

No. 747,165.

PATENTED DEC. 15, 1903.

J. M. GREIST,
SEWING MACHINE PRESSER FOOT HOLDER.

APPLICATION FILED APR. 14, 1903.

NO MODEL.

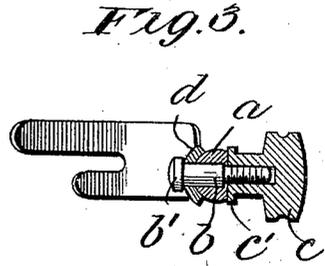
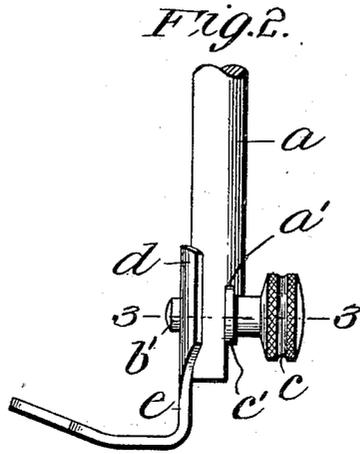
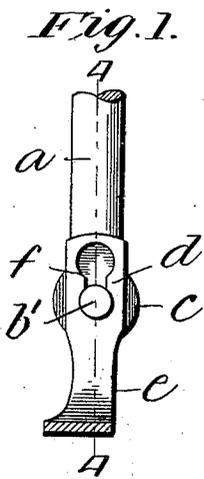


Fig. 4.

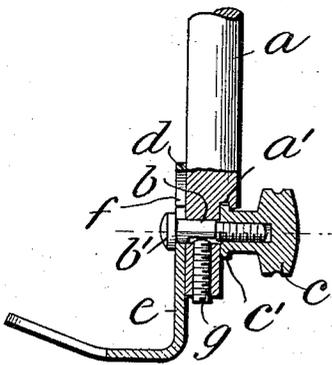
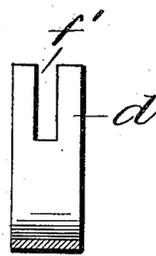


Fig. 5.



WITNESSES:

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JOHN M. GREIST, OF NEW HAVEN, CONNECTICUT.

SEWING-MACHINE PRESSER-FOOT HOLDER.

SPECIFICATION forming part of Letters Patent No. 747,165, dated December 15, 1903.

Application filed April 14, 1903. Serial No. 152,606. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. GREIST, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sewing-Machine Presser-Foot Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide a simple device whereby a sewing-machine presser-foot may be conveniently and quickly placed in or removed from working position on a sewing-machine, whether the said foot
15 be an ordinary presser-foot or whether it be an attachment presser-foot such as is used in connection with hemmers, binders, rufflers, tuck-markers, and the like.

20 To this end the improved presser-foot-holding device comprises a clamping-stud longitudinally movable in a transverse socket or hole near the lower end of the presser-bar, said stud having at one end a head to impinge against the shank of the presser-foot and being
25 threaded at its other end for engagement with a stud or clamping-nut. The shank of the presser-foot is preferably provided with a buttonhole-slot, the larger end of which will enable said shank to be slipped over the
30 head of the clamping-stud and the smaller part of which slot fits somewhat closely the shank of said stud, so that when the set or clamping nut is loosened to release the clamping-stud (which is preferably on the front side of the
35 presser-bar) the presser-foot may be quickly and readily removed from working position.

In the accompanying drawings, Figure 1 is a front view of a presser-foot and the lower part of a presser-bar embodying the invention with the presser-foot in cross-section.
40 Fig. 2 is a side view of the same. Fig. 3 is a horizontal section on line 3 3, Fig. 2; and Fig. 4 is a vertical section on line 4 4, Fig. 1. Fig. 5 illustrates a slightly-modified form of
45 presser-foot shank.

Referring to the drawings, *a* denotes a presser-bar provided near its lower end with a transverse hole or socket, in which loosely but somewhat closely fits a clamping-stud *b*,
50 having a threaded portion which is engaged by a set or clamping nut *c*, the shoulder of

which impinges against a flattened portion or seat at the lower end of the pressure-bar and which nut is preferably provided with a small flange *c'*, extending into an undercut
55 notch or recess *a'*, formed in the presser-bar. The clamping-stud *b* is provided at its outer end with a head *b'*, and the shank *d* of the presser-foot *e* is provided with a buttonhole-slot *f*, the larger upper portion of which is of
60 a size to pass freely over the said head *b'* of the said stud *b* and the smaller lower portion of which slot is of a size to fit the neck of the said stud somewhat closely, while the sides of said slot will be overlapped by the
65 said head *b'*. The notch or recess *a'*, entered by one edge of the flange *c'* on the nut *c*, prevents endwise movement of the said nut when the latter is turned to loosen the clamping-
70 stud. To prevent the stud *b* from turning in its socket in the presser-bar or from getting out of the same, a small screw *g* is tapped in the lower end of the presser-bar, and the upper end of said screw engages a small
75 notch or flattened portion of the shank of the stud *b* in such a manner as to prevent said stud from turning, while permitting it to have a limited endwise movement in its clamp-
ing or unclamping operation.

The construction just described and in
80 which the clamping-stud is preferably so arranged that its clamping-head will be on the front side of the presser-bar is particularly convenient in that it permits the presser-foot to be attached to or removed from the front
85 side of the presser-bar, which is the most convenient and accessible manner for attaching a presser-foot to a presser-bar, particularly where the presser-foot is an attachment
90 presser-foot. The present construction is also particularly well adapted for the attachment of a presser-foot directly to the lower end of a round presser-bar or a presser-bar having a rounded face or lower end without requiring
95 any intermediate clamping block or device, and in such direct attachment to a round presser-bar the shank of the presser-foot will be curved transversely, or in cross-section, to correspond approximately to the curvature of the presser-bar, so as to make a solid
100 fit when the presser-foot is clamped in place, such curvature of the inner face of the pres-

ser-foot being preferably, however, mathematically on the radius of a circle of slightly less diameter than the radius of the circle corresponding to the diameter of the presser-
 5 bar, in order that the clamping action at the outer sides of the presser-foot shank will be greatest when the clamping-stud is tightened by the set-nut.

While the shank of the presser-foot is preferably provided with a buttonhole-slot, as more clearly shown in Fig. 1, the invention is not to be understood as being limited to this particular form of slot in the presser-foot shank, as a plain open-ended slot permitting the shank of the presser-foot to be
 15 slipped endwise upward under the head of the clamping-stud might be employed, this modification of the invention being illustrated in Fig. 5, in which the presser-foot shank is
 20 shown as having an open-ended slot *f'*.

Having thus described my invention, I

claim and desire to secure by Letter Patent—

A presser-foot-holding device consisting of a presser-bar having a rounded lower end
 25 and provided with a hole or socket, in combination with a clamping-stud in said hole or socket and having a head at one end and screw-threaded at its other end, a presser-foot shank which is curved transversely to
 30 fit against a rounded portion of the presser-bar, said shank having a slot embracing the neck of said stud, and a clamping-nut on the threaded end of said stud and by which the
 35 latter may be tightened and loosened.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN M. GREIST.

Witnesses:

P. R. GREIST,
 W. C. GREIST.