

UNITED STATES PATENT OFFICE.

CHARLES G. AKAM, OF CHICAGO, ILLINOIS.

DARNING DEVICE TO BE USED WITH SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 223,975, dated February 3, 1880.

Application filed April 30, 1878.

To all whom it may concern:

Be it known that I, CHARLES G. AKAM, of the city of Chicago, county of Cook, and State of Illinois, have invented an article, a Darner or a Darning Device, to be used in connection with a sewing-machine for darning, mending, or filling holes in fabrics, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

Figure 1 of drawings shows metallic band provided with a groove around it and a series of notches on the upper surface. Fig. 2 shows section of plain band, to be used in connection with band in Fig. 1. Fig. 3 shows side view of Fig. 1. Fig. 4 shows band, Fig. 1, with thread drawn from side to side, and secured around the notches. Fig. 5 shows fabric with hole through, and placed under threads drawn and secured therein. Fig. 6 shows the darner placed with threads drawn and secured, and fabric with hole under the needle of sewing-machine.

Like references indicate like parts in the several figures of drawings.

A represents the metallic band. It may be in any form convenient. It is slightly beveled, and is provided with a groove running around it, and on the top surface are notches *a a* cut in the band. The notches form teeth, and the teeth have slight outward projection, so as to securely hold thread *b* when drawn around them, and are placed opposite on the sides of the bands, so as to hold the threads *b* when drawn from side to side in parallels, leaving spaces between each thread drawn and fastened around the teeth *a a*, so as to supply a material for the stitches from the sewing-machine to fill in and across the drawn threads, thereby producing a firm and filled surface.

When the band A is threaded, as shown in Fig. 4, then the fabric *c*, with a hole through, is placed over the band A and threads *b*, the hole to be placed so that the drawn threads *b* will cover the hole. The fabric *c* is secured by placing an elastic band, B, around the outside of all, as shown in Fig. 5. Thus secured the same is placed under the sewing-machine needle. The outer surface of the fabric is placed under or on the surface of the sewing-machine table, leaving the drawn threads *b* uppermost or on top, as shown in Fig. 6, then putting the sewing-machine in motion and stitching across the drawn threads, and moving the darner from side to side under the sewing-machine needle. (See Fig. 6.) The stitches made by the sewing-machine catching into the edge of the fabric *c*, and continuously sewing across the drawn threads *b*, will fill the hole in the fabric *c*, and form as smooth and even surface as the fabric is composed of, thereby weaving, darning, mending, and filling the hole in fabrics in an easy way, and of a perfect and substantial material.

B shows section of band used to secure fabric *c* over drawn threads *b*.

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

A metallic beveled band provided with a groove around the same near its upper edge, and a series of notches cut in the upper surface of the band, forming teeth to hold the thread, substantially as and for the purpose specified.

CHARLES G. AKAM.

Witnesses:

GEORGE BANCROFT,
GILBERT F. BIGELOW.

C. G. AKAM.
 Darning Device to be used with Sewing-Machines.
 No. 223,975. Patented Feb. 3, 1880.

Fig. 1.

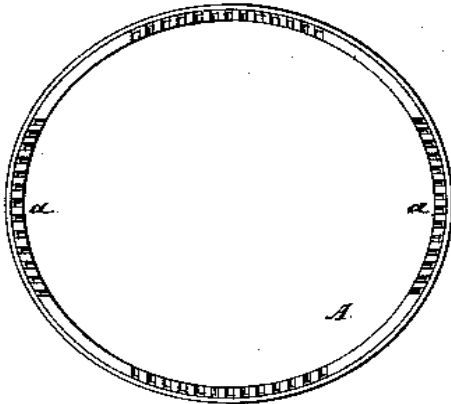


Fig. 4.

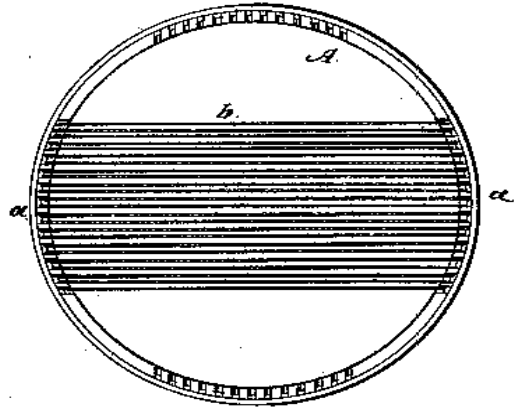


Fig. 2.

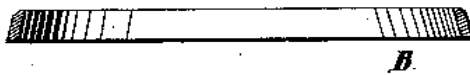


Fig. 5.

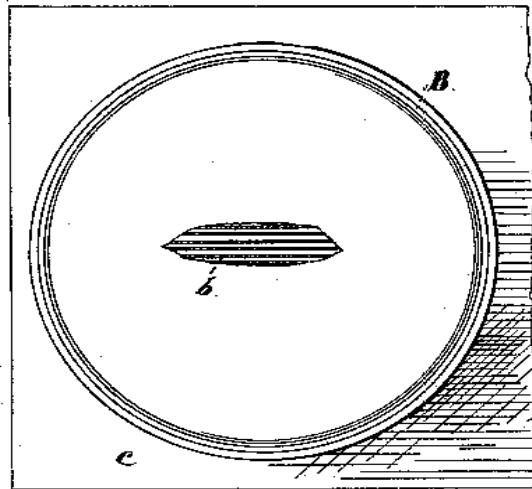


Fig. 3.

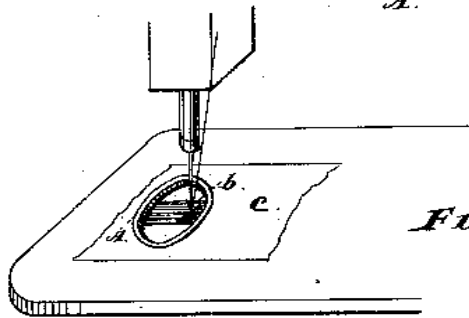
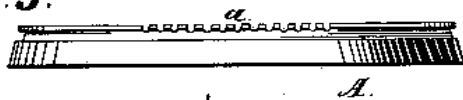


Fig. 6.

Witnesses:
 Frederick B. Goodwin
 Frank N. Baker

Inventor:
 Charles G. Akam
 By C. B. Brownell
 His Attorney in fact