Oct. 17, 1933. F. E. STRUVE 1,931,301

STOCKING INSERT FEEDING APPARATUS

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Fig. 1.

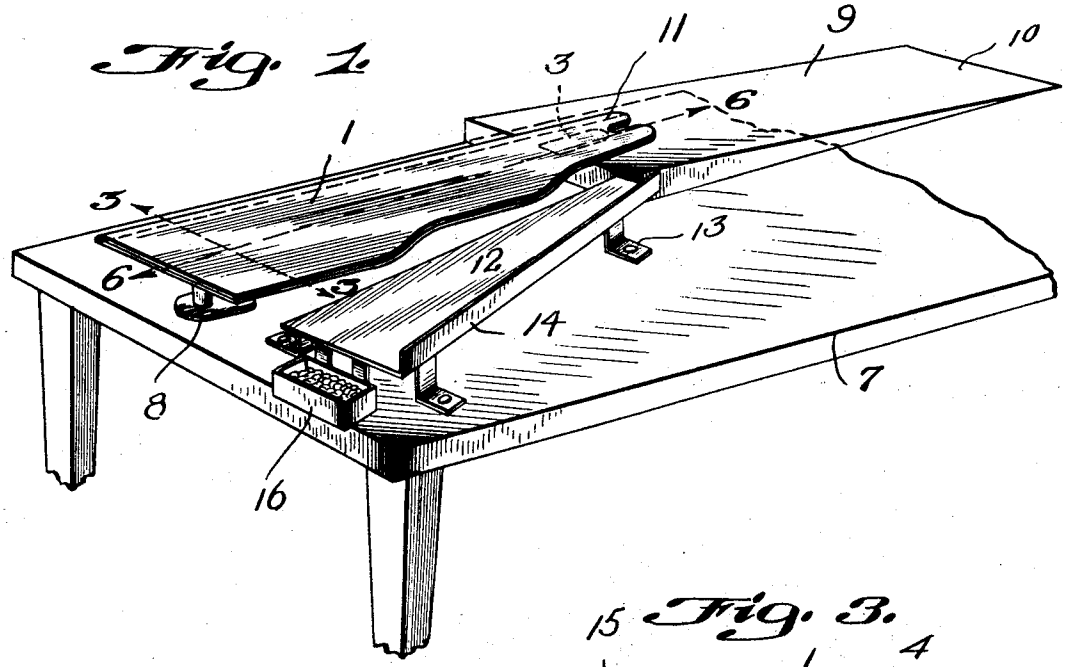


Fig. 3.

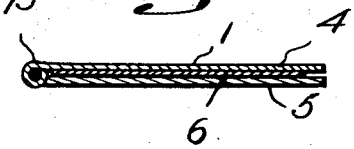
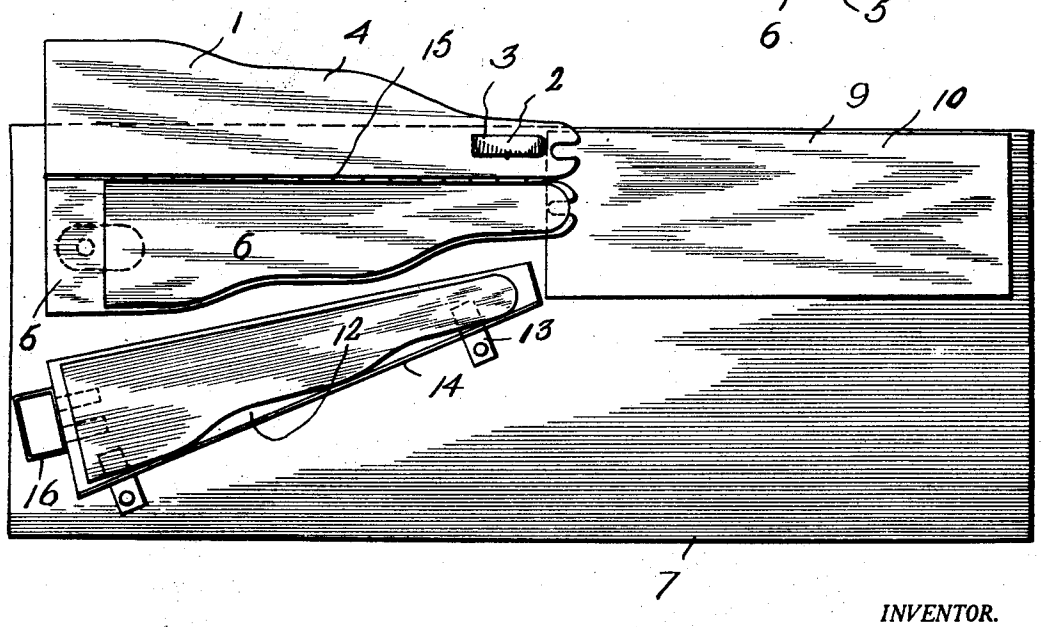


Fig. 2.



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Fig. 4.

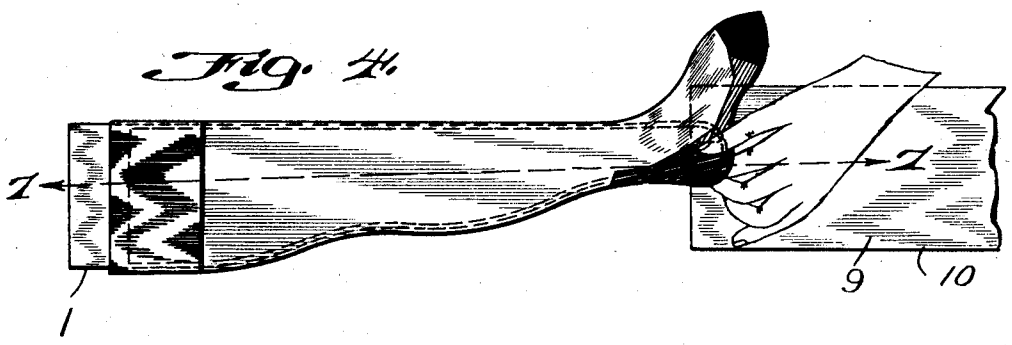


Fig. 5.

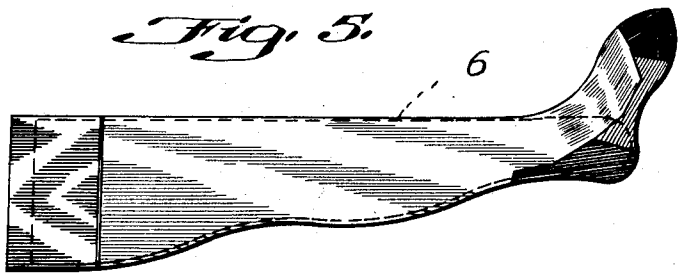


Fig. 6.

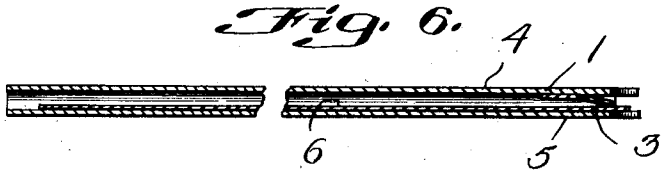


Fig. 7.

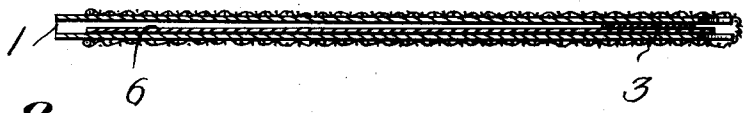


Fig. 8.

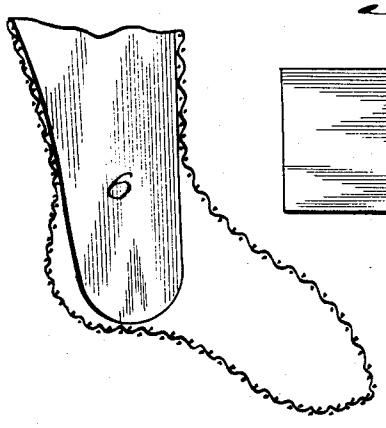
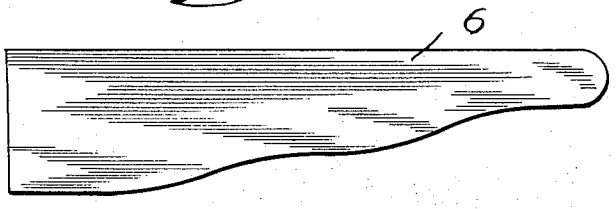


Fig. 9.



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UNITED STATES PATENT OFFICE

1,931,301

STOCKING INSERT FEEDING APPARATUS

Frederick Elwood Struve, Philadelphia, Pa., assignor to Apex Hosiery Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 13, 1932. Serial No. 592,781

1 Claim. (Cl. 223—59)

This invention relates to an apparatus for inserting paper strips into stockings and more particularly to an improvement over that form of my device shown in my co-pending application filed November 28th, 1931, Serial Number 577,855 and the primary object of my invention is to include additional devices in the apparatus whereby the efficiency of the apparatus may be greatly increased.

An object of the invention resides in corelating with the inserting device a shelf for receiving the stocking as drawn from the device and a tray arranged so as to support the paper inserts in convenient position to be moved one at a time into the inserting device.

Another object of the invention resides in providing the inserting device with companion hinged plates between which is arranged a spring presser for yieldably holding the paper insert against accidental displacement within the device.

Besides the above my invention is distinguished in the novel design and corelation of the inserting device, shelf and tray whereby the speed of depositing inserts into stockings is considerably increased.

With these and other objects in view the invention will be better understood from the following detailed description taken in connection with the accompanying drawings wherein:

Figure 1 is a perspective view of the apparatus.

Figure 2 is a top plan view with the device in open position.

Figure 3 is a sectional view on the line 3—3, Figure 1.

Figure 4 is a plan view with the stocking in place.

Figure 5 is a plan view with the stocking removed.

Figure 6 is a sectional view on line 6—6, Figure 1.

Figure 7 is a sectional view on line 7—7, Figure 4.

Figure 8 is a detail view of the heel pocket with the insert in position.

Figure 9 is a plan view of the paper insert or strip.

Again referring to the drawings in detail, the numeral 1 designates the inserting device constructed in accordance with the features of the device set forth in the above entitled co-pending application but slightly modified in that I include a spring presser 2 illustrated as a spring 3 having one end secured to the top plate 4 and its other end arranged to yieldably bear upon the bottom plate 5 thereby yieldably holding the paper insert 6 against accidental displacement when the companion plates 4 and 5 are moved into paralleling relation. The inserting device is shown mounted on a table top 7 and in spaced relation therewith through the use of a support 8.

Also arranged upon the table top 7 is a shelf 9 having an inclined top 10 that passes under and in spaced relation with the spreader 11 of the device so that in the drawing of the stocking from the device it is dropped upon the shelf 9 where it may be smoothed out or folded.

I also include in my invention a tray 12 that is supported by legs 13 in horizontal spaced relation with the bottom plate 5 so that a stack of inserts arranged on the tray may be very readily moved one at a time onto the bottom plate 5. The tray 12 is further provided with a back flange 14 for holding the inserts in proper position.

In the use of the apparatus a stack of paper inserts is arranged on the tray 12. The operator then lifts the top plate 4 upwardly through the use of the hinge 15. A paper insert is then drawn from the stack and placed upon the bottom plate 5. After this has been accomplished the plate 4 is swung into parallel relation with the plate 5, the spring 3 yieldably engaging the paper insert to prevent accidental displacement thereof. A stocking is drawn onto the device and the heel pocket with the paper insert therein gripped and drawn from the device in a manner set forth in my co-pending application. In the drawing of the stocking from the device it drops upon the shelf 9 where the same is smoothed out or folded, whatever is advisable.

With some operators it is advisable to moisten the fingers slightly to facilitate the movement of the inserts into engagement with the device and for such individuals I provide a moistening box 16 at the end of the tray.

What I claim is:

In an apparatus of the character described, a paper insert feeding device comprising companion plates hinged together and a spring having one end connected to one of the plates and adapted to yieldably engage the other plate when the plates are in paralleling relation.

FREDERICK ELWOOD STRUVE.