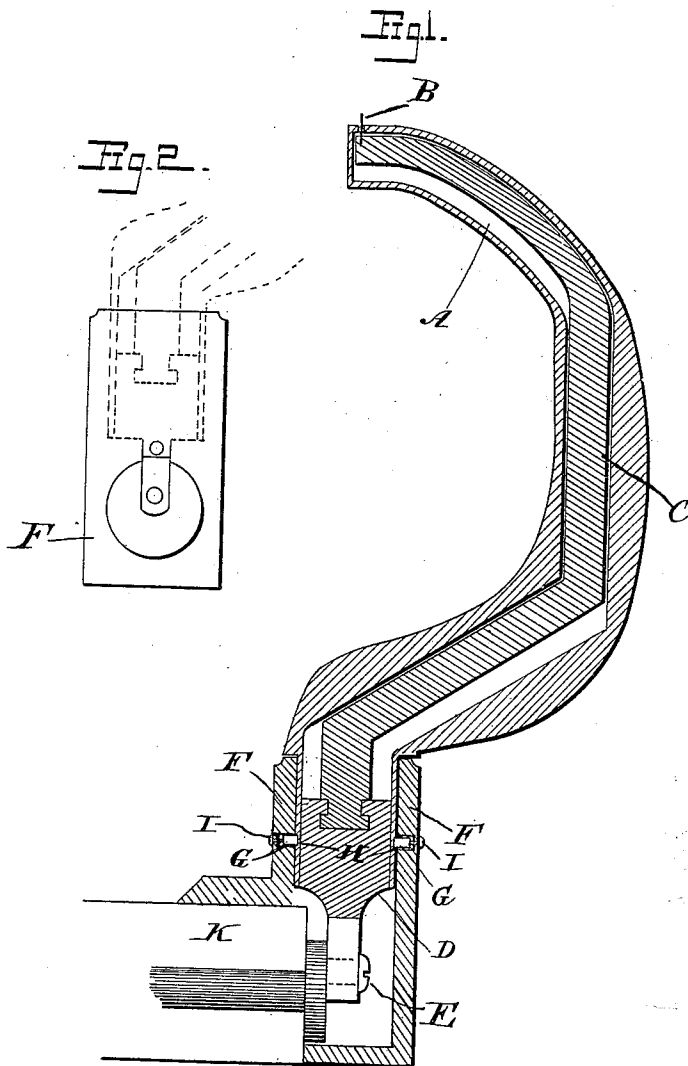


(No Model.)

G. W. DAY.
SOLE TRIMMING MACHINE.

No. 463,949.

Patented Nov. 24, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. DAY, OF HAVERHILL, ASSIGNOR TO FRANK L. WASHBURN, OF MELROSE, AND RICHARD H. JONES, OF BOSTON, MASSACHUSETTS.

SOLE-TRIMMING MACHINE.

SPECIFICATION forming part of Letters Patent No. 463,949, dated November 24, 1891.

Application filed April 8, 1891. Serial No. 388,082. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. DAY, a citizen of the United States, residing at Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Shoe-Trimming Apparatus, of which the following is so full, clear, and exact a description as will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of my improved device. Fig. 2 is a front elevation of the holding-socket, showing in broken lines the foot of the horn supported therein.

The object of my invention is to provide a pivotal horn which may be turned on its pivotal point completely around to adapt itself for use in trimming a shoe.

In the accompanying drawings, A designates a hollow horn, the upper end of which is perforated to receive and accommodate a knife or cutter B, secured to the upper end of a vertically-reciprocating arm C, the lower end of which is engaged by a pitman D, which is pivotally secured to a wrist-pin E, through the medium of which a reciprocating motion is imparted to the arm C.

A block F, having formed in it a vertical cylindrical socket, is secured upon the table K of the machine, by which the cutter is operated. The foot of the horn is also cylindrical and of a size to fit the socket in the block F, and has formed in it a circumferential groove H, which receives the inner ends of movable holding-blocks G G, by which the horn is retained in the socket. These blocks work in chambers formed in the walls of the socket and opening into the same. They are movable back and forth, so as to be engaged with and disengaged from the groove H by means of screws I I. Thus while the horn is securely held in the socket it is capable of turning freely therein and may be turned into any desired position during the operation of trimming a shoe. The horn A is hollow and has within it a reciprocating arm C, which carries at its upper end a knife B, that works through an opening in the horn. In the lower end of the horn A is a cylindrical pitman D, which is

connected with the arm C by a swivel-joint, so that all the parts may turn in and upon each other. The pitman D is connected with a wrist-pin E on the drive-wheel of the machine.

The general construction and operation of my device are fully set forth in my two applications filed by me October 31, 1889, designated in the United States Patent Office by the Serial Nos. 328,853 and 328,854, and this application contemplates simply the protection of a pivotal hollow horn, in combination with the other devices and appliances necessary for the trimming of a shoe.

Having thus described my invention, and the uses, objects, and advantages thereof, what I believe to be new, and desire to secure by Letters Patent, and what I therefore claim, is—

1. In a shoe-trimming apparatus, the combination of a socket-piece provided with movable holding-blocks adapted to be projected into the socket, and a horn with a cylindrical foot fitting and capable of being rotated in said socket and having a circumferential groove to receive the ends of said holding-blocks, whereby the horn is retained in the socket, but permitted to be rotated therein, substantially as shown and described.

2. In a shoe-trimming apparatus, the combination of a socket-piece on the table of a machine, a hollow horn having a cylindrical foot fitting and capable of being rotated in said socket, a reciprocating arm within the horn, a rotary shaft provided with a crank-wheel, a pitman connected with and operated by said crank-wheel and having a swivel connection with the reciprocating arm, and movable holding-blocks working in recesses in the walls of the holding-socket and capable of being projected into the latter, the foot of the horn having a circumferential groove to receive the said holding-blocks, whereby the horn is adapted to be rotated while the apparatus is in operation, substantially as shown and described.

In testimony whereof I affix my signature in the presence of two witnesses.

GEORGE W. DAY.

Witnesses:

EUGENE J. HADLEY,
JAMES CAMERON.