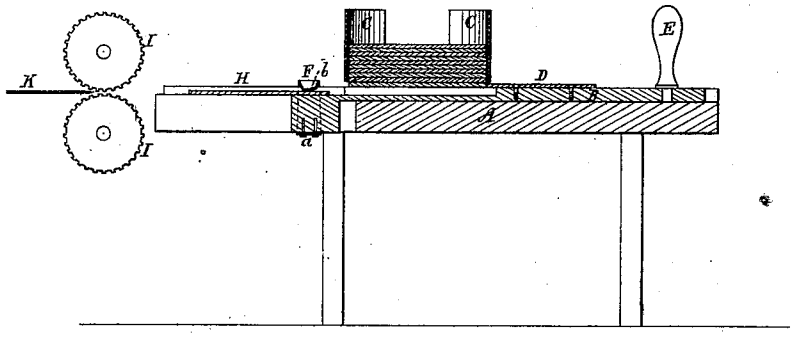
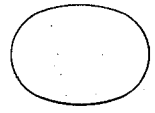



*Fig. 4.*



Witnesses
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# UNITED STATES PATENT OFFICE.

STEPHEN MOORE AND GEORGE F. MOORE, OF SUDBURY, MASS., ASSIGNORS TO STEPHEN MOORE AND HOMER ROGERS, OF SAME PLACE.

## IMPROVEMENT IN MECHANISMS FOR FEEDING HEEL-STIFFENERS OR COUNTER-BLANKS.

Specification forming part of Letters Patent No. **161,811**, dated April 6, 1875; application filed March 15, 1875.

*To all whom it may concern:*

Be it known that we, STEPHEN MOORE and GEORGE F. MOORE, of Sudbury, of the county of Middlesex and State of Massachusetts, have invented a new and useful Mechanism for Feeding Heel-Stiffeners or Counter-Blanks to Mechanism for Dividing and Scarfing them; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Fig. 3 a longitudinal and vertical section, of said feeding mechanism, the latter figure showing its arrangement with two draw-rollers and a slitting-knife.

This machinery is designed to hold and successively feed forward elliptical or other proper shaped heel-stiffener or counter-blanks, in order that each, by means of a pair of rollers or wheels, may be seized and moved up to and against a knife, so as to be split or divided lengthwise or along the middle into two separate parts or counters.

In the drawings, A denotes a bed or table, grooved lengthwise throughout its middle to receive a slide, B, there being arranged upon such bed or table a hopper or two curved standards, C C, of suitable form to receive a pack or pile of the blanks, a top view of one of which is shown in Fig. 4. The slider has a discharger or plate, D, which projects above the surface of the table a distance about equal to the thickness of a blank. Furthermore, there is fixed to the slide B, at its rear, a handle, E, and at its front a bow-spring, F, the lower part *a* of the spring only being fastened to the slide B. This spring passes from underneath the table to and over the top thereof, and rests upon the upper surface of the slider. The part of it over the slider is inclined or provided with an inclined lip, *b*, turned up on its inner edge. In advance of the hopper there are applied to the table two guides, H H, which are parallel in part, but curve inward toward each other near the hopper. The seizing-rolls are represented at I I and the slitting-knife at K. The upper edges of the guides H H are on a level with that part of the top of the table upon which the hopper is placed, the portion of the upper surface of the table on which said guides are fixed being somewhat below the bottom of the hopper.

In operating the mechanism, an attendant, having hold of the handle of the slide B, is to impart to such slide a reciprocating rectilinear motion longitudinally. During each forward movement of the slide the lowermost blank of the pile in the hopper will be forced forward out of the hopper, and into the space between the guides H H. During the backward movement of the slide the blank will be met by the presser or bow spring F, and, by it, will be moved back between and against the curved parts *e e* of the guides, so as to be adjusted by them, with its medial line directly over and in a vertical plane with the medial line of the slide. In the meantime the spring will be drawn back upon and will ride over and press the blank down upon the slide, and hold it thereto while the slide may be next advanced. During the said next forward movement of the slide not only will the said blank be advanced by it and delivered to the rolls to be moved by them up to and against the knife, so as to be split by it, but another blank will be removed from the lower part of the pile. This blank, in its turn, will be forced back between the guides by the presser, and, after having been duly adjusted by them, it will be moved forward into the bite of the rolls by the said presser. Thus, during each forward movement of the slide, two blanks will be advanced by it simultaneously—one into the space between the guides and the other into the bite of the rollers.

We claim as our invention—

The combination of the slide B, provided with the plate D, and the spring or presser F with the table A, provided with the hopper C C and the guides H H, all substantially as and for the purpose described.

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Witnesses:
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