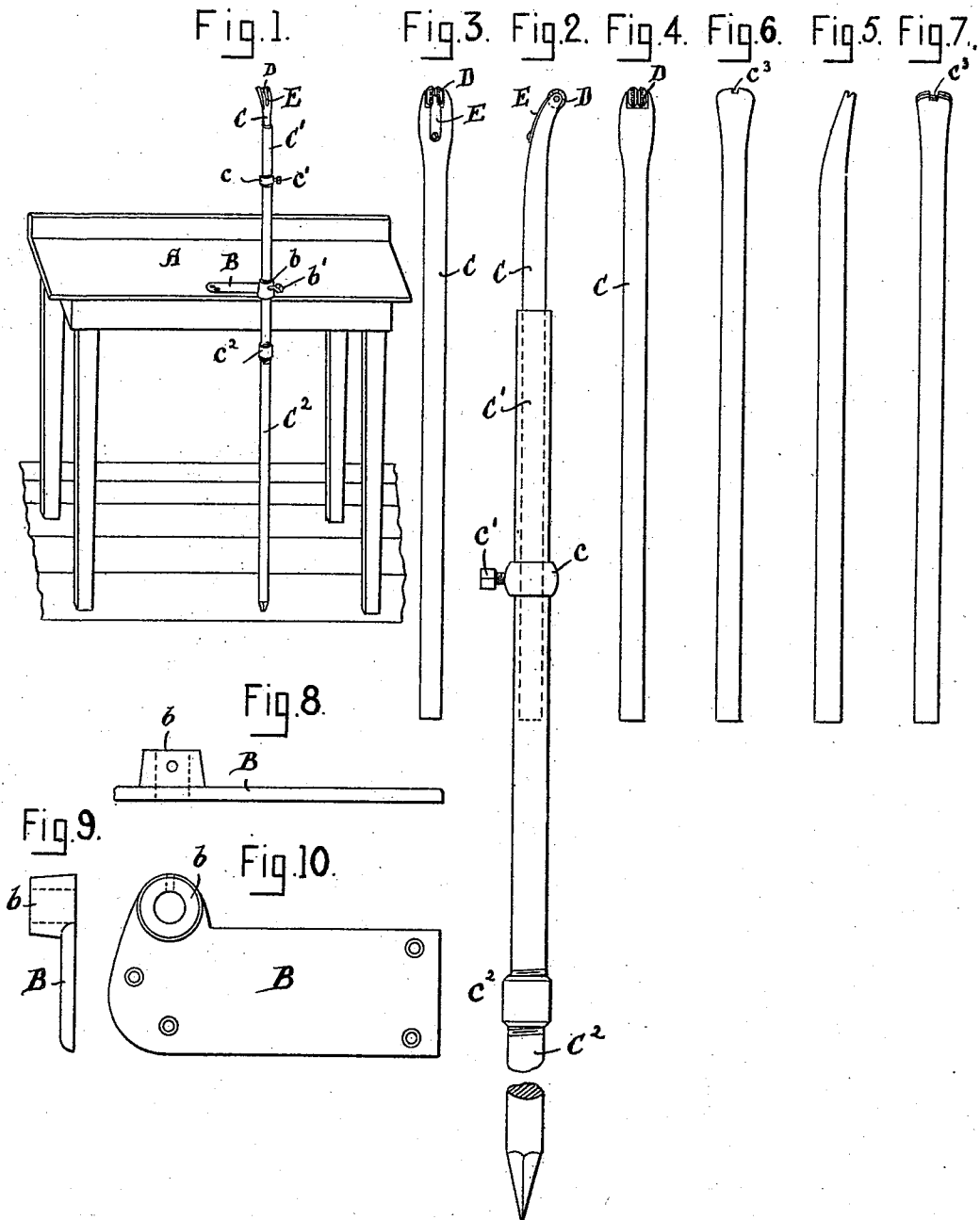


(No Model.)

L. C. SHAW.
APPARATUS FOR TURNING SHOES.

No. 494,601.

Patented Apr. 4, 1893.



Witnesses:
Caleb H. Swan
A. J. Wood

Inventor:
Lorenzo L. Shaw.
by Edwin Blanta
Attorney.

UNITED STATES PATENT OFFICE.

LARENZO C. SHAW, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO ISAAC W. HANSON, OF SAME PLACE.

APPARATUS FOR TURNING SHOES.

SPECIFICATION forming part of Letters Patent No. 494,601, dated April 4, 1893.

Application filed August 10, 1892. Serial No. 442,737. (No model.)

To all whom it may concern:

Be it known that I, LARENZO C. SHAW, a subject of the Queen of Great Britain, residing at Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Apparatus for Turning Shoes, of which the following, taken in connection with the accompanying drawings, is a specification.

In the manufacture of turned shoes, an iron having a broad edge has been employed to turn the shoe, and the shoe has to be turned by a series of jerks, and great care has to be taken to prevent injury to the toe when turning a shoe with a narrow toe.

The object of my invention is to overcome these defects and to produce an iron by which a shoe can be readily turned by one continuous motion.

The invention consists of an iron having an adjustable head provided with a corrugated roller and spring for preventing said roller from turning but in one direction, said iron being adjustable in height and secured to the bench by a plate as hereinafter fully described and pointed out in the claims.

Referring to the accompanying drawings: Figure 1—represents a bench with a turning iron embodying my invention applied thereto. Fig. 2— is a side view of the turning iron. Fig. 3— is a rear view of the upper adjustable portion of said iron. Fig. 4— is a front view of same. Figs. 5, 6 and 7— are respectively side views, rear view and front view of a modified form of turning iron. Fig. 8— is a side view. Fig. 9— is a plan view, and Fig. 10— an end view of the plate for holding the turning iron.

A, represents a bench to which a plate B, is secured. This plate is formed with a hub or boss *b*, to receive the turning iron, and it can also be utilized to clinch tacks in the inner sole, as a block to beat up counters on, and to drive the last into the shoe after it has been turned.

The turning iron consists of three parts, an upper one C, the upper end of which is furcated, and has mounted thereon a roller D, preferably of a conical shape and formed with a series of grooves, a spring E, being secured

to the rear of the iron, its upper free end engaging with the notches in the wheel D, whereby said wheel can turn in one direction only, viz: away from the operator. This upper piece C, is held in a central piece C', formed of wrought iron pipe, and formed with a boss *c*, through which passes a set screw *c'*, to hold the upper portion at the desired height; so that it can be adjusted according to the height of the operator. The central portion C' is connected to a lower portion C², by a union *c*², and at its lower end formed pointed so that when in place its end will be embedded in the flooring boards.

If desired instead of the upper iron C, fitted with a roller as described, an iron of modified form as shown in Figs. 5 to 7 might be employed. In this case the upper end of the iron is of a form similar to the ordinary iron, but in the central portion of its upper end is cut a notch *c*², which causes it to bite upon the sole of the shoe so that it can be turned by a regular motion similar to that of the roller instead of by jerks as with irons as usually constructed.

What I claim is—

1. In an apparatus for turning shoes, an iron for turning shoes furcated at its upper end and having a conically shaped corrugated roller mounted therein in combination with a spring for preventing any backward movement of said roller substantially as set forth.

2. In an apparatus for turning shoes, a plate B, adapted to be secured to a bench and having a hollow hub or boss *b*, in combination with an iron for turning shoes consisting of lower tubes or pipes C', C², connected together by a union *c*², and held in the boss *b*, of the plate B, by a set screw *b'*, and an upper bar C, adjustably held in the lower portion C², by a set screw *c'* substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 18th day of July, A. D. 1892.

LARENZO C. SHAW.

Witnesses:

JAMES B. MARTIN,
GEORGE B. DORMAN.