

T. G. STEVENS & C. WAKEFIELD.
 BOOT AND SHOE TREE,
 APPLICATION FILED JAN. 9, 1908.

945,202.

Patented Jan. 4, 1910.

Fig. 1.

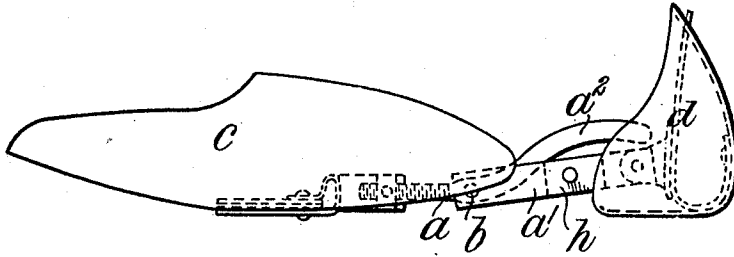
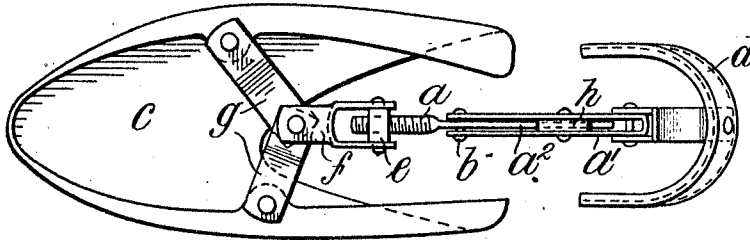


Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS GEORGE STEVENS, OF PAVENHAM, BEDFORD, AND CHARLES WAKEFIELD, OF ROSHERVILLE, ENGLAND.

BOOT AND SHOE TREE.

945,202.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed January 9, 1908. Serial No. 409,960.

To all whom it may concern:

Be it known that we, THOMAS GEORGE STEVENS and CHARLES WAKEFIELD, subjects of the King of Great Britain and Ireland, residing at Pavenham, Bedford, England, and 20 Burch road, Rosherville, Kent, England, respectively, have invented certain new and useful Improvements in Boot and Shoe Trees; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

According to this invention we are able to construct a boot or shoe tree or last in which an adjustable longitudinal stretching movement of the tree or last is combined with a lateral expanding movement of a springy toe piece. We are also enabled whether or not the feature of adjustable longitudinal stretching of the tree or last is combined with the feature of lateral expansion of the springy toe piece, to construct a tree or last which may be used with boots or shoes of different sizes.

In the accompanying sheet of descriptive drawings:—Figure 1 is an elevation of a boot tree or last in which the feature of longitudinal stretching of the tree or last is combined with the feature of lateral expansion of the springy toe piece according to this invention. Fig. 2 is an inverted plan of the same.

Like letters apply to like parts throughout the figures.

The toe piece *c* is constructed of one piece of metal and is consequently springy.

Referring to Figs. 1 and 2 the boot tree is formed in two pieces *c* and *d* and is extendible longitudinally and as regards the springy toe piece *c* laterally the double extension being obtained by a double system of toggle levers operated at one point. The main stem or toggle lever is formed in two parts *a a'* pivoted together at *b* and attached to the spring toe and heel pieces *c* and *d*. The part *a'* that is attached to the heel

piece is formed double and embraces a flattened extension *a²* of the piece *a* which is screw threaded at its other end and engages a swiveling nut *e* mounted in a swiveling link or bracket *f* connected with the spring toe *c* through the medium of links or toggles *g* so that the boot is stretched both longitudinally and laterally. The flattened extension or operating end *a²* of the screwed stem *a* is slightly curved and is adapted when the toggle *a a'* is in its extended position to rest against a stop *h* fixed between the double stem piece *a'* and that arrests the levers when the joining pivot *b* has just crossed over the straight line joining the pivots at the other ends of the links that is just over the position of dead center.

It will be readily understood that by simply turning the screwed stem piece into or out of the nut *e* any desired adjustment of the tree may be obtained both laterally and in length at one operation.

We claim:—

A shoe tree comprising in combination, an integral toe support of resilient material, a heel member having vertical and lateral extensions engaging the heel portion of the shoe and preventing movement of the heel member during application and release of pressure, toggle levers connected at their outer ends with said toe support to expand the same, a rigid toggle pivotally and adjustably connected with said toe support and including a threaded toggle member provided with an operating extension, and a U-shaped leaf spring having one end secured to said heel member and the other end pivotally connected with said rigid toggle and slidably engaging said heel member.

In testimony whereof we have affixed our signatures, in presence of two witnesses.

THOMAS GEORGE STEVENS.
CHARLES WAKEFIELD.

Witnesses:

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