

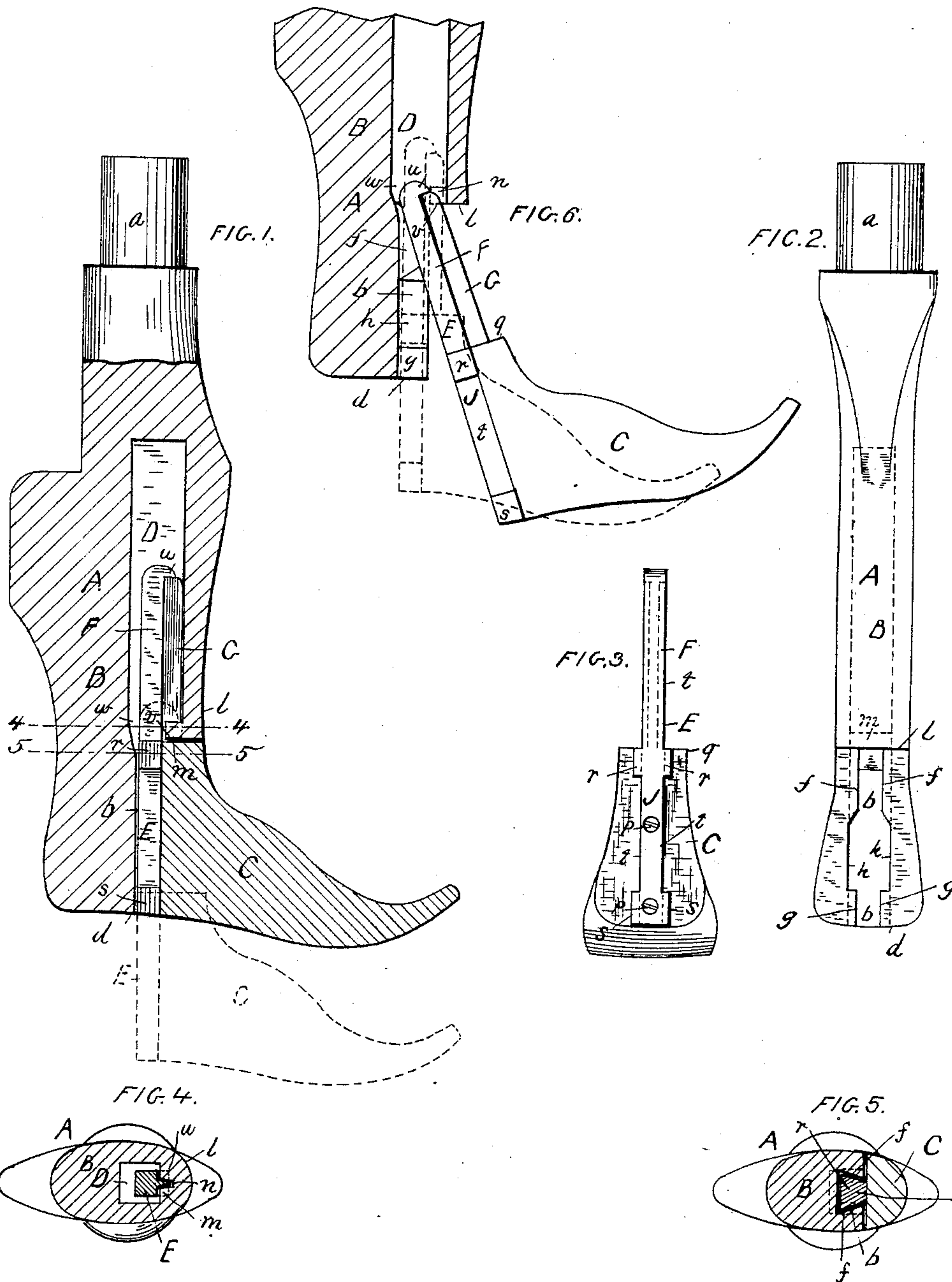
(No Model.)

A. D. TYLER, Jr.

BOOT OR SHOE TREE.

No. 348,937.

Patented Sept. 7, 1886.



WITNESSES

Wm. J. Ballin
Henry A. Clark

A. D. TYLER, JR.,

INVENTOR,

PER

Brown Bros.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

ABEL D. TYLER, JR., OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO OLIVER
A. MILLER, OF SAME PLACE.

BOOT OR SHOE TREE.

SPECIFICATION forming part of Letters Patent No. 348,937, dated September 7, 1886.

Application filed February 12, 1884. Serial No. 120,441. (No model.)

To all whom it may concern:

Be it known that I, ABEL D. TYLER, Jr., of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Boot or Shoe Trees, of which the following is a full, clear, and exact description.

This invention relates to improvements in boot or shoe trees; and it consists in the construction and arrangement of the parts connecting the foot portion to the body or center of the boot or shoe tree, so that the foot can be conveniently attached to and detached from such body, all substantially as hereinafter fully described, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a vertical section of a boot or shoe tree from rear to the front, constructed according to this invention, with the foot attached and in position for the proper operation on the boot or shoe. Fig. 2 is a front view with the foot removed. Fig. 3 is a rear vertical view of the foot portion; Figs. 4 and 5, views in cross-section on lines 4 4 and 5 5, respectively, Fig. 1; and Fig. 6 a detail sectional view to be hereinafter referred to.

In the drawings, A represents a boot or shoe tree, of which B is the body or center portion, and C the foot portion. The body B at its end *a* is adapted to be supported by and to turn in its support, all as usual in boot or shoe trees, and needing no particular description herein.

At the front of the lower end of the body B is a vertical groove, *b*, extending from the end *d* up to and opens into a recess or chamber, D. The sides of this groove at *f* and *g* are of dovetail shape in cross-section and between the two portions *f g* are square or substantially at right angles, being of the full width of the dovetail portion of the groove, as shown at *h*, Fig. 2, more particularly.

At the projecting end *l* of body B, above the groove *b*, is an abutment or shoulder, *m*, in which is an open slot, *n*.

Attached to the back part of the foot C is a bar, E, secured thereto by screws *p*, and extending vertically by its end F above the top part, *q*, of the foot. This bar E at *r* and *s* is of dovetail shape in cross-section, its smaller portion being next the foot, while the portions

t of the bar, between the parts *r* and *s* and beyond the part *r*, are square, or substantially so, in cross-section. This bar is adapted to lie and freely slide within the groove *b* of the body of the boot-tree, the dovetail portions *r s* of the bar correspondingly fitting within the dovetail portions *f g* of the groove *b*, so that when placed therein it will be held from accidental lateral displacement by the dovetail portions of the bar, and thus hold the foot to the body portion of the boot-tree, while at the same time the bar can freely slide back and forth in said groove.

On one side of the bar E is a longitudinal rib, G, which is of a size to freely slide within the slot *n* in the abutment *m* of the part *l*, and at each side of this rib G, at its upper end, are projections *u*, which, when the bar is properly placed within the groove *b*, and its end F in said recess or chamber, as the foot is moved down from the body, as shown in dotted lines, Fig. 1, will abut against the shoulder *m*, and thus hold and prevent the foot from accidental detachment endwise.

To secure the foot to the body portion, place the end F of the bar E under the edge *v* of the abutment *m* by canting the foot, as shown in Fig. 6, until the projections *u* on the end of the bar have passed under and by the edge *v* of the abutment, the recess being deep enough, as at *w*, to allow such, when push the foot back against the body portion, the dovetail portion *r* entering the groove *b* at its enlargement *h*, when the bar can slide along the length of the groove, as desired. To remove the foot the above movements are reversed.

When the boot or shoe is to be placed on the tree, the foot is first moved down to its position, (shown in dotted lines, Fig. 1,) and the boot or shoe placed over the foot, and the foot moved up to its place, and the heel of the boot put over the heel portion H of the tree, all substantially as usual in securing boots and shoes to boot-trees.

The manner of securing the foot to the body of the tree, as herein described, is simple, convenient, and practical, and enables the foot to be conveniently attached to and detached from the body of the tree at pleasure, and allows free and easy movement of the foot for the attachment of the boot or shoe. The dovetail

tongue-and-groove connection prevents its accidental escape from the tree.

In lieu of a dovetail groove-joint, as described, it can be of other forms—as, for instance, one with square shoulders projecting and sliding in grooves in the part B—but a dovetail connection is preferable.

The portion of the bar at the part J, in lieu of being made separate and attached to the foot, as shown, can be part of the foot itself, although it is preferable to have it made separate and of metal.

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

1. The combination, with the body or central portion of a boot-tree having a groove, *b*, and dovetail or securing portions *f g*, and enlargement of the groove between said portions *f g*, of the foot-piece C, having a bar, E, attached

thereto, having dovetail or securing portions *r s*, adapted to interlock with the said portions *f g*, for the purpose specified.

2. The combination, with the body or central portion of a boot-tree having a groove, *b*, and dovetail or securing portions *f g*, an enlargement of the groove between said portions *f g*, a shoulder or abutment, *m*, and slot *n*, of a foot-piece having a bar, E, attached thereto, having dovetail or securing portions *r s*, adapted to interlock with said portions *f g*, a rib, G, and projection *u*, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ABEL D. TYLER, JR.

Witnesses:

CHAS. W. ROBINSON,
HENRY N. PACKARD.