(No Model.)

G. W. THOMPSON.

RELASTING MACHINE.

No. 493,196. Patented Mar. 7, 1893.

Fig. 1.

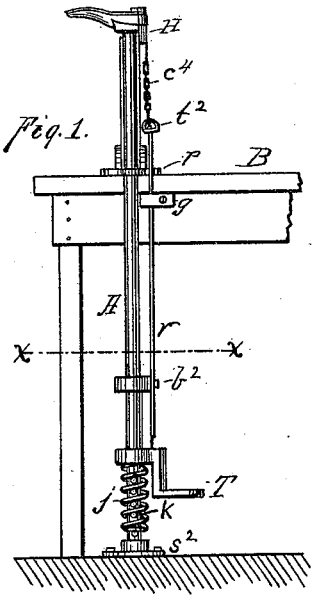


Fig. 3.

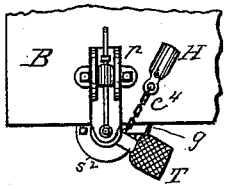


Fig. 4.

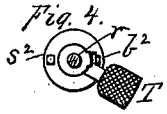


Fig. 2.

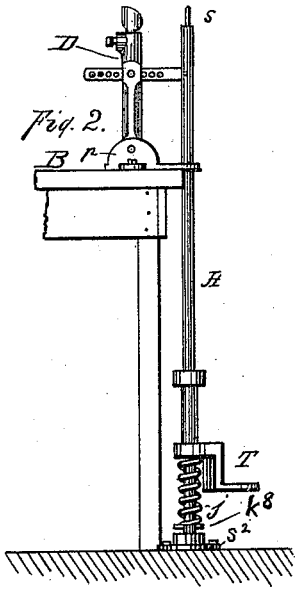


Fig. 5.

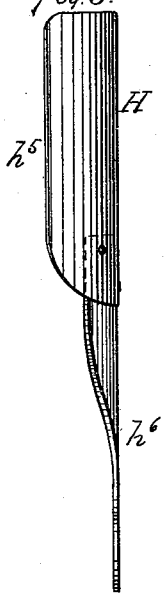


Fig. 6.

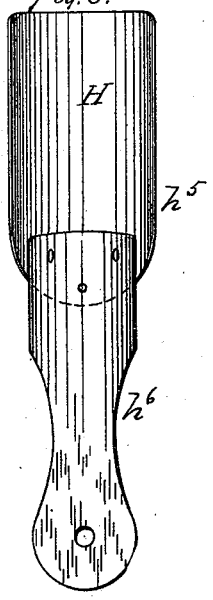
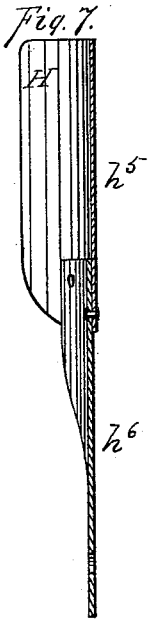


Fig. 7.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

GEORGE W. THOMPSON, OF LYNN, MASSACHUSETTS.

RELASTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 493,196, dated March 7, 1893.

Application filed October 17, 1891. Renewed January 26, 1893. Serial No. 459,929. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. THOMPSON, of Lynn, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Relasting-Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to shoe machinery, being an improved device for re-lasting boots and shoes in the process of their manufacture, and it consists in the various parts, and the arrangement thereof, shown in the drawings and specification, and particularly pointed out in the claims.

Referring now to the drawings, Figure 1 is a side elevation of a portion of a bench with my re-lasting machine attached thereto. Fig. 2 is an end elevation of the same; Fig. 3, a top view, and Fig. 4 a transverse section on line x x (Fig. 1), of the same. Figs. 5, 6, and 7, are edge, full, and sectional elevations, respectively, of the shoe horn with its flexible attachment.

The machine is composed of a post A provided with a spindle s at the top. The post A is secured to the bench B by a plate p and to the floor by a step s^2 bolted to the floor to which the said post is secured. Below the top of the bench B, and sliding freely on the post A, is a treadle T, to which is adjustably attached the rod r by means of the screw-bolt b^2. The upper extremity of the rod r is provided with a swivel t^2 that is connected by a chain, c^4, to the shoe horn H. A guide g serves to keep the rod r in a vertical position.

The treadle T may be made in any form convenient for the operator, the drawings illustrating one form resting on a spring j, the use of which is to return the treadle T to its original height after having been depressed.

In order to extend the usefulness of that part of my invention hereinbefore described I have constructed the plate p to serve as a base or step for the toe-rest D. I claim no novelty in the form of the toe-rest, any form having vertical and horizontal adjustment may be used in combination with my re-lasting machine.

The shoe horn H may be made of any suitable sheet metal, the part h^6 of any flexible material firmly attached to the concavo-convex part h^5, substantially as shown. Flexibility of the shank h^6. of the horn H is of advantage when inserting the part h^5 between the heel of the last and the inside of the shoe, while the connecting chain c^4 permits the horn H to be laid on the bench B when not in use. The swivel t^2 serves to prevent the chain c^4 from twisting. Adjustment to the foot of the operator is had by raising or lowering the spring j, and this is done by means of the pin k^3 and pin-holes k in the post A, while adjustment of the height of the horn H to the work is obtained by slacking the screw-bolt b^2, setting the rod r at the point desired and there securing it by setting up the said screw-bolt b^2, or a turn-buckle may be used between the screw-bolt b^2 and the swivel t^2.

When using my improved re-lasting machine the toe part of the shoe is pushed on to the corresponding part of the last; the horn H is now placed, concave side next to the heel of the last, projecting the depth of the shoe above, the inner back part of the shoe over the projecting part of the horn H; the foot is now placed on the treadle T and pressure applied when the shoe will be drawn upon the last. Continued pressure of the foot on the treadle T draws the horn H completely out, the lasted shoe removed from the spindle s, and the operation repeated *ad infinitum.*

I claim as novel—

1. The combination with a shoe horn H, having a flexible shank h^6 of the part A the treadle T, adjustable connecting rod r and chain c^4, connected and operating substantially as and for the purpose set forth.

2. The shoe horn H having a flexible shank h^6 for the purpose described, in combination with the parts: the post A, chain c^4, swivel t^2, adjustable rod r adjustably secured to the treadle T, all operating substantially as and for the purpose specified.

3. In combination with the post A of a relasting device, the treadle T adjustably supported by a spring j and adjustably connected to a shoe horn H, provided with a flexible shank, h^6, for the purpose described, substantially as and for the purpose set forth.

4. In combination with a relasting device

composed of the shoe horn H with its flexible shank h^6, chain c^4, swivel t^2, adjustable rod r, adjustably secured to the treadle T, the adjustable toe support D, substantially as and for the purpose hereinbefore set forth.

5. The combination of the shoe-horn H with the rod r adjustably connected to the treadle T, the treadle T supported by the spring j, said spring having means of adjustment between the point of suspension of the same and the post A, all operating as and for the purpose hereinbefore specified.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 13th day of October, A. D. 1891.

GEORGE W. THOMPSON.

Witnesses:
E. C. MORRILL,
F. S. WISWELL.