April 25, 1933. J. D. KARLE 1,905,907

WORKHOLDER FOR SEWING MACHINE DARNING OPERATIONS

Filed Aug. 26, 1931

Fig. 1.

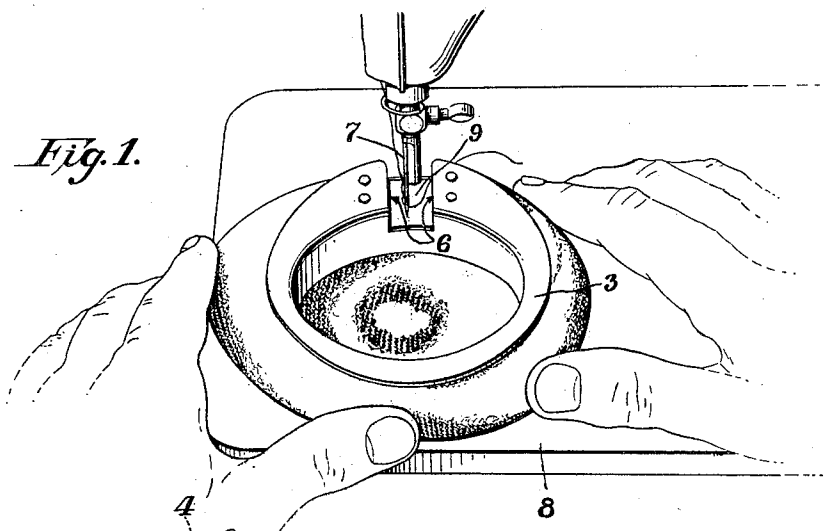


Fig. 2.

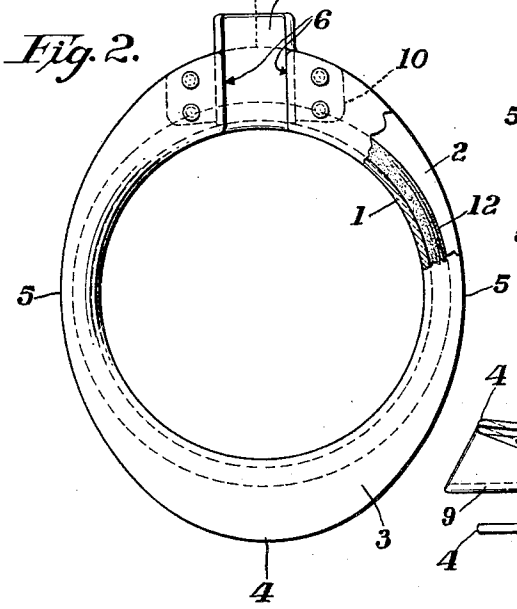


Fig. 3.

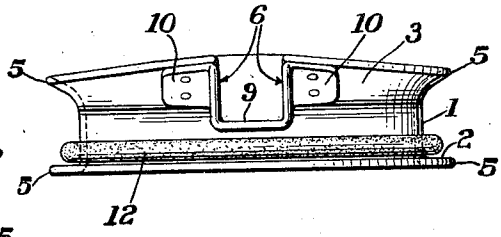
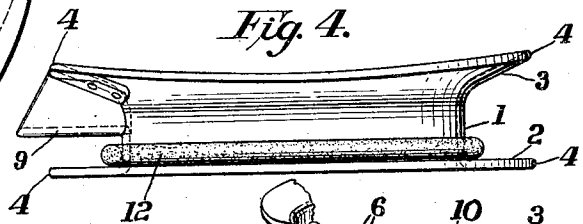


Fig. 4.



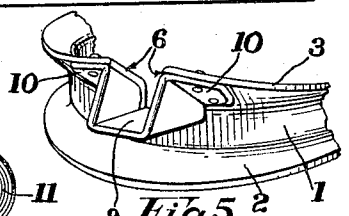


Fig. 5.

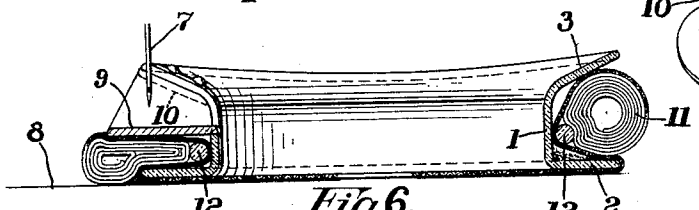


Fig. 6.

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1,905,907

UNITED STATES PATENT OFFICE

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WORKHOLDER FOR SEWING MACHINE DARNING OPERATIONS

Application filed August 26, 1931. Serial No. 559,398.

This invention relates to devices for holding a stocking or the like for convenient movement by hand under the needle of an ordinary sewing machine in darning operations.

The invention has for an object to provide a stocking darning work-holder of simple and inexpensive construction effective to hold stretched the portion of the stocking to be darned while holding the surrounding portion or roll of the stocking securely out of the path of the sewing machine needle and in a position where it will not interfere with the handling or manipulation of the device during the sewing.

A further object of the invention is to provide the device with means to prevent tearing of the stocking by the point of the needle in inserting and removing the device in and from sewing position in the machine.

With the above and other objects in view, as will hereinafter appear, the invention comprises the devices, combinations and arrangements of parts hereinafter set forth and illustrated in the accompanying drawing of a preferred embodiment of the invention, from which the several features of the invention and the advantages attained thereby will be readily understood by those skilled in the art.

Fig. 1 of the drawing is a perspective view of a work-holder embodying the invention and shown as it is being slipped under the needle of a sewing machine. Fig. 2 is a top plan view of the device. Figs. 3 and 4 are side elevations of the device. Fig. 5 is a fragmentary perspective view of the device, and Fig. 6 is a transverse vertical section through the device with a stocking assembled therewith and being passed under the needle of a sewing machine.

The work-holder illustrated comprises a one-piece annular body formed with an intermediate cylindrical wall portion 1, a flat lower flange 2 and dished upper flange 3; which flanges extend outwardly from the intermediate cylindrical portion 1. The flanges 2 and 3 are oval or elliptical in plan; being more pointed or sharply curved at their ends 4 than at their sides 5. The elliptical shape of the flanges 2 and 3 affords deep throats between the more sharply curved ends 4, 4 for secure reception and confinement of the stocking roll without making the device as a whole of too great a diameter for ready insertion into the foot or toe-portion of a stocking.

The upper flange 3 of the device is provided with a gap 6 to clear the needle 7 of the sewing machine when the device is slid along the sewing machine bed 8 to sewing position.

A guard 9 is provided at said gap 6 to hold the stocking roll depressed below the point of a sewing machine needle. The guard 9 may be a trough-shaped element bent up from sheet-metal and having attaching feet 10 riveted to the flange 3. The stocking is thus effectively protected from injury by the sewing machine needle-point during insertion and removal of the holder.

To use the device, it is slipped into the stocking with the flat flange 2 uppermost. If the hole to be darned is in the toe of the stocking, the needle-guard channel 9 should be directed toward the toe. If the hole to be darned is in the heel, the guard 9 should be directed away from the toe. This will cause the bulkier portion 11 of the stocking roll to lie in the large throat diametrically opposite the guard 9.

The stocking is drawn taut over the flange 2 and a strong rubber ring 12 is slipped over the stocking and into the groove adjacent the wall 1 to hold the material firmly stretched and in place. The surplus portion of this stocking is then preferably formed into a compact roll which is fitted into the groove between the flanges 2 and 3 and under the guard 9, as shown in Figs. 1 and 6.

With the sewing machine needle 7 at its highest point, the guard 9 may be slipped under the needle and the darning operation performed in the usual manner, without danger of tearing the stocking on the point of the needle.

The dishing of the upper flange 3 affords increased visibility of the field of sewing operations, at the same time affording ample

room between the flanges for holding the stocking roll.

Having thus set forth the nature of the invention, what I claim herein is:—

1. A stocking darning work-holder comprising a ring-shaped member having a gap for the clearance of a sewing machine needle, and a needle-guard at said gap.

2. A stocking darning work-holder comprising a ring-shaped member having a gap for the clearance of a sewing machine needle, a needle-guard at said gap, and means below said guard for holding a portion of a stocking stretched over said ring-shaped member.

3. A stocking darning work-holder comprising, a grooved ring having a sewing opening and elliptical flanges, said flanges extending outwardly beyond said sewing opening a greater distance in the direction of their major axes than in the direction of their minor axes and means in said groove for holding a portion of a stocking stretched over one of said flanges.

4. A stocking darning work-holder comprising a grooved ring having upper and lower flanges, the upper flange being formed with a gap, and a guard below the upper flange for holding a stocking roll depressed.

5. A stocking darning work-holder comprising a grooved ring having upper and lower flanges, the upper flange being formed with a gap, and a trough-shaped needle-guard at said gap for holding a stocking roll depressed below the point of a sewing machine needle.

6. A stocking darning work-holder comprising a grooved ring having upper and lower elliptical flanges, said upper flange being formed in one of its more sharply curved portions with a gap, and a needle-guard at said gap.

7. A stocking darning work-holder comprising a grooved ring having an intermediate portion, a lower flat flange and an upper dished flange, said flanges being elongated diametrically of and relative to said intermediate portion so as to extend outwardly from said intermediate portion greater distances along one diameter than along a transverse diameter.

8. A stocking darning work-holder comprising a grooved ring including an intermediate portion, a lower flat flange and an upper dished flange, said upper flange having a gap and a channel-shaped guard at said gap.

In testimony whereof I have signed my name to this specification.

JOHN D. KARLE.