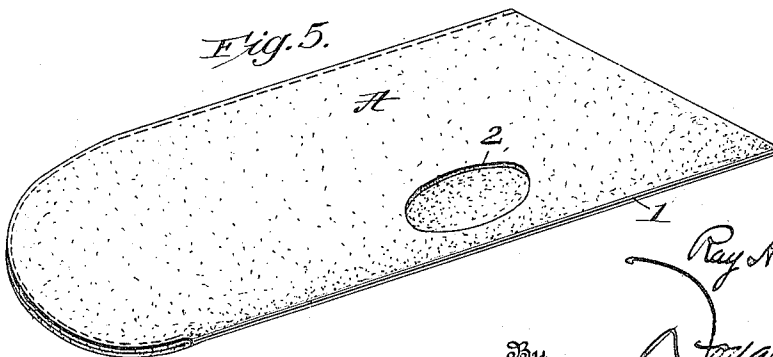
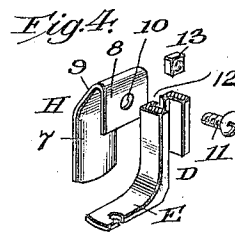
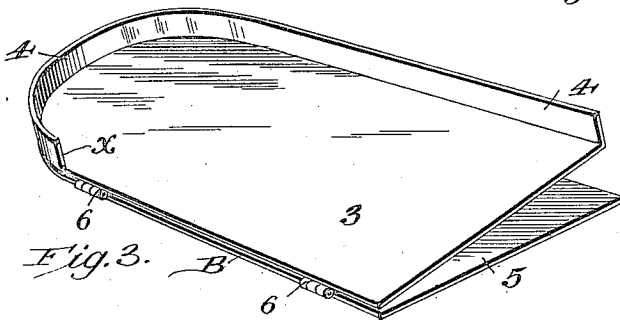
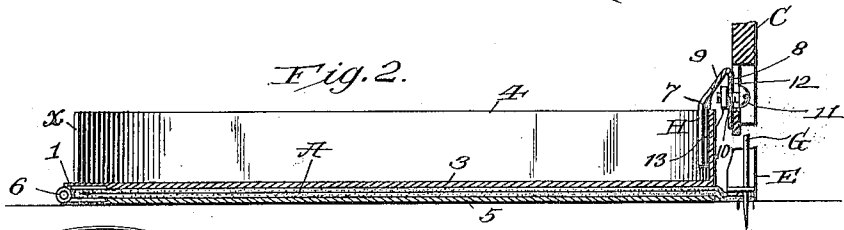
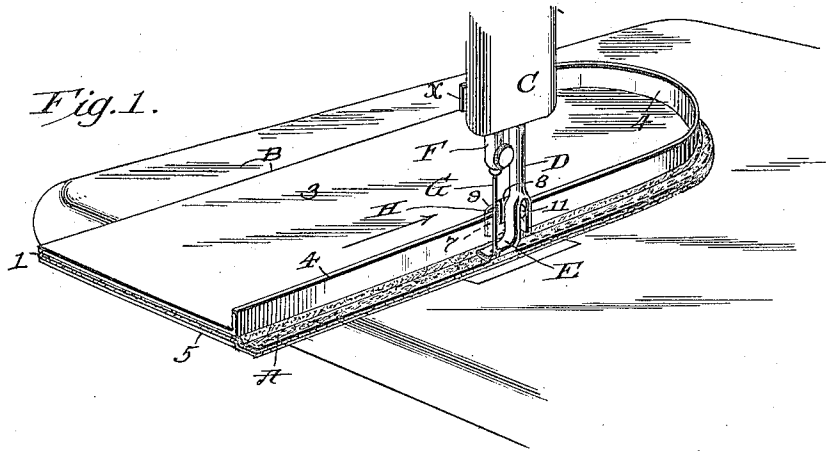


R. A. MURCHISON.
GUIDING ATTACHMENT FOR SEWING MACHINES.
APPLICATION FILED JULY 18, 1917.

1,403,094.

Patented Jan. 10, 1922.



By

Inventor:
Ray Angus Murchison,
Notary Public,
Attorneys.

UNITED STATES PATENT OFFICE.

RAY ANGUS MURCHISON, OF KEWANEE, ILLINOIS.

GUIDING ATTACHMENT FOR SEWING MACHINES.

1,403,094.

Specification of Letters Patent. Patented Jan. 10, 1922.

Application filed July 18, 1917. Serial No. 181,283.

To all whom it may concern:

Be it known that I, RAY ANGUS MURCHISON, a citizen of the United States, residing at Kewanee, in the county of Henry and State of Illinois, have invented certain new and useful Improvements in Guiding Attachments for Sewing Machines, of which the following is a specification.

This invention pertains to the manufacture of mittens, gloves, and the like, and consists in a holder or clamp for the blanks to be stitched, provided with a guiding rib or flange conforming generally to the contour of the article or to the stitching to be performed, and a guiding clip or attachment to be secured, preferably, to the presser-foot post or stem, with which the rib of the holder co-acts, and by which said holder and its contained blank are guided. The invention is illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view showing the presser-foot and needle-bar or carrier of a sewing machine, the blank holder, and the clip or guide attached to the presser foot stem or post;

Figure 2 is a transverse sectional view of the same parts on a somewhat larger scale;

Figure 3 is a perspective view of the holder with the upper leaf or member slightly lifted better to show the relation of the two leaves of which it is composed;

Figure 4 is a perspective view of the presser-foot, clip, and fastening therefor; and

Figure 5 is a perspective view of a mitten blank showing its form, the folding line, and the line of stitching.

In the manufacture of mittens and the commoner classes of gloves, blanks of standard sizes and proportions are cut from the leather, cloth, or fabric of which they are to be made, and these are stitched along the boundaries of the mitten body or of a glove body and fingers, thereby producing simply and expeditiously, gloves suited to the use of farmers, mechanics, and workmen desiring a proper protection for their hands, yet not requiring particularly well or accurately shapen goods. The present invention is designed for this class of work, and is found admirably adapted to its purposes, whether for general factory use, or as an attachment to sewing machines for domestic use where

spare hours are devoted to the manufacture of such articles.

Referring again to the drawings, A indicates a mitten blank comprising two parts of like contour superimposed one upon the other by folding along a medial line 1. One end of each part or section of the blank is rounded to conform generally or approximately to a curved line touching the finger tips, and an opening 2 is cut in one of the layers or sections for the thumb, the thumb covering being made separately and stitched to the blank A about said opening. The thumb blank may be stitched in a form of suitable shape and dimensions of the same general character as that used for the body of the mitten.

B indicates the holder or clamp, comprising an upper leaf 3 having around its curved end and along one side a raised rib or flange 4 of the same form as blank A but of slightly smaller dimensions, and a second leaf 5 of the same contour and dimensions as leaf 3 but without the rib 4. The two leaves 3 and 5 are connected at the edge parallel with but remote from that bearing the rib or flange 4. This connection may conveniently be made by means of hinges 6, or where the clamp is of somewhat resilient metal, as it conveniently may be, the connection may be made by a fold or bend of the metal sufficient to allow ready springing thereof to permit insertion and removal of the blank. In other words, any common form of connection which will maintain the two leaves in proper relation to each other, and permit them to be separated to receive and to be closed upon the blank to hold it securely in place with the free edges protruding beyond the flange 4, will serve the purpose.

C indicates the sewing machine head, D the presser-foot post, E the presser-foot, F the needle-bar or carrier, G the needle, and H the clip or guide which overhangs and co-acts with the guide rib or flange 4. The clip H may conveniently be made of a piece of sheet metal bent to produce a vertical guiding arm or member 7, which will advisably be more or less curved in cross section to give a narrow bearing line or point for the rib or flange 4, and with a second or shorter arm or lug 8 substantially parallel with the guiding arm 7, and connected therewith by an

intervening portion 9. The overhanging arm or lug 8 is provided with a hole or perforation 10 to receive a fastening screw or bolt 11, which passes through a slot or opening 12 in the presser-foot stem or post D. By slotting said post D provision is made for vertical adjustment of the clip or guide H. In practice I prefer to provide the screw 11 with a nut 13, or in other words to employ a small bolt for attaching the clip H to the presser-foot post, for the reason that the clip will preferably be made of thin sheet metal, the hole in which cannot well be tapped, or will not give sufficient hold for the screw. This, however, is a detail variable at will, any suitable fastening device being within contemplation of this invention.

As shown in Figs. 1 and 2, the blank is clamped between the leaves 3 and 5, and the flange or rib 4 is passed between the guiding arm or member 7 of the clip H and the presser-foot E, and caused to bear against said guiding arm 7. With the clamp or holder here shown and with a machine in which the feed of the goods is from the attendant or user, the rib is started in at the point *a*, and said rib being held in contact with the arm 7 the holder is readily guided past the needle, and the protruding edges of the blank A are maintained at uniform distance from the needle, so that the stitching is performed along a line parallel to and at uniform distance from the rib 4.

By this simple means inexperienced persons may readily and accurately stitch up mittens, gloves, and various other articles, where without it they would be incapable of performing the work. The simplicity of the device, its small expense, and the ease with which it may be applied to and used with any sewing machine, make it a peculiarly useful article, enabling housewives and children to supplement factories in the filling of large orders such as are given in busy seasons in agricultural communities, and in times of war.

I am of course aware that guides of one sort and another have heretofore been proposed for use in connection with sewing machines, but so far as I am advised no one has before provided a simple attachment which will properly guide holders of varying configuration and dimensions. The very simple form or pattern here shown is illus-

trative merely, and may be varied or modified to any desired extent where only an outer boundary is to be stitched or followed.

While it is convenient and generally preferable to attach the clip H directly to the presser-foot post or standard, it may obviously be attached to the plate or table of the sewing machine in proximity to said presser-foot post and the needle-bar and needle, and the invention is to be understood as comprehending such arrangement or attachment of the device.

Having thus described my invention what I claim is:

1. The herein described means for facilitating the stitching of articles along prescribed lines, comprising a clamp or holder having an upstanding marginal flange or guiding rib of the contour of the line to be stitched; and a clip or guide wholly separate from but capable of application to and removal from the presser-foot post or standard of a sewing machine, and provided with means for effecting such attachment and removal; whereby such application and removal may be effected without in any manner disturbing any usual or permanent part of the sewing machine.

2. In combination with a sewing machine and with a holder B having a guiding rib or flange 4 conforming to the outline of a blank to be stitched, a clip H wholly separate and distinct from the sewing machine but provided with means whereby it may readily be attached to and detached from a part of the sewing machine in proximity to the presser-foot and needle, and in position to overhang and form a guide for the rib of the holder.

3. A guiding attachment for use in connection with sewing machines and with a work-holding clamp having an upstanding pattern rib, said attachment comprising a clip H having guiding arm 7, lug 8 and connecting portion 9, and a screw or fastening 11 adapted to pass through a hole in the lug 8 and enter a threaded nut, and thereby to clamp the guiding attachment to the presser-foot standard or other part of the sewing machine in proximity to the presser-foot and in position to co-operate with the work-holding clamp.

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

RAY ANGUS MURCHISON.