

C. A. POTTER.
PRESSER FOOT.
APPLICATION FILED JUNE 10, 1909.

948,100.

Patented Feb. 1, 1910.

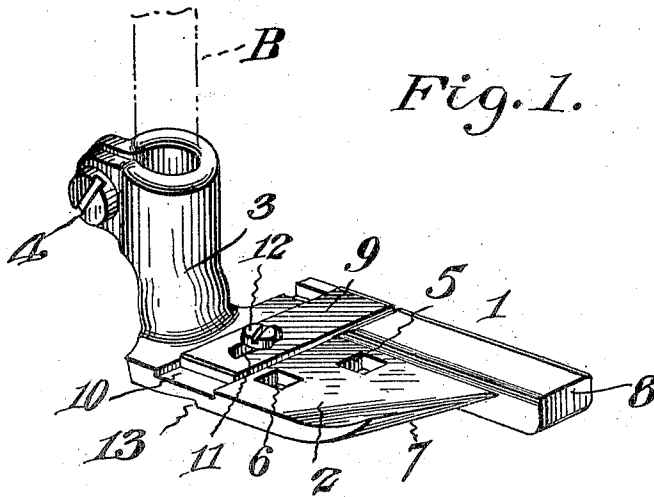


Fig. 1.

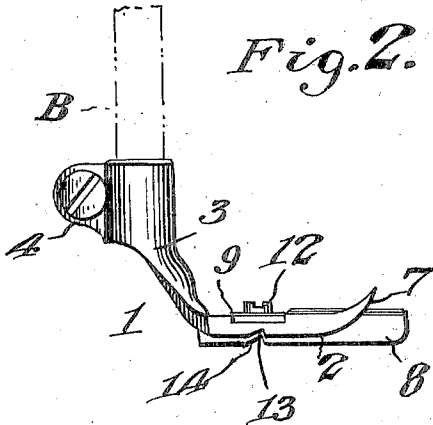


Fig. 2.

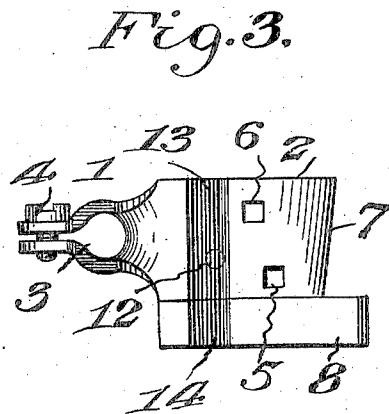


Fig. 3.

Witnesses:—

Joe. P. Wahler.
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By Watson E. Coleman ^{Attorney}

UNITED STATES PATENT OFFICE

CHARLES A. POTTER, OF LAKEPORT, NEW HAMPSHIRE.

PRESSER-FOOT.

948,100.

Specification of Letters Patent.

Patented Feb. 1, 1910.

Application filed June 10, 1909. Serial No. 501,383.

To all whom it may concern:

Be it known that I, CHARLES A. POTTER, a citizen of the United States, residing at Lakeport, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in Presser-Feet, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in presser feet for sewing machines and more particularly to those which are used when sewing upon material having a smooth, hard surface such as patent leather.

In stitching toe caps and other portions of patent leather shoes it is necessary to oil the leather before it is placed in the machine or to supply oil beneath the presser foot while sewing in order to permit the work to be properly performed. The frictional contact between the smooth bottom face of the ordinary presser foot and the hard, smooth surface of patent leather, together with the suction between these parts, and more especially when the patent leather toe cap is provided with the usual perforations, causes said parts to bind and not slide easily upon each other, hence the necessity of the use of oil, grease, or other lubricant.

It is the object of my invention to provide an improved presser foot which will not require the oiling or lubricating of the patent leather and this object is attained by forming in the bottom face of the presser foot one or more notches or grooves which will break the suction and reduce friction.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a well known form of presser foot having my invention embodied therein; Fig. 2 is an edge view of the presser foot; and Fig. 3 is a bottom view.

In the drawings 1 denotes a presser foot having a broad, flat, horizontally disposed base portion 2 and an upright portion 3 which may be attached in any suitable manner to the presser bar indicated in dotted lines, as at B. As illustrated, said portion 3 is of split tubular form to receive a presser bar and adapted to be clamped thereon by a screw 4. The presser foot illustrated is

especially adapted for use on a machine for sewing four rows of stitching in a toe cap of a shoe and its base portion 2 is provided with two offset openings 5, 6 for the needles. The outer or front end of the base 2 is also upturned and beveled, as shown at 7, so that the material will be properly guided. The presser foot is also provided upon one side with a gage portion or bar 8 having a lateral shank 9 slidable in a transverse groove 10 in the top of the base 2 and formed with a longitudinal slot 11 to receive a clamping and adjusting screw 12.

In the practice of my invention, I form in the smooth, flat, bottom face of the base portion 2 of the presser foot one or more transverse grooves 13, and when the presser foot has the gage 8 the latter is provided with a similar groove 14 which is similarly disposed, as clearly shown in Figs. 2 and 3. These grooves are substantially V-shaped in cross section and are disposed in rear of the needle openings 5, 6 so that said base portion of the presser foot will not have a continuous or unbroken smooth bottom face to cause suction as it passes over the perforations in the patent leather toe cap. The formation of the grooves also reduces the area of the presser foot base portion which contacts the patent leather and hence reduces friction. I have found in practice that presser feet constructed in accordance with the invention will not need the patent leather to be oiled prior to being placed in the machine nor during the sewing operation.

While I have shown and described the invention as embodied in a particular kind of presser foot and gage, it will be understood that it may be embodied in presser feet of other forms and constructions.

Having thus described the invention what is claimed is:

1. The combination with a presser foot having a smooth, flat bottom formed with a transversely extending groove, of a gage carried by the presser foot and having a bar disposed to one side of the presser foot and formed with a flat bottom disposed in a plane below the plane of the bottom face of the presser foot and containing a transverse groove disposed opposite the groove in the bottom of the presser foot, as and for the purpose specified.

2. The herein described presser foot for use in sewing patent leather tips on patent leather shoe uppers, consisting of an attach-

ing shank with means for securing it to a
presser foot bar, a rectangular base portion
projecting from the shank and having a
smooth, flat bottom face, and an angularly
5 disposed and upwardly curved and tapered
forward end, said flat bottom face of the
base being formed with a transversely ex-
tending V-shaped groove adjacent the rear
portion of said base, the intermediate portion
10 of the latter being formed with two needle
holes, a gage having a shank transversely ad-
justable on the top portion of the base, and
a longitudinally extending rectangular gage
bar disposed to one side of the base of the
15 presser foot and having a flat bottom face

disposed in a plane beneath the plane of the
bottom face of the base of the presser foot,
said flat bottom face of the gage bar being
formed with a transversely extending V-
shaped groove disposed in the same vertical 20
transverse plane as the groove in the base
portion of the presser foot, as and for the
purpose specified.

In testimony whereof I hereunto affix my
signature in the presence of two witnesses. 25

CHARLES A. POTTER.

Witnesses:

WELLS G. HADLEY,
WILLIAM H. COLBATH.