

(No Model.)

W. A. NEELY.
PRESSER FOOT FOR SEWING MACHINES.

No. 400,355.

Patented Mar. 26, 1889.

Fig. 1

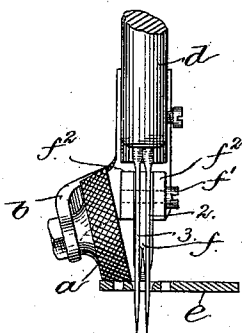


Fig. 2.

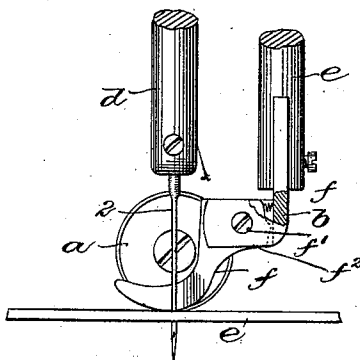


Fig. 3.

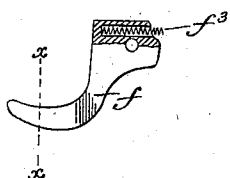


Fig. 4.



Witnesses.
John F. C. Printz
Howard F. Eaton.

Inventor,
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by Leroy & Gregory attys.

UNITED STATES PATENT OFFICE.

WILLIAM A. NEELY, OF LYNN, MASSACHUSETTS, ASSIGNOR TO THE
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PRESSER-FOOT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 400,355, dated March 26, 1889.

Application filed September 18, 1888. Serial No. 235,692. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. NEELY, of
Lynn, county of Essex, State of Massachu-
setts, have invented an Improvement in
Presser-Feet for Sewing-Machines, of which
the following description, in connection with
the accompanying drawings, is a specification,
like letters on the drawings representing like
parts.

This invention relates to improvements in
sewing-machines, and has for its object to
provide a two-needle machine with inde-
pendent presser-feet, adapted to not only hold
the work adjacent to the needles, but also to
serve as a bridge between the needles, pre-
venting them from fouling when in opera-
tion.

In accordance with this invention, the usual
roller presser-foot is employed, and an inde-
pendent foot is connected with the presser-
bar, preferably so as to yield, said indepen-
dent foot occupying a position between the
two needles of the needle-bar.

The under face of the independent yield-
ing presser-foot is shaped to correspond sub-
stantially with the contour of the roller press-
er-foot to act or bear upon the work.

Figure 1 shows in end view the roller
presser-foot, a portion of the needle-bar, the
needles, and the independent presser-foot em-
bodying this invention; Fig. 2, a side view of
the parts shown in Fig. 1; and Fig. 3, a de-
tail of the independent presser-foot, to be re-
ferred to. Fig. 4 is an enlarged detail section
on line *xx* of Fig. 3.

The roller presser-foot *a*, connected to the
bracket or arm *b*, attached to or forming part
of the usual presser-bar, *c*, the needle-bar *d*,
its needles 2 3, and the throat-plate *e* are all
as usual, so need not be further described.

An independent presser-foot, *f*, is loosely
connected with the presser-bar *c* by a pin, *f'*,
passing through suitable ears, *f''*, secured to
the bracket or arm which carries the roller
presser-foot. A spring, *f'''*, is interposed be-
tween the bracket or arm *b* and the said in-
dependent foot *f*, the tendency of which is to
normally press the foot down upon the work.

The under face or contour of the presser-
foot *f* is curved substantially like the cor-
responding contour of the roller presser-foot
a. The presser-foot *f* occupies a position be-
tween the two needles 2 3, to thereby serve as
a bridge or obstruction between them to pre-
vent fouling when in operation.

The presser-foot *f* is made slightly Λ -shaped
in cross-section, so as to present as wide a
contact or bearing surface as possible and
yet permit the free and unobstructed passage
of the needles. In other words, said foot is a
thin but rigid blade-like device with inclined
sides, and is arranged edgewise vertically
between the two closely-adjacent needles,
with its thinnest or sharpest edge upward to
guide or deflect the needles to proper posi-
tions as they descend should they be slightly
sprung or bent, and thus keep them from
fouling, said rigid foot, owing to the spring
f''' and the pivot pin or screw *f'*, having a
yielding connection with the shaft or arm *b*.

In operation it will be seen that each press-
er-foot, as *a f*, occupies a position at the same
or corresponding side of its needle, and the
presser-foot *f*, being made yielding, as pro-
vided for by the spring, acts independently
of the presser-foot *a*—that is to say, it may
rise and fall to compensate for irregularities
in or on the surface of the work irrespective
of the movement of the presser-foot *a*.

It will also be seen that the independent
presser-foot *f* serves to act or bear upon the
work to hold it firmly in substantially the
same manner as the presser-foot *a*.

It is obvious that the independent foot *f*
might be attached directly to the presser-bar,
in lieu of being attached to the bracket or
arm carrying the roller presser-foot, as herein
shown.

I claim—

1. In a sewing-machine having two closely-
adjacent needles, the combination, with a
roller presser-foot, of an independent presser-
foot consisting of a thin blade-like device
arranged edgewise vertically between said
needles, substantially as set forth.

2. In a sewing-machine having two closely-

adjacent needles, the combination, with a roller presser-foot, of an independent presser-foot consisting of a thin blade-like device arranged edgewise vertically between said
5 needles and having a yielding or spring connection with the arm or shank to which it is attached, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM A. NEELY.

Witnesses:

BERNICE J. NOYES,

HOWARD F. EATON.