

(No Model.)

A. M. LEIGHTON.
LAST.

No. 487,627.

Patented Dec. 6, 1892.

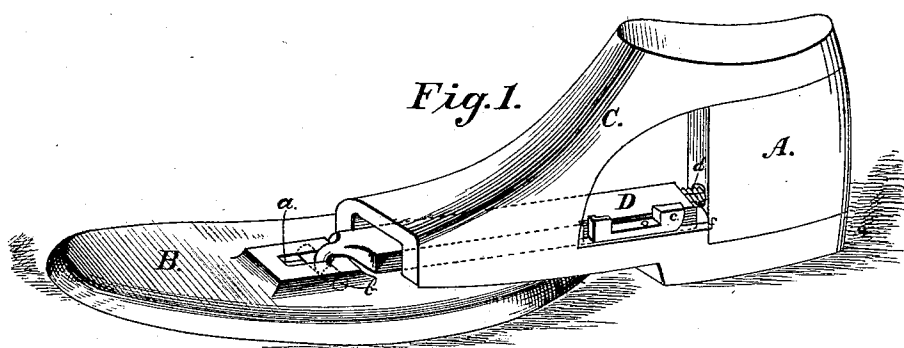


Fig. 3.

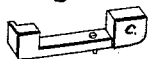


Fig. 2.

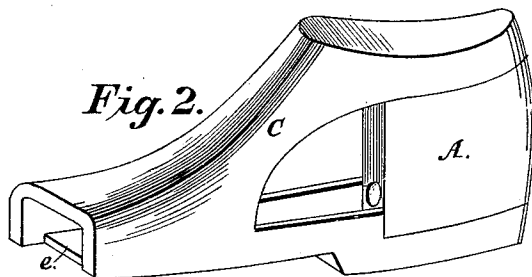


Fig. 4.

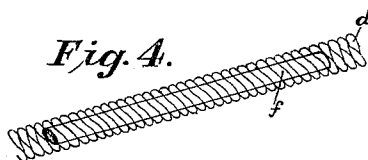


Fig. 5.

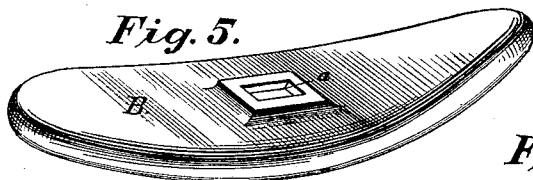
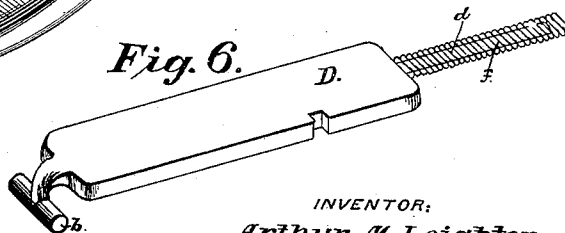


Fig. 6.



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LAST.

SPECIFICATION forming part of Letters Patent No. 487,627, dated December 6, 1892.

Application filed November 25, 1891. Renewed November 8, 1892. Serial No. 451,314. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR MELVIN LEIGHTON, of Port Townsend, in the county of Jefferson and State of Washington, have invented a new and useful Improvement in Adjustable Shoe-Lasts, of which the following is a specification.

My invention relates to an adjustable cobbler's last, which is automatically adjustable to closely fit any size of boot or shoe, no matter whether it has a pointed or wide toe.

Referring to the accompanying drawings, which show perspective views of my invention, Figure 1 represents the last complete. Fig. 2 shows the heel part detached from everything but the wood block A. Fig. 3 shows the catch which holds the last in place when putting it into a boot or shoe. Fig. 4 shows the spring which forces the last to any desired size. Fig. 5 shows the front part of the last with the pointed or wide toe that may be reversed without removing from the heel part, and Fig. 6 shows the reach that holds the heel part and toe part together and which the toe part reverses on.

Referring to the several parts by letter, A shows the wood block, that enables the workman to tack and hold the last in place in the boot or shoe, or to hold a run-down counter in its original place while the boot or shoe is being repaired.

B is the front part of the last, showing at its opposite ends the two toes. This part is provided with a longitudinal slot *a*, and beneath this a square recess, allowing the round cross-bar *b* of the reach D to pass through the longitudinal slot into the square space, and when turned lengthwise to lock the whole last together. This also forms a hinge, allowing the last to be put into a boot or shoe the same as the human foot is inserted, and therefore does not strain the upper of a boot or shoe or change the shape already formed.

C shows the iron heel part of the last with the heel cast hollow, with the front part fitted to the shape of the reach D, allowing said reach to move freely. These parts are expanded by the steel spring *d*, which is wound

about a stem *f* at the rear end of the reach. Wood block A has a hole a size larger than the spring, which hole when the last is coupled holds the spring. When the last is extended, the stem, which is a part of the reach D, guides the said spring.

c shows the catch fastened with a loose rivet to the side of the iron heel C for the purpose of locking the spring in the wood block A while the last is being inserted in the boot or shoe. By pressing said catch on the outside of the boot or shoe the spring is released and the last then completely fits the boot or shoe, ready for the workman.

By means of the hinge formed by the cross-bar *b* between the heel and toe part the workman may allow the heel part to drop down perpendicularly between his knees, and the toe part can then be used as a lap-iron to temper his leather on.

From the foregoing description, taken in connection with the accompanying drawings, the construction and advantages of my invention will be readily understood, and it will be seen that my automatically-adjustable last is very strong and simple and readily adjusts itself to fit different sizes of boots or shoes.

By making the lasts in three sizes—large medium, and small—all sizes of shoes that are ordinarily used can be repaired thereon.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the toe and heel sections in an adjustable last, of a reach-bar connecting the two and provided with a locking-notch, a spiral spring wound around a portion of the reach-bar and adapted to bear at one end against the heel portion and at the other against the reach to force the toe and heel parts away from each other, and a pivoted catch *c*, fulcrumed to the heel-section and adapted to enter the notch of the reach to lock the parts together against the tension of the spring while inserting the last in the shoe, substantially as described.

2. The combination of the reversible toe-

section B, having slot *a*, the heel-section A C,
the reach D, having cross-bar *b*, stem *f*, and
a notch on the side, the spring *d*, surround-
ing the stem and pressing at one end against
5 the heel-section and at the other against the
reach, and the locking-catch *c*, pivoted or ful-
crumed to the heel-piece and adapted to lock

in the notch of the reach, substantially as
shown and described.

ARTHUR MELVIN LEIGHTON

Witnesses:

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