(No Model.)

S. M. CUTTER.

HORN OR STOCK SUPPORT FOR PEGGING MACHINES.

No. 557,769. Patented Apr. 7, 1896.

Fig. 1.

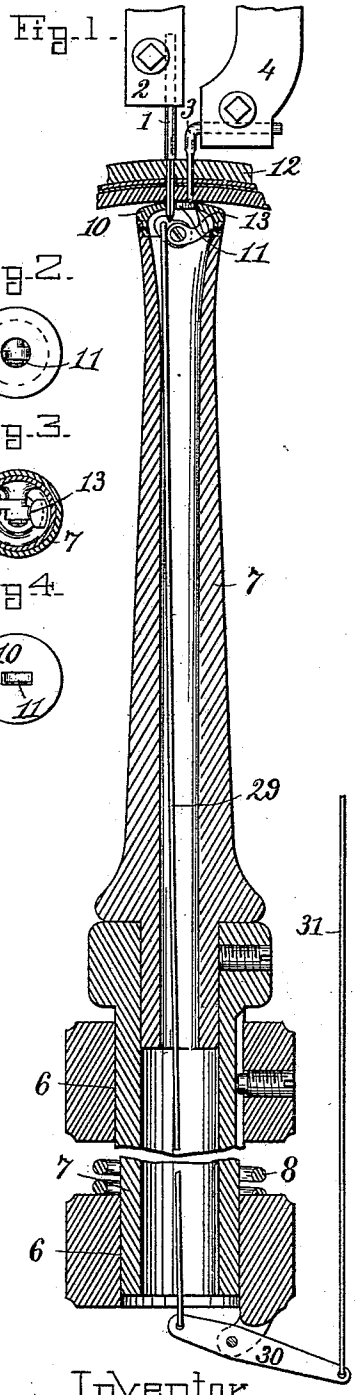


Fig. 2.

Fig. 3.

Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

SOLOMON M. CUTTER, OF BOSTON, MASSACHUSETTS.

HORN OR STOCK-SUPPORT FOR PEGGING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 557,769, dated April 7, 1896.

Application filed August 7, 1895. Serial No. 558,466. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON M. CUTTER, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Horns or Stock-Supports for Pegging-Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in the horns or other stock-supports for pegging-machines, in which the projecting ends of the pegs driven through the soles of boots or shoes are removed by the operation of a cutter within said support, and its object is to more thoroughly remove them than when using the machine now in use.

The invention consists in providing said support with a perforation through which or into which the ends of the pegs are driven, and also in pivotally attaching a cutter within the support in such a manner that it may be turned upon its fulcrum, so as to bring its cutting edge into the perforation in the top of the support and against the projecting peg close to the insole of the boot or shoe.

It further consists in providing means whereby said cutter is operated either automatically by the operation of the machine or by the operator, as is deemed the more practical.

The invention is carried out substantially as illustrated in the accompanying drawings, which form an essential part of this specification, and wherein the invention has been illustrated in connection with a straight non-rotatable horn; but it may be used to equal advantage on a crooked rotatable horn, as will be understood by a further description of the invention.

In the drawings, Figure 1 represents a central vertical section of the horn. Fig. 2 represents a plan view of the top of the horn. Fig. 3 represents a horizontal cross-section of the top of the horn, showing the manner of pivotally attaching the cutter thereto. Fig. 4 represents the plan view of the top of the horn, showing another form of perforation which might be used, if so desired, to receive the cutter when operated.

Similar numerals refer to similar parts wherever they occur on the different parts of the drawings.

Heretofore the projecting ends of the pegs have been removed either by a separate machine from that which drives the pegs, or the horn of the pegging-machine has been provided with a rotatable tip having a cutter attached thereto, which cutter has either been held stationary by suitable mechanism and the peg moved into contact therewith, or the tips have been rotated so as to bring their attached cutters into contact with the pegs. In the use of these machines there has been a liability of bending the peg over in the place of cutting it off when the peg has been fed through the cutter or the cutter brought in contact with the peg, as there has been no support at the back of the peg against which to cut. This invention is designed to overcome such defects and to insure the removal of any and all projecting pegs from the inside of the boot or shoe.

The driver 1, driver-bar 2, awl 3, and awl-bar 4, as well as the frame 5 for the support of the horn, the horn-spindle 6, the horn proper, 7, and the spring 8 to press the horn upward with a yielding pressure may be of any of the suitable and common forms now in use and may be operated by any suitable mechanism without departing from my invention.

The tip 10 of the horn is provided with the perforation 11, which may be either circular, as shown in Fig. 2, rectangular, as shown in Fig. 4, or any other suitable shape, as desired. The horn 7 and horn-spindle 6 are preferably made hollow, as shown, for a purpose, as will be understood by a further description of the invention.

The cutter 13 is pivotally attached to the top of the horn or to the tip thereon in such a manner that its cutting edge is capable of being turned upward into the perforation in the tip and will come against the edge of the perforation or a peg projecting downward into the perforation when the cutter is turned upon its fulcrum by the rod 29, which extends downward through the hollow horn and horn-spindle and is acted upon by the lever 30 and rod 31, as will be fully described hereinafter. The rod 31 is pivotally attached at one end to the lever 30, which lever is fulcrumed to one of the bearings of the frame 5 for the support of the horn-spindle, sub-

stantially as shown. The rod 29 is attached to the opposite end of the lever 30 to where the rod 31 is attached. The rod 29 is attached to the pivoted cutter 13, and it will be seen that said cutter can be turned in either direction on its fulcrum by the operation of the rod 31. The rod 31 may be operated by suitable mechanism connected with the driving-shaft of the pegging-machine, so as to cut off the projecting end of the peg at each revolution of the driving-shaft, or said rod may be operated by the operator independent of the movements of the machine on which the stock-support is used; but I prefer to have it operated automatically from the driving-shaft of the machine.

The description thus far has been when the cutter is used in connection with a straight horn or support; but it will be readily understood that the same cutter might be used on a crooked horn or support if the rod 29 were divided into the required number of short pieces and each piece be connected to the next piece by a suitable bell-crank lever fulcrumed within the hollow horn or support. Such a construction being so well known, it has been deemed unnecessary to illustrate it on the accompanying drawings.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

1. The combination of a perforated stock-support, an oscillating cutter pivotally attached within said support, and operating mechanism whereby the cutter is oscillated on its fulcrum and its cutting edge brought into the perforation in said support, for the purpose set forth.

2. In a pegging-machine, the combination with the awl, the driver, and operating mechanism for said parts whereby a peg is driven, of a perforated stock-support, an oscillating cutter pivotally attached within said support, and operating mechanism to oscillate the cutter on its fulcrum to cut the peg, the fulcrum for said cutter being substantially in a vertical line below the position occupied by the peg when being cut, whereby the cutting edge of the cutter is brought into the perforation in said support, moves substantially in a plane with the top surface of the support and removes the projecting end of the peg flush with the surface of the stock being pegged, for the purpose set forth.

3. The combination with the perforated hollow stock-support of a pegging-machine, of an oscillating cutter pivoted within said support having cutting edge at one end of the cutter, a rod attached to cutter opposite to its cutting edge and extending downward through said support the fulcrum for said cutter being located substantially in a vertical line below the perforation in said support a lever to which said rod is attached fulcrumed to the frame of the machine, and connected mechanism acting on said lever, whereby the cutter is oscillated on its fulcrum and its cutting edge is carried into the perforation in the support and removes the projecting ends of all pegs flush with the surface of the stock being pegged, for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 30th day of July, A. D. 1895.

SOLOMON M. CUTTER.

Witnesses:
HENRY CHADBOURN,
HARRY N. SQUIRES.