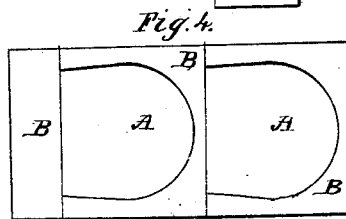
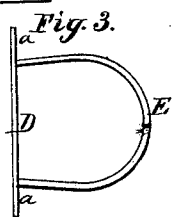
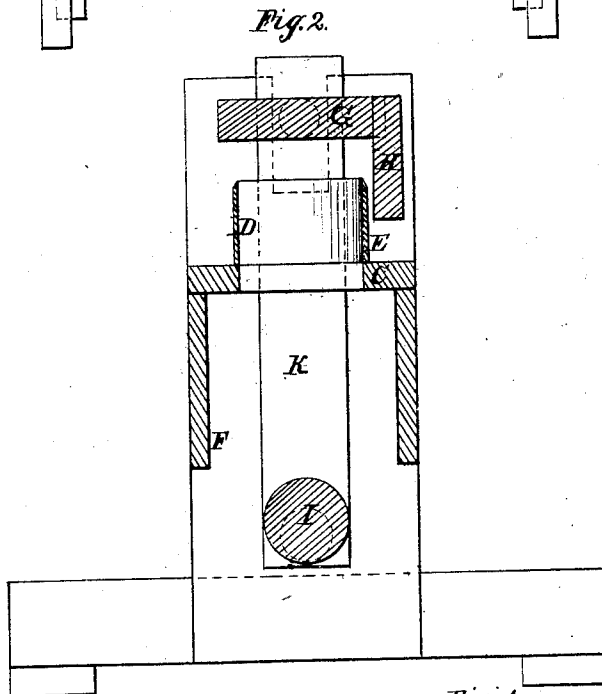
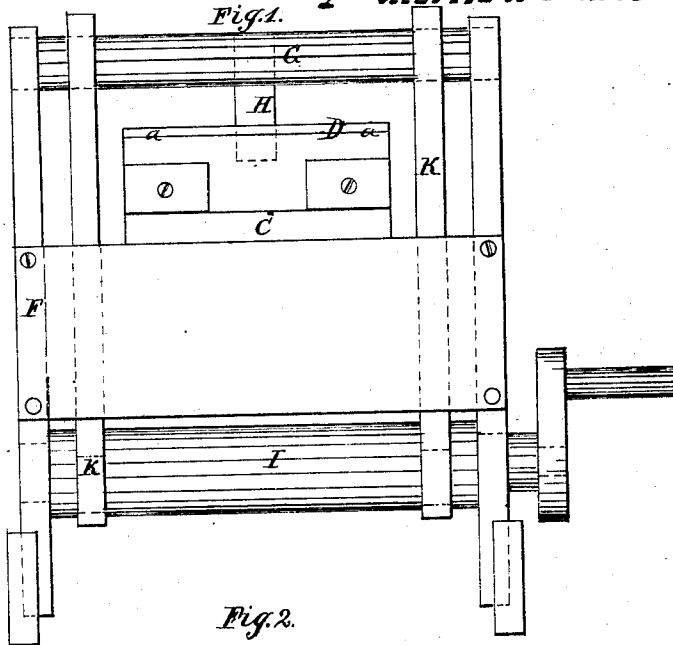


*J. Shaw,*

*Shoe-Heel Machine.*

*N<sup>o</sup> 17,455.*

*Patented June 2, 1857.*



# UNITED STATES PATENT OFFICE.

JOHN SHAW, OF NATICK, MASSACHUSETTS.

## HEEL-CUTTER FOR CUTTING OUT HEELS OF BOOTS AND SHOES.

Specification of Letters Patent No. 17,455, dated June 2, 1857.

### *To all whom it may concern:*

Be it known that I, JOHN SHAW, of Natick, in the county of Middlesex and State of Massachusetts, have invented an Improved Heel-Cutter; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, in which—

Figure 1, is a front elevation of a heel cutting machine furnished with my improvement. Fig. 2, a vertical, central and transverse section of said machine. Fig. 3, a top view of its cutter. Fig. 4, a top view of a strip of leather, with lines upon it exhibiting the manner in which the said strip is cut, when converted into heels. In this latter drawing A, A, A, denote the heel pieces, and, B, B, the waste portions of the strip.

The object of my invention is to separate each waste portion entirely from the strip during the formation of each heel portion.

In the drawings of the machine, C, exhibits the bed carrying two knives or cutters D, E, one of which is made curved and the other straight. The said bed and its cutters are placed in a frame, F, containing a platen, G, and a rest or stop, H, extended down therefrom. The platen is moved toward and away from the cutters by the action of a crank or eccentrics fixed on a shaft, I, and respectively operating with connecting rods, K, K, leading down from the platen. A screw or any other suitable power may be substituted for the devices above

mentioned for operating the platen, my invention having no reference to the platen or any mode of moving the same.

My improvement consists in providing the knife, D, with cutting wings to extend beyond the two termini of the curved knife, E, such wings being shown at *a, a*. In fact they are but extensions of the knife, D, beyond the knife, E, and are for the purpose of separating the waste portions of the strip of leather from such strip, in order that they may not interfere with each successive movement of the strip toward and against the rest, H, which extends down from the platen as shown in Fig. 2. After each heel has been separated from the strip of leather, such strip of leather is to be forced forward against the rest, and the platen is next to be depressed so as to cause the knives to pass through the strip and separate another heel from it. At the same time the heel is made, the waste will be severed from the strip.

What I claim in the above described cutter is—

The cutting wings, *a, a*, extended from it substantially in manner and so as to remove the waste portion from the strip of leather, while the heel piece is being formed therefrom in manner as specified.

In testimony whereof I have hereunto set my signature.

JOHN SHAW.

Witnesses:

W. B. COOLIDGE,  
B. F. HAM.