(No Model.)

J. E. JACKSON.

SOLE CHANNELING MACHINE.

No. 321,032. Patented June 30, 1885.

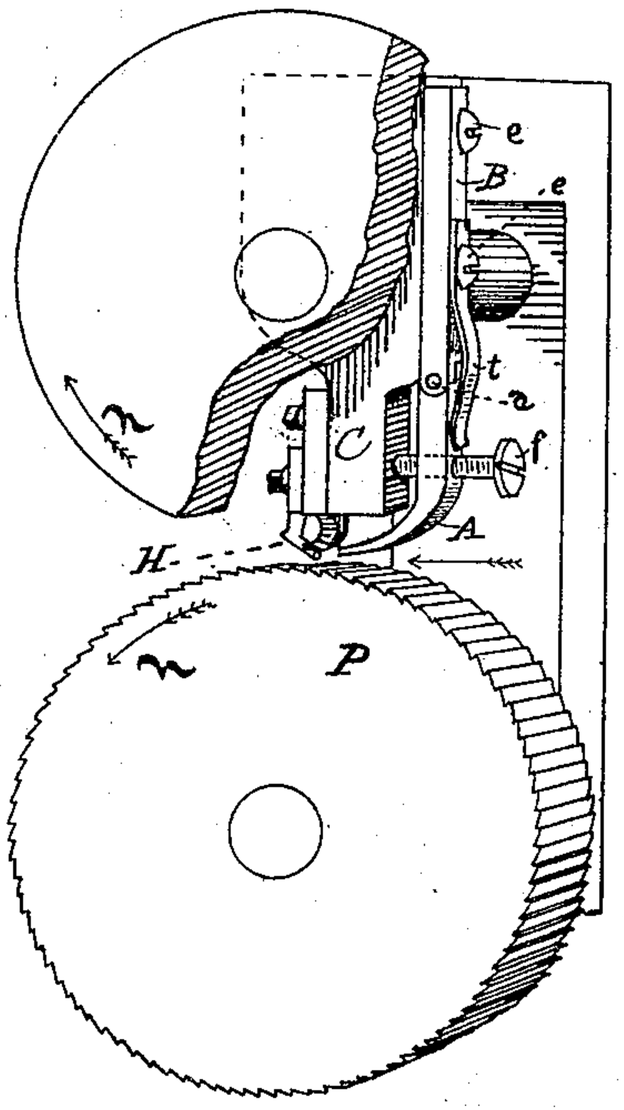

Fig. 2

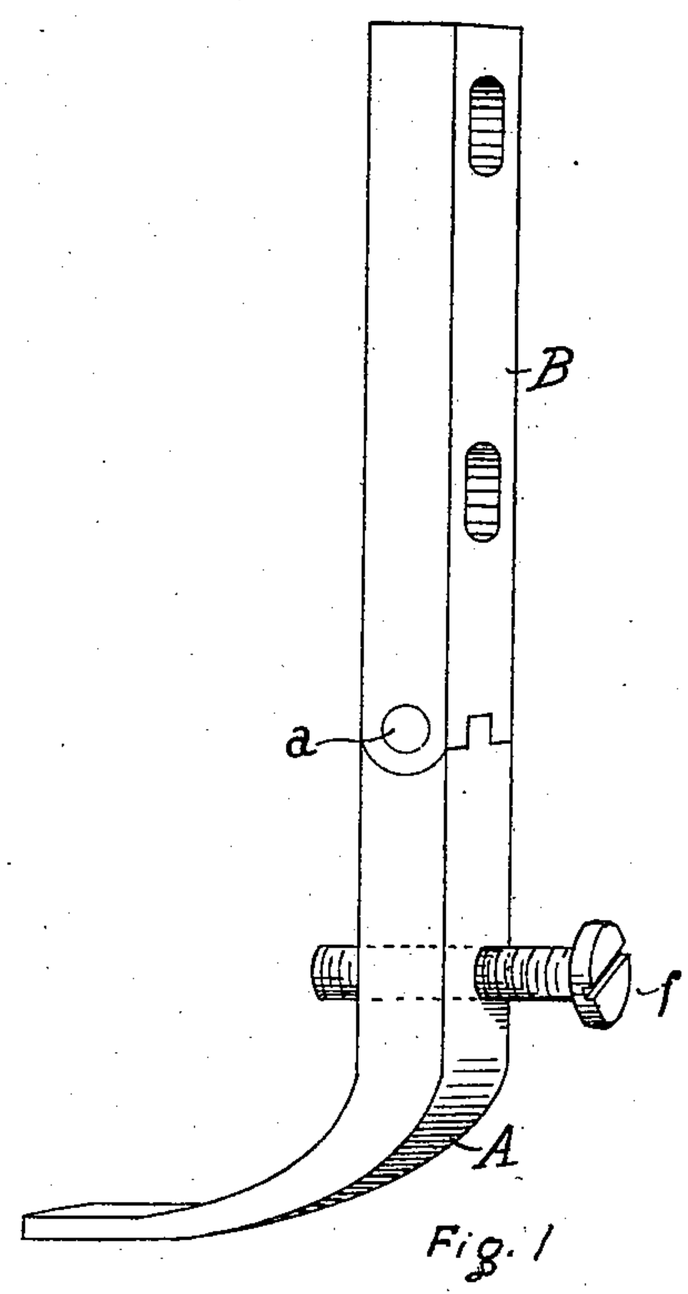

Fig. 1

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UNITED STATES PATENT OFFICE.

JAMES E. JACKSON, OF LYNN, MASSACHUSETTS.

SOLE-CHANNELING MACHINE.

SPECIFICATION forming part of Letters Patent No. 321,032, dated June 30, 1885.

Application filed June 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. JACKSON, of Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented a novel and useful Improvement in Sole-Channeling Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to sole-channeling machines; and it has for its object to obviate the difficulty heretofore encountered in such machines after long use by reason of the channeling-knife becoming worn away and out of the proper relation to its fender or foot; and this invention consists in providing a foot or fender that permits of ready adjustment to and from the channeling-knife to compensate for the wear thereof, and in certain details of construction, all conducive to the main object as stated, and to be hereinafter more fully and specifically described.

In the accompanying drawings, Figure 1 is a perspective view of the fender-foot, and fully illustrates the construction thereof in detail. Fig. 2 is an end view of the machine in perspective, with some of the parts broken away to more clearly show the arrangement of the various parts.

The machine with which this fender-foot is intended to be used is fully described in Letters Patent of the United States No. 42,211, No. 42,237, No. 43,923, No. 68,094, and No. 60,807, and is well known to those persons skilled in the art to which it pertains. It will not therefore be again described in this specification, except so far as it is necessary to do in order to explain the combination and use of my adjustable fender-foot in connection therewith.

The mode of constructing my improved fender-foot is fully illustrated in Fig. 1 of the accompanying drawings, by reference to which it will be observed that the foot A and leg portion B are made in separate pieces and jointed together at *d*, and in this respect said fender-foot differs from the ordinary fender-foot, in which the said leg and foot are made in one and the same piece.

The fender-foot constructed as described, and as shown in Fig. 1 of the drawings, is combined with the machine (see Fig. 2) in the same manner as when constructed in one piece, as heretofore—that is, by means of screws *e e*, which clamp and hold the leg portion B tightly and securely against the machine beam or block C. The piece B in this way is utilized, first, to hold the foot A in position, and, secondly, as a binder to brace the machine and hold more firmly in position certain other parts of the machine adjacent to the block C, and not shown in the accompanying drawings. To this end I construct the piece or leg portion B in every respect the same as that portion of the foot now and as heretofore in use is constructed. The foot A is extended downward and forward toward the channeling-knife H, with the distance between the two—that is, between the edge of the knife and the foot A—sufficient to permit the knife to enter the leather and form the channel in the usual way. This adjustment and position of the foot relatively to the knife H is the same as is the ordinary relation of these members in the machines now commonly used. But with a foot formed as heretofore—that is, in one piece with the leg portion B—no provision is made to permit the foot to be advanced to compensate for the wearing away of the knife, and thus to maintain a constant and proper relation between these two members, and to provide for such adjustment is the main object of my present invention. To this end I construct the device in two parts, as before described. The leg portion B, I connect firmly to the block C, and thereby obtain all the advantages of this portion of the device to stay the machine, and further to support the foot portion A, while the joint *d* permits the foot to be moved forward and backward as occasion requires it, in order to compensate for the wearing of the knife H, and thus maintain the proper relation between these two members.

It will be understood that the sole to be channeled is fed through the machine in the usual way—that is, in the direction indicated by the arrow N. The foot A operates in the usual manner to keep the sole down upon the feed-wheel P and in proper relation to the channeling-knife H. To prevent the channeling-knife from being carried with the sole too far I allow the screw *f* to bear its end against the machine-frame, as indicated. The projection of this screw determines the distance of the foot A from the channeling-knife, and this distance may be readily raised by an obvious turn

of the screw. The foot is prevented from moving backward by means of the spring *t*, which has one end under the screw *e*, and bears its opposite end upon the foot, as indicated, thereby keeping the foot pressed forward, and the screw *f* bearing upon the machine-frame, as described, and illustrated in Fig. 2.

It will be understood that whenever the foot A gets worn it may be easily detached from the leg portion B and a new one substituted in its place.

What I claim, and desire to secure by Letters Patent, is—

1. In a channeling-machine of substantially the construction described, the combination of a channeling-knife, H, and a fender-foot, A, said foot being adapted to permit of horizontal adjustment toward the knife, substantially as and for the purposes stated.

2. In a channeling-machine of substantially the construction described, the fender-foot composed of leg part B and foot part A, said leg part B being secured to the machine and supporting the part A, substantially as described, and the foot part A being adapted to permit of independent adjustment toward and from the channeling-knife, as and for the purposes stated.

3. In a channeling-machine of substantially the construction described, in combination with the fender-foot constructed in two pieces or parts, as set forth, the spring *t* and screw *f*, arranged to operate substantially as and for the purposes stated.

4. As a new article of manufacture, a fender-foot for channeling-machines, composed of the leg portion B and the foot portion A, formed in separate parts and united together by a joint, *d*, substantially as and for the purposes described.

Signed at Lynn, Massachusetts, in presence of two witnesses.

JAMES E. JACKSON.

Witnesses:

C. B. TUTTLE,

C. C. TUTTLE.