

(No Model.)

L. MUTHER.
GUIDE FOOT FOR SEWING MACHINES.

No. 541,493.

Patented June 25, 1895.

Fig. 2.

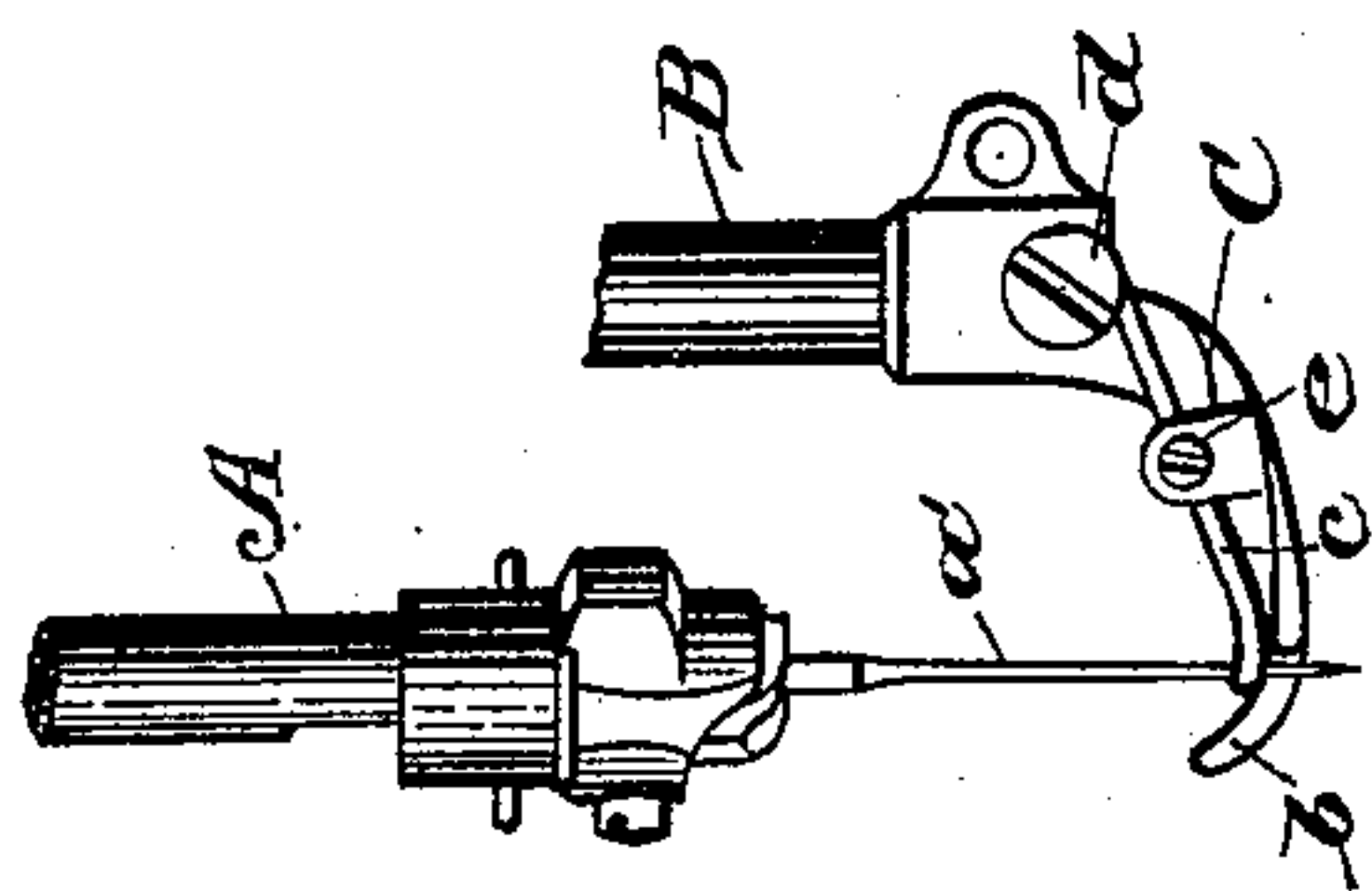


Fig. 3.

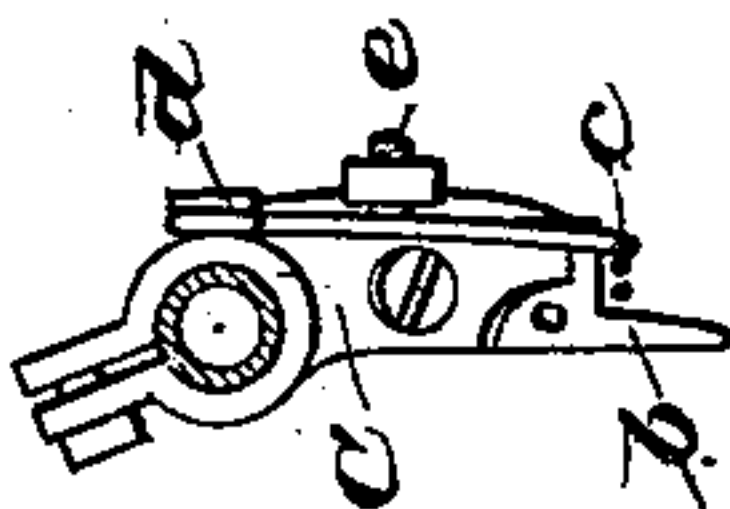


Fig. 4.

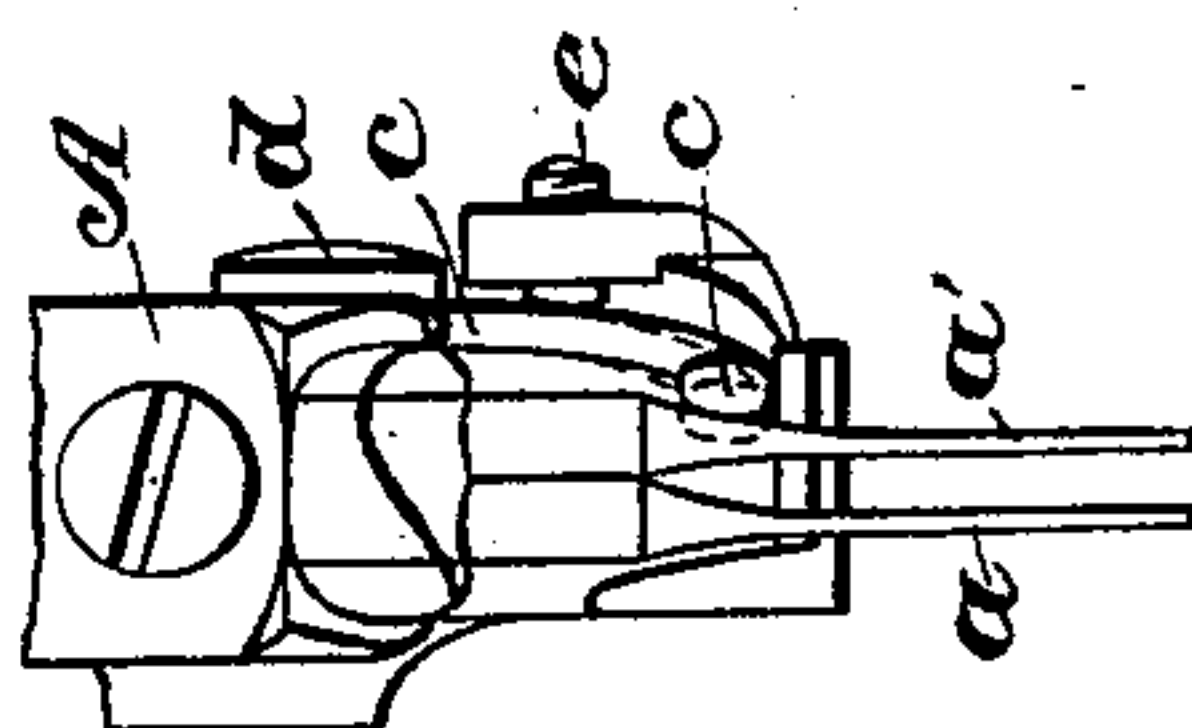
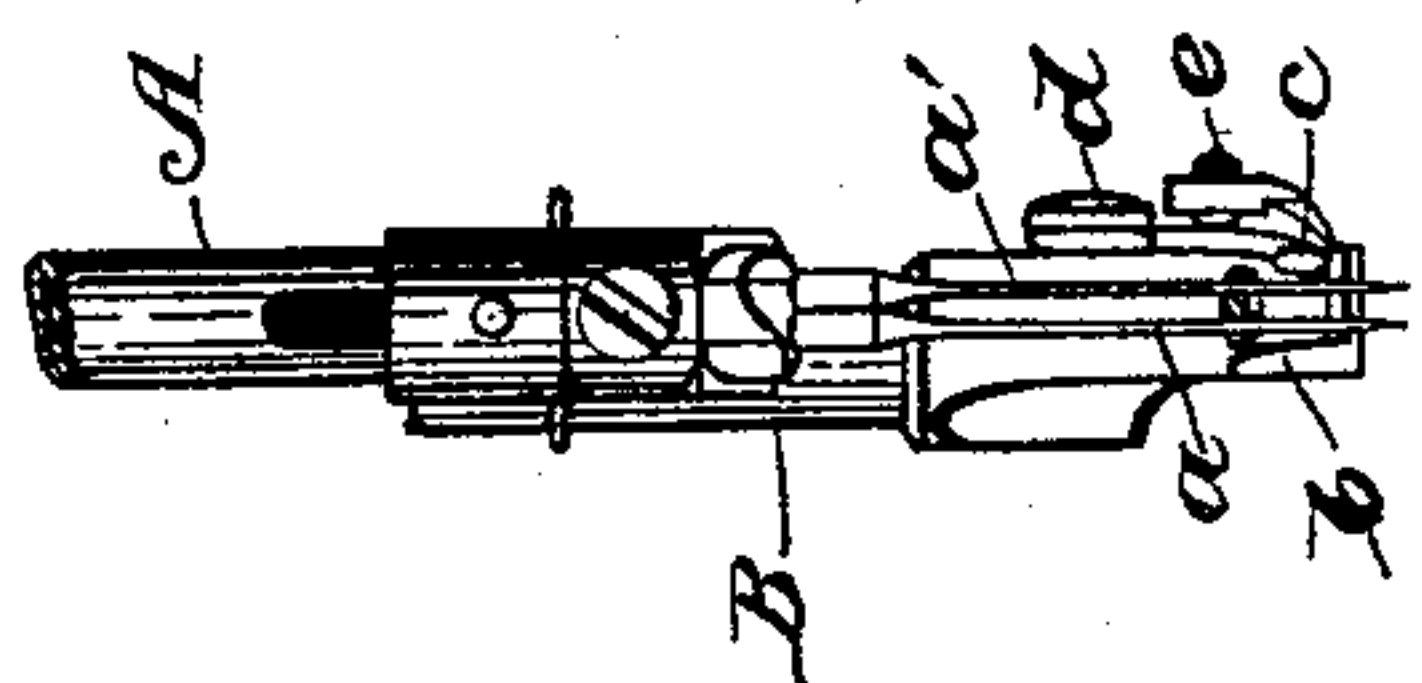


Fig. 1.



Witnesses,
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UNITED STATES PATENT OFFICE.

LORENZ MUTHER, OF OAK PARK, ASSIGNOR TO THE UNION SPECIAL SEWING MACHINE COMPANY, OF CHICAGO, ILLINOIS.

GUIDE-FOOT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 541,493, dated June 25, 1895.

Application filed July 12, 1894; Serial No. 517,344. (No model.)

To all whom it may concern:

Be it known that I, LORENZ MUTHER, a citizen of the United States, residing at Oak Park, in the county of Cook, State of Illinois, have
5 invented certain new and useful Improvements in Guide-Feet for Sewing-Machines, of which the following is a description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

10 My invention relates to an improvement in sewing machines and I have designed the same for use especially in connection with sewing machines using a rolling presser foot, and it comprises an improved construction of needle
15 guide foot. It will be obvious, however, that the device may be used itself as a presser foot, and I propose to cover the same broadly no matter in what connection it may be employed.

20 In the use of the ordinary bifurcated needle guide foot, in which the needles pass down between the prongs, it frequently happens that in the extreme lowest position of the needles, they will break off a prong of the foot, and it is customary to make the lower part
25 of the foot removable, so that when a prong is broken, it will not be necessary to supply an entirely new foot, but only a part thereof.

30 It is the object of my invention, however, to provide a yielding prong on the foot so that when the wedging action of the needles in their lowest position takes place, the same will give under the side pressure of the needles and not break, and this is applicable either to a foot made of one piece, or more.

35 The invention therefore consists in the matters hereinafter described and referred to in the appended claims.

40 In the accompanying drawings, which illustrate my invention, Figure 1 represents a front elevation of so much of a sewing-machine as is necessary to a correct understanding of my invention. Fig. 2 is a side elevation of my guide-foot. Fig. 3 is a top plan view, and Fig. 4 is an enlarged end view, showing the needles
45 in their lowest position.

50 In the drawings A represents the needle bar, herein shown as provided with two needles a a' arranged side by side. It will be understood of course that any number of needles may be used and that they may be arranged in the manner shown in patent granted to

L. Onderdonk, dated October 10, 1893, No. 506,538. The needle guide foot (or presser foot, it may be) is secured to the ordinary presser bar B and is designated by the letter C.

Instead of having two prongs between which the outer set of needles, or the needle (if a single one is used) is guided as shown in the aforesaid patent, the guide foot is formed by
60 the finger or prong c , attached at one end to the presser or guide foot shank by the screw d and at the other end projecting beyond the toe of the foot alongside the needles. This prong c is of spring metal or other suitable
65 yielding material, and is adjustable sidewise by means of the screw e , passing through the vertical ear on the foot. By means of this adjustment the prong may be shifted to act as a guide for needles arranged at varying dis-
70 tances apart and by making it to yield under strain when the needles are forced down to the extreme limit of their movement any wedging action of the needle shanks against the prongs will cause the prong c to yield and
75 avoid danger of breaking.

It will be understood that the foot itself may be unprovided with an integral prong, but that both may be removable and of yielding material, or the prong may be integral with
80 the foot, but of yielding material for the purpose described.

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

85 1. A needle guide foot comprising a body portion adapted to bear upon the goods and having a laterally yielding prong or prongs on its forward end whereby when the needles are forced down to the extreme limit of their
90 movement any wedging action of the shanks will cause the prong to move sidewise and not break; substantially as described.

2. A needle guide foot, comprising a body portion adapted to bear upon the goods, and
95 having a laterally yielding and adjustable prong or prongs on its forward end; substantially as described.

3. The herein described needle guide foot comprising the body portion with the prong
100 on the toe thereof, and the laterally yielding spring tongue or prong, secured at one end to

the foot, and projecting beyond the forward end thereof, with means for adjusting said tongue or prong sidewise; substantially as described.

- 5 4. The herein described needle guide foot comprising the body portion with the prong on the toe thereof, and the yielding tongue or prong secured at one end to the foot and projecting beyond the forward end thereof, a ver-
10 tical ear on the body portion of the foot, and

a set screw passing therethrough and bearing on the side of the yielding prong; substantially as described.

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

LORENZ MUTHER.

Witnesses:

CHESTER MCNEIL,
MORTON MCNEIL.