

H. M. GREIST.
SEWING MACHINE BUFLER.
APPLICATION FILED DEC. 20, 1910.

1,043,097.

Patented Nov. 5, 1912.

FIG. 1

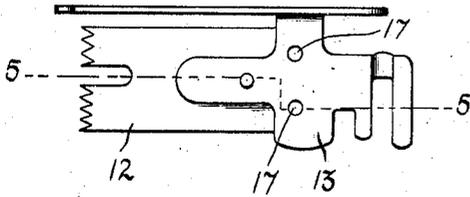


FIG. 2

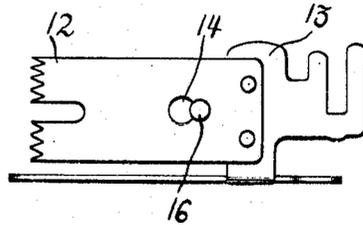


FIG. 3

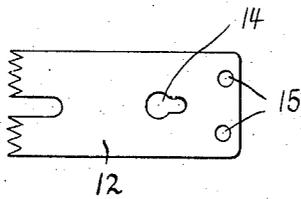


FIG. 4

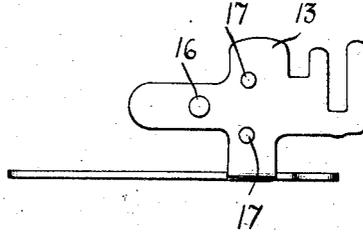
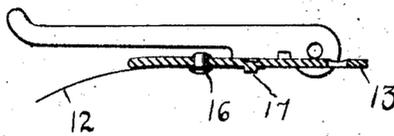


FIG. 5



WITNESSES:

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UNITED STATES PATENT OFFICE.

HUBERT M. GREIST, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE GREIST MANUFACTURING COMPANY, OF NEW HAVEN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

SEWING-MACHINE RUFFLER.

1,043,097.

Specification of Letters Patent.

Patented Nov. 5, 1912.

Application filed December 20, 1910. Serial No. 598,275.

To all whom it may concern:

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

This invention relates to sewing machine rufflers and has for its object to provide a detachable attachment for a ruffling blade to its carrier and which detachable attachment is of such construction as to permit the ruffling blade to be readily removed, in case it should become worn or bent when in use, so that a new ruffler blade may be readily inserted in its place. It is impracticable to secure ruffling blades to their carriers by screws, owing to the fact that the screws are liable to work loose, and it has usually been the practice to permanently secure ruffling blades to their carriers by means of rivets, so that it is practically impossible for the ordinary user to remove them, when bent or worn.

In accordance with the present improvement the ruffling blade is provided with a single, centrally-located keyhole slot to receive a headed rivet on the carrier, and the said blade is provided near its rear end with two holes adapted to receive two studs on the carrier, the said studs being preferably formed by being punched out of the stock of the carrier so as to be integral therewith. With this construction the head of the rivet may be inserted through the larger portion of the keyhole slot in the ruffling blade and the said blade may then be drawn forward to bring the smaller portion of the keyhole slot into register with the shank of the rivet, and also to bring the two holes in the ruffling blade into register with the studs on the carrier, when the thin, steel ruffling-blade will spring into engagement with the said studs, and the ruffling blade will then be securely attached to its carrier.

In the accompanying drawings Figure 1 is a top view of a ruffling blade and its carrier embodying the present invention. Fig. 2 is a bottom view of the same. Figs. 3 and 4 are bottom views of the ruffling blade car-

rier and ruffling-blade, respectively, detached from each other. Fig. 5 is a longitudinal section on line 5-5, of Fig. 1.

Referring to the drawings, 12 denotes the ruffling blade and 13 the ruffling blade carrier. The ruffling blade is provided with a centrally-located keyhole slot 14, and is also provided, near its rear end, with two small holes 15. The carrier 13 is provided with a permanently-attached rivet 16 having a somewhat enlarged head which stands out from the bottom of the carrier a sufficient distance so that the ruffling blade may be received between the head of said rivet and the bottom of said carrier. The ruffling blade carrier is also provided with two studs 17 preferably integral therewith, and formed by partly punching out the stock of the carrier.

In applying the ruffling blade to its carrier the enlarged head of the rivet 16 is received in the larger portion of the keyhole slot 14 of the ruffling blade, and the latter is then drawn forward to cause the walls of the smaller portion of said keyhole slot to embrace the shank of the said rivet and to bring the holes 15, near the rear end of the ruffling blade, into register with the studs 17, when the said blade will spring onto said studs in such a manner as to permanently and securely attach the ruffling blade to its carrier. When it is desired to remove the ruffling blade from the carrier it is only necessary to disengage the rear end of the ruffling blade from the studs 17 by inserting a pointed instrument, as a knife blade, between the ruffling blade and the carrier, so as to separate the parts slightly to disengage the studs 17 from the ruffling blade, and the latter may then be slid rearward to bring the rivet 16 into register with the larger portion of the keyhole slot 14, when the ruffling blade will be entirely released.

I am aware that it has heretofore been proposed to removably attach ruffling blades to their carriers by means of keyhole slots, rivets and pins, as shown and described in Patent No. 756,885, granted April 12, 1909, to W. R. Parsons. The Parsons construction, however, requires the use of two rivets attached to the ruffling blade carrier, and it has been found difficult, in practice, to

set these two rivets in such a way that the ruffling blade will be accurately and straightly mounted on its carrier, and although the Parsons patent is owned by
5 the assignee of my invention the Parsons construction has been superseded by my present improved construction which is not only cheaper to make, but provides a more accurate attachment, as well as one in which
10 the ruffling blade may be more easily removed than with the Parsons construction. Also, in the present improved construction, by forming the studs 17 simply by punching out the stock of the carrier, the use of
15 a separate attaching pin, as provided for by the Parsons construction, is obviated.

Having thus described my invention I claim and desire to secure by Letters Patent:

In a sewing machine ruffler, the combination with a ruffling blade carrier provided with a centrally-disposed rivet and two integral or struck-out studs, of a ruffling blade provided with a centrally disposed keyhole slot, to register with said rivet, and with two holes near its rear end arranged to register with said studs.

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

HUBERT M. GREIST.

Witnesses:

W. C. GREIST,

GEO. H. BEEBE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."