

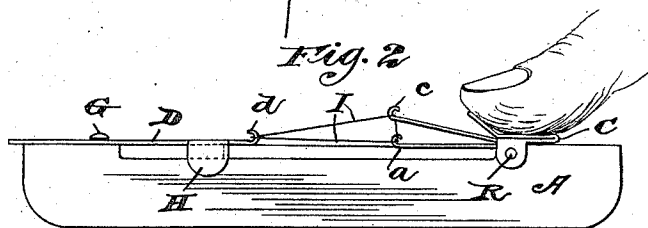
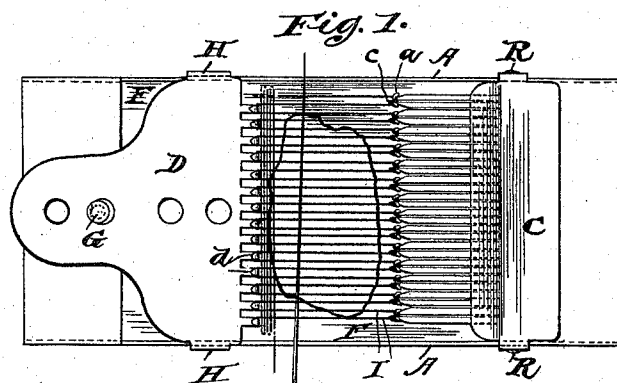
(No Model.)

2 Sheets—Sheet 1.

M. S. SCHAFOR.
DARNING IMPLEMENT.

No. 575,378.

Patented Jan. 19, 1897.



Witnesses,

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Inventor,

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M.S.

(No Model.)

2 Sheets—Sheet 2.

M. S. SCHAFOR.
DARNING IMPLEMENT.

No. 575,378.

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Fig. 5.

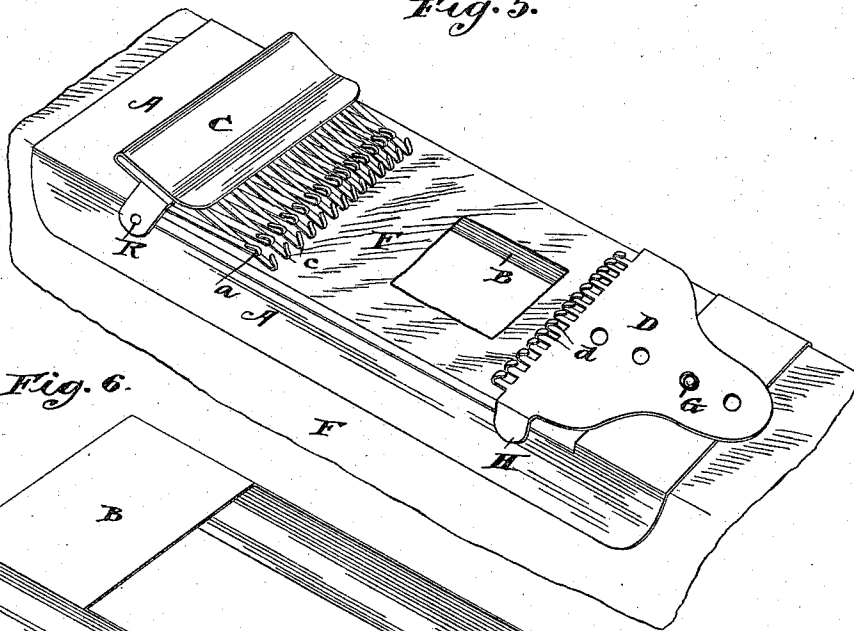
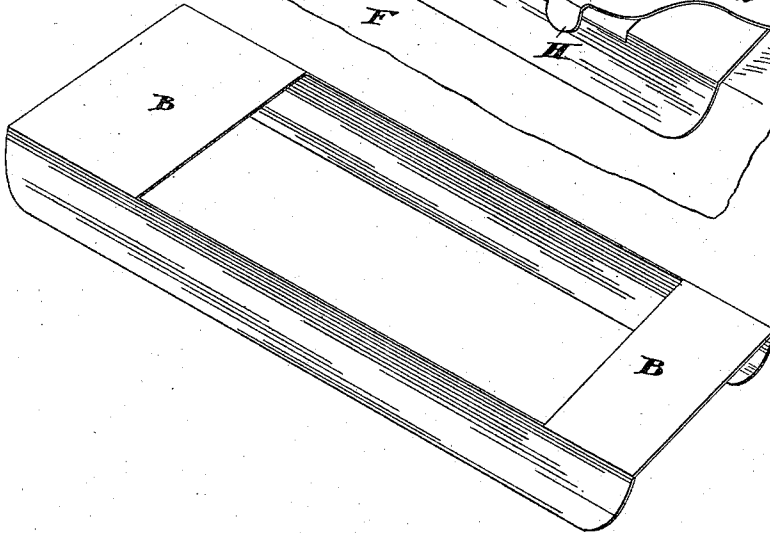


Fig. 6.



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UNITED STATES PATENT OFFICE.

MARY S. SCHAFOR, OF CHICAGO, ILLINOIS.

DARNING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 575,378, dated January 19, 1897.

Application filed December 2, 1895. Serial No. 570,867. (No model.)

To all whom it may concern:

Be it known that I, MARY S. SCHAFOR, of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Darning Implement; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

This invention relates to a darning implement which is used for darning rents or apertures in garments, hosiery, &c.; and the object of the invention is to provide a simple implement of this character by means of which a rent may be quickly and neatly darned.

The implement comprises in its construction a base or table having an opening in its upper surface over which the rent or aperture in the article to be darned is placed. A frame of the same contour as the table and fitting snugly to the sides thereof and preferably composed of spring metal is placed upon the table over the goods and by its resiliency clamps the fabric in place upon the table. The frame carries three sets of hooks, one of which is stationary upon the frame and preferably formed integrally therewith. A second set of hooks are mounted upon a head carried by the frame, which head is preferably adjustable to and from the stationary set of hooks. A third set of hooks are carried by a rocking plate pivotally mounted upon the frame, the latter set of hooks being adapted to work between the stationary set of hooks, so as to carry the one set of the warp-threads alternately above and below the other set.

The invention consists in the devices and combinations of devices which are hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of the darning implement arranged for use. Fig. 2 is a side elevation showing the set of oscillating hooks raised. Fig. 3 is a longitudinal sectional elevation showing the oscillating set of hooks depressed, the dotted lines showing the raised position of the same hooks. Fig. 4 is a transverse sectional view. Fig. 5 is a perspective view showing the fabric to be mended clamped in place, and Fig. 6 is a perspective view of a table of sheet metal.

In the drawings, A represents the outer frame, which is preferably made of sheet metal and may be stamped complete from a single piece. It has an opening in its upper surface, and its vertical side members are adapted to embrace a table B, which is of similar form, having an opening in its upper surface registering with the opening in the outer frame. This table is also preferably constructed of sheet metal stamped up in a single piece. The frame A is provided with a series of hooks *a*, which are preferably formed integrally with the material of said frame. These hooks are turned upwardly, and their extremities are oblique to the line of their bodies and turn in the same direction.

C represents a plate pivoted upon the frame A by lugs R and which is provided with a series of hooks *c*, which may be formed integrally with said plate, and said series of hooks are adapted to work between the hooks *a*. Their points are also turned obliquely to their bodies, but in opposite directions from the points of the hooks *a*.

D represents an adjustable and movable head having the lugs H embracing the sides of the frame and provided with a series of apertures adapted to engage with the stud or button G on the frame A, so as to lock the adjustable head in any position to which it may be adjusted. The head D is provided with a series of hooks *d*, whose points are turned upwardly over the bodies or shanks.

In use the fabric F is first placed over the table with the rent to be mended over the opening in such table. The outer frame is then placed over the fabric, and thereby the latter is clamped to the table, holding it in place. The darning-thread is passed up through the goods, so as to hold the end thereof, and then the thread is passed back and forth over the three sets of hooks, it being carried from over one of the hooks *d*, thence around one of the hooks *a* and one of the hooks *c*, and back and forth until the warp is laid across the rent. One set of the warp-threads being raised by rocking the plate C, as shown in Fig. 2, the thread is carried across the rent between the two sets of warp-threads, being engaged with the fabric at each side of the aperture. Then by rocking the plate and depressing the elevated set

of warp-threads and raising the other set the darning progresses, the rocking of the plate C providing the shed for the passage of the needle.

5 It will be noticed that the hooks *a* and *d* are arranged parallel to the fabric and in the same plane, and that the set of hooks *c* oscillate or vibrate, carrying one set of the warp-threads alternately above and below the set
10 which are held by the hooks *a*. The movement need be slight only in order to provide the proper shed, and this movement is imparted in a very easy and convenient manner by placing the thumb upon the rocking plate,
15 as shown in Fig. 2 of the drawings, the movement being quite natural and easily and quickly performed, and the work progresses without lifting the thumb from the plate, while the implement may lie upon the table,
20 in the lap, or be held in the hands.

I call particular attention to the peculiar construction of the hooks *a* and *c*, the points of which are oppositely-turned, and which thereby prevent the threads from slipping off
25 as the plate is rocked to form the shed. I also consider it important to provide the open table, so that the fingers of the operator may be passed up under the fabric to assist in forcing the needle through the fabric at the
30 edges of the rent.

It will be obvious from the foregoing description that by means of this implement the darning may be very neatly done. In commencing the weaving the thread is first
35 secured in the fabric by passing it through the goods and catching the alternate warp-threads, and the work is finished in like manner.

In removing the work from the implement
40 the adjustable head is drawn back until it is freed from the catch, when its hooks are disengaged from the warp-threads, and then the table may be removed and the hooks carried by the outer frame disengaged.

45 I claim—

1. A darning implement comprising in combination a table having an opening in its upper surface, a frame fitting over the table having an opening registering with the opening
50 thereof and adapted to clamp the goods upon the table, a set of stationary hooks carried by the frame at one end of the opening therein, a warp-head adjustably mounted on the frame having a set of hooks arranged at
55 the opposite side of said opening and a pivoted plate carrying the third set of hooks adapted to work in the interspaces between

the stationary set of hooks and to alternately raise and depress one set of the warp-threads as said plate is rocked upon its pivot, the set of
60 stationary hooks and the set of hooks on the pivoted plate having their points laterally inclined at an angle to their bodies but in opposite directions, substantially as described.

2. A darning implement comprising in combination, a table having an opening in its top, a frame adapted to embrace the sides of the table and to clamp the fabric to be mended thereon and provided with an opening in its upper surface registering with that of the
70 table, an adjustable warp-head carrying a set of hooks at one end of the table-opening, a set of hooks formed integrally with the frame and projecting into the opening thereof and having their points turned laterally at
75 an angle with their bodies and a pivoted plate mounted on the frame and having a series of hooks adapted to work in the interspaces between the said set of stationary hooks and having their points turned laterally at
80 an angle to their bodies but in the opposite direction to the points of the set of stationary hooks with which they cooperate, substantially as and for the purposes described.

3. A darning implement comprising in combination, a table composed of sheet metal having an opening in its body, a skeleton frame also composed of sheet metal and having flanged sides adapted to embrace the
90 sides of the table and having an opening adapted to register with the opening of the table and a series of hooks formed integrally with the frame and projecting into the plane of said opening, a warp-head mounted to slide
95 upon the frame at the opposite end of said opening and having a series of apertures therein, a hook or lug upon said frame adapted to engage the apertures and providing a fastening for the warp-head in the adjusted position and a plate formed of sheet metal doubled
100 upon itself pivoted upon the frame and having integrally formed therewith a series of hooks to engage one set of the warp-threads and adapted by its oscillation to carry said
105 set of warp-threads alternately above and below the warp-threads carried by the stationary hooks, substantially as and for the purposes described.

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