(No Model.)

E. C. WRIGHT.

LAST.

No. 355,750. Patented Jan. 11, 1887.

Fig: 2.

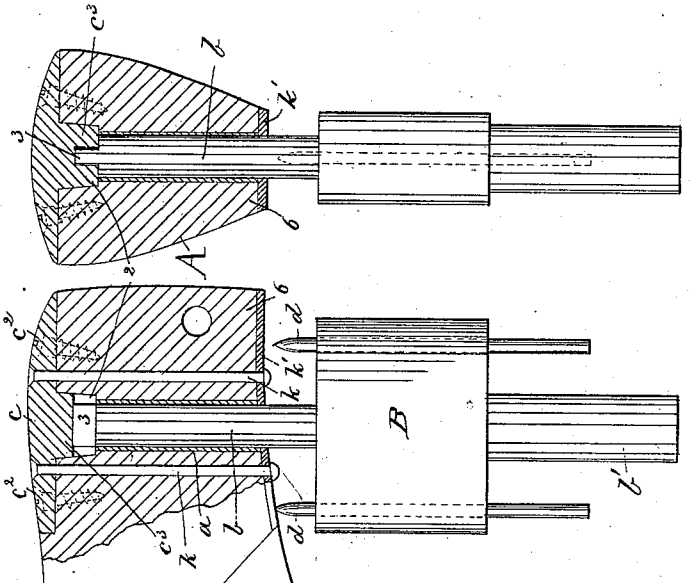


Fig: 1.

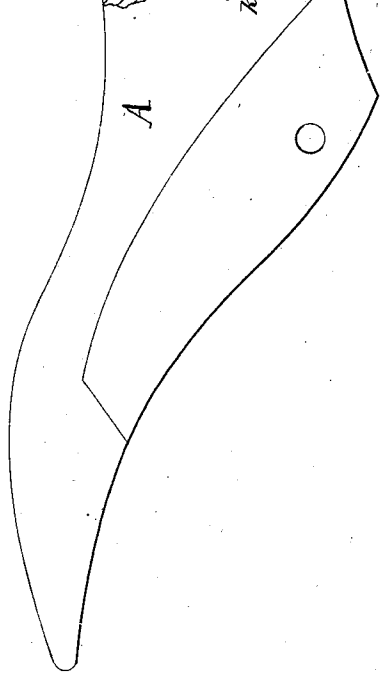


Fig: 4.

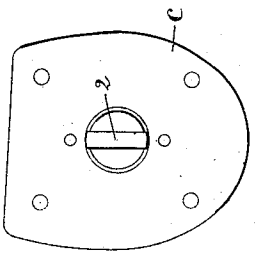
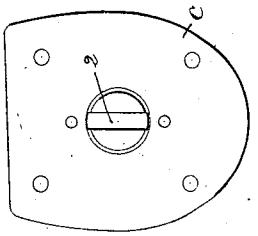


Fig: 3.



Witnesses.
Fred L. Emery.
John F. C. Pownsdorf

Inventor.
Ellory C. Wright.
by Crosby & Gregory Attys

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ELLERY C. WRIGHT, OF CAMPELLO, MASSACHUSETTS.

LAST.

SPECIFICATION forming part of Letters Patent No. 355,750, dated January 11, 1887.

Application filed September 25, 1886. Serial No. 214,537. (No model.)

To all whom it may concern:

Be it known that I, ELLERY C. WRIGHT, of Campello, county of Plymouth and State of Massachusetts, have invented an Improvement in Lasts, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to provide a strong serviceable last for use in heeling and other machines, and in jacks wherein the last retaining the shoe the heel of which is being nailed is subjected to very considerable pressure, strain, or blows.

Prior to this my invention the heel part of the last has been provided with a metal plate and with two holes for the reception of two pins, two pins being necessary to retain the last in the proper straight line.

In accordance with my invention the last is held in proper straight line by a single pin, it having at its upper end a keel to enter a slot in the heel-plate, the said slot being preferably in a teat or hub extended from the inner side of the said heel-plate, the said teat or hub also serving to greatly strengthen the heel plate.

My invention consists in the combination, with a last, of a metallic heel-plate applied to its bottom and provided with a slot or projection with which co-operates a keel or slot at the end of a last-holding pin.

Other features of my invention will be pointed out in the claims at the end of this specification.

Figure 1, in side elevation, represents a last partially broken out at the heel and provided with a heel-plate embodying my invention, the said plate being in section. Fig. 2 is a view of Fig. 1 from the right, the last being in cross-section; and Figs. 3 and 4 under side views of heel-plates embodying my invention, one being for a right and the other for a left foot last, the breasts of the plates being oppositely inclined.

The last A, of usual shape, and preferably of wood, is provided with a metal tube, *a*, extended through a hole in the last, the said tube receiving a last-holding pin, *b*, rising from a block, B, having, as herein shown, a stem, *b'*, to co-operate with the die-bed spindle of a heel-nailing machine.

The bottom of the last A at the heel is cut away to receive the heel-plate *c*, provided with holes to receive screws c^2, by which the plate *c* may be attached to the last.

The heel-plate has a central teat or hub, c^3, provided with a slot, 2, made therein in the direction of the length of the last, the said slot receiving a keel or projection, 3, at the upper end of the pin *b*, the said slot and keel or projection co-operating together to prevent any twisting of the last out of its straight-line position, the said slot and keel operating as efficiently as two pins in United States Patent No. 340,690.

It is obvious that the last would be equally well held in true position were the slot in the pin *b* and the projection from the teat or hub c^3; but the form shown is preferable, for it provides for more ready adjustment of the plates for rights and lefts.

It will be noticed that the breasts of the heel-plates *c* (shown in Figs. 3 and 4) are oppositely inclined, thus enabling them to be applied to right and left lasts in such a manner that the slots 2 will always occupy the same position relative to the length of the lasts, so that when the heels are being applied in a heeling-machine to right and left foot shoes, and the lasts consequently incline differently, the heels may be applied correctly.

The employment of screws c^2 to fasten the heel-plate *c* to the last may be dispensed with, and the said plate secured to the last by rivets or bolts K, extended through the heel-plate and last, and a metal plate, K', resting upon the neck 6 of the last, the said rivets or bolts in practice having their heads hammered or flattened to secure the plate K' to the neck of the last. The plate K' prevents the last from being chipped or worn away at its neck, thereby materially prolonging the life of the said last.

In order to insure the placing of the slot of the heel-plate in correct position to give to the last the desired inclination, I have provided the block B with two registering-pins, *d d*, which point toward the plate K' of the last.

The last is placed on the pin *b*, and is turned

until a line on the plate K′, denoting the proper inclination, registers with the pins *d d*, and then the heel-plate is applied to the last with the slot 2 embracing the keel or projection 3 and the plate is secured in such position.

The principal strain to which the last is subjected is applied to the plate *c* immediately above the pin *b*.

The addition of the teat or hub c^3 to the said plate *c* strengthens it very much.

I claim—

1. The combination, with the last, of a heel-plate having a registering-slot to co-operate with a registering projection on a last-holding pin, substantially as described.

2. A last combined with a heel-plate having an inclined breast, substantially as described.

3. A last combined with a heel-plate provided with a teat or hub slotted or shaped to register with the upper end of the pin *b*, substantially as described.

4. The combination, with the last, of a heel-plate and a neck-plate and one or more rivets extended through the last to fasten the said heel and neck plates to the last, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ELLERY C. WRIGHT.

Witnesses:
G. W. GREGORY,
J. H. CHURCHILL.