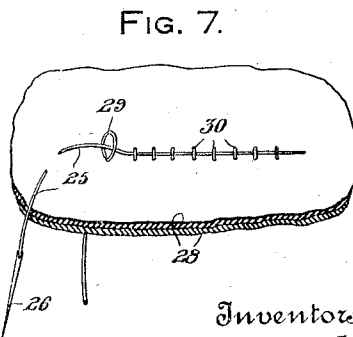
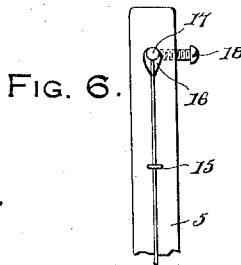
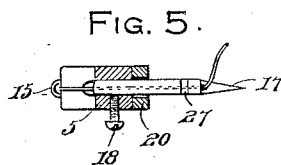
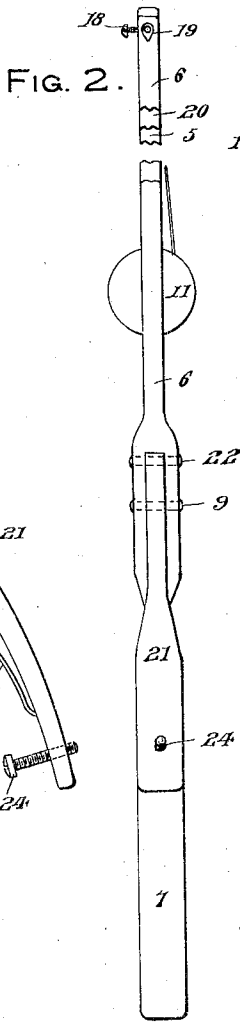
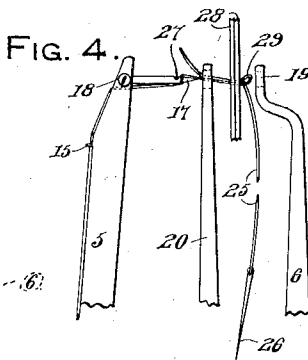
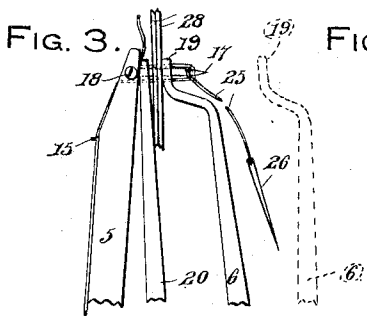
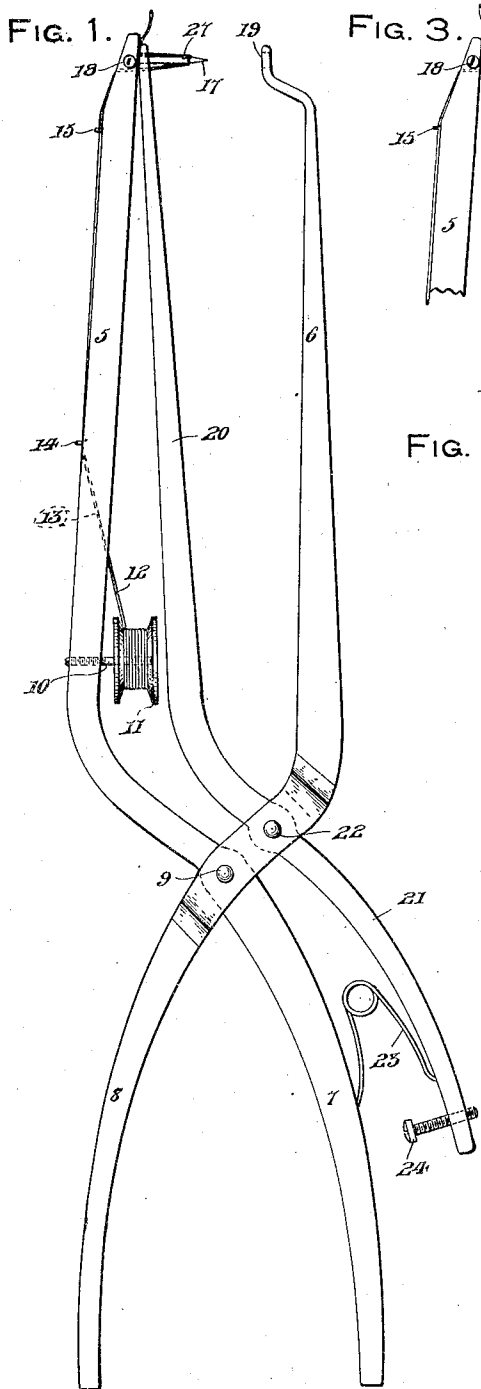


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1,352,508.

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UNITED STATES PATENT OFFICE.

JOSEPH FTACEK AND STEVE FTACEK, OF STREATOR, ILLINOIS.

SEWING-PLIERS.

1,352,508.

Specification of Letters Patent. Patented Sept. 14, 1920.

Application filed May 12, 1919. Serial No. 296,447.

To all whom it may concern:

Be it known that we, JOSEPH FTACEK and STEVE FTACEK, citizens of the United States of America, residing at Streator, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Sewing-Pliers, of which the following is a specification.

This invention relates to certain new and useful improvements in sewing pliers and is particularly adapted to enable a person of limited means to repair his shoes or the like at a nominal cost.

The primary object of the present invention is to simplify the construction and operation of devices of this kind and to enable the same to be manufactured cheaply and easily.

With the above general objects in view and others that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawing and claimed.

In the drawing forming a part of this application and in which like reference characters designate corresponding parts throughout the several views,

Figure 1 is a side elevational view of a pair of sewing pliers constructed in accordance with the present invention.

Fig. 2 is an edge elevational view thereof partly broken away,

Fig. 3 is a side elevational view of the outer end of the pliers and illustrating certain steps in the use of the same,

Fig. 4 is a similar view illustrating a further step in the use thereof,

Fig. 5 is a transverse sectional view, slightly enlarged, and illustrating a detail of the invention,

Fig. 6 is a fragmentary detail view of the needle carrying jaw of the pliers, and

Fig. 7 is a fragmentary perspective view illustrating the stitches formed by the present invention.

Referring more in detail to the several views, the present device includes a pair of jaws 5 and 6 having crossed handles 7 and 8 respectively which are pivoted together as at 9, the jaw 5 being provided with a detachable inwardly projecting pin 10 upon

which the spool 11 is journaled. The spool 11 is adapted to carry a suitable length of thread 12 which is extended therefrom through the jaw 5 as at 13 forwardly through the guides 14 and 15 and then through the aperture 16 provided in the free end of the jaw 5. A suitable sewing needle 17 is retained in the free end of the jaw 5 by means of a screw 18 or the like and said needle projects toward the jaw 6 in alignment with the aperture 19 provided in the free end of the latter.

A third jaw 20 is positioned between the jaws 5 and 6 and is provided with a handle 21 which crosses the handle 8 of the jaw 6 and is pivoted to the latter as at 22, a suitable spring 23 being positioned between the handles 7 and 21 to normally retain the latter separated with the jaw 20 adjacent the jaw 5 as shown in Fig. 1 wherein the needle 17 is projected through the aperture provided in the free end of said jaw 20. Movement of the handle 21 toward the handle 7 is limited by the adjustable stop pin 24 as it is desirable that the jaw 20 be allowed to only move such distance away from the jaw 5 as to enable the needle 17 being withdrawn slightly out of the aperture in the free end of the jaw 20.

The thread 12 is led from the aperture 16 through the aperture of the jaw 20 and then through the eye of the needle 17 back through said aperture of the jaw 20.

In using the present device, it is necessary that a second thread 25 be utilized in order to form a lock stitch as will be hereinafter made apparent and in order to allow ready insertion of the needle 26 attached to the thread 25 between the thread 12 and the needle 17, said needle is notched at one side as at 27.

In operation, the pliers are normally positioned as shown in Fig. 1 and the two pieces of leather 28 are disposed between the free end of the jaw 6 and the needle 17. The handles 7 and 8 are then grasped and moved toward each other so as to actuate the jaw 6 and thereby cause the needle 17 to be projected through said pieces of leather as shown in Fig. 3. The needle 26 is then positioned in the notch 27 and drawn through so that the thread 25 lies in said notch between the needle 17 and the adjacent por-

tion of the thread 12. The handles 7 and 8 are then separated so that the jaw 6 moves to its dotted line position in Fig. 3, whereupon the handles 7 and 21 are pressed together so as to cause the jaw 20 to move away from the jaw 5 and thereby strip the pieces of leather 28 off of the needle 17 when the loop 29 is formed in the thread 12 and extended through said pieces of leather, it being noted that the thread 12 is prevented from being pulled out of the pieces of leather toward the jaw 5 by reason of the thread 25. It will thus be seen that the jaw 20 functions as a presser foot and acts to strip the work from the needle, while the jaw 6 functions as a work support and its free end acts as a throat plate. After the step of the operation illustrated in Fig. 4, the free end of the thread 12 may be pulled so as to tighten the stitch as shown in Fig. 7 at 30, whereupon the handles 7 and 21 are released and the pieces of leather are moved a short distance to perform again the same operation above described and thereby stitch the pieces of leather together as desired.

It is believed that the construction and operation as well as the advantages of the present invention will be readily understood by those skilled in the art from the foregoing description.

While the form of the invention herein shown and described, is what is believed to be the preferable embodiment of the same, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What we claim as new is:—

1. Sewing pliers comprising outer needle carrying and work supporting jaws and an intermediate presser foot jaw, yieldable means to normally move the needle carrying and presser foot jaws toward each other, manually operable means to separate the needle carrying and presser foot jaws, and manually operable means to move the needle carrying and work supporting jaws toward and away from each other.

2. Sewing pliers comprising outer needle carrying and work supporting jaws and an intermediate presser foot jaw, yieldable means to normally move the needle carrying and presser foot jaws toward each other, manually operable means to separate the needle carrying and presser foot jaws, and manually operable means to move the needle carrying and work supporting jaws toward and away from each other, said needle carrying jaw having a thread spool receiving pin attached thereto and provided with thread guides.

3. Sewing pliers comprising needle carrying and work supporting outer jaws provided with crossed handles pivotally connected, an intermediate presser foot jaw

having a handle crossing the work supporting jaw handle and pivoted thereto, and resilient means interposed between the handles of the needle carrying and intermediate presser foot jaw to normally move said jaws toward each other.

4. Sewing pliers comprising needle carrying and work supporting outer jaws provided with crossed handles pivotally connected, an intermediate presser foot jaw having a handle crossing the work supporting jaw handle and pivoted thereto, resilient means interposed between the handles of the needle carrying and intermediate presser foot jaw to normally move said jaws toward each other, and means to limit the movement of the intermediate presser foot jaw away from the needle carrying jaw.

5. Sewing pliers comprising needle carrying and work supporting outer jaws provided with crossed handles pivotally connected, an intermediate presser foot jaw having a handle crossing the work supporting jaw handle and pivoted thereto, resilient means interposed between the handles of the needle carrying and intermediate presser foot jaw to normally move said jaws toward each other, and means to limit the movement of the intermediate presser foot jaw away from the needle carrying jaw, said means comprising an adjustable stop carried by the handle of the intermediate presser foot jaw and movable into contact with the handle of the needle carrying jaw.

6. Sewing pliers comprising needle carrying and work supporting outer jaws provided with crossed handles pivotally connected, an intermediate presser foot jaw having a handle crossing the work supporting jaw handle and pivoted thereto, resilient means interposed between the handles of the needle carrying and intermediate presser foot jaw to normally move said jaws toward each other, means to limit the movement of the intermediate presser foot jaw away from the needle carrying jaw, a thread spool carrying pin detachably secured to the needle carrying jaw and projecting inwardly toward the presser foot jaw whereby accidental displacement of the spool is prevented, and thread guides carried by said needle carrying jaw.

7. Sewing pliers comprising an outer needle carrying jaw, an outer work supporting jaw, a stiff intermediate presser foot jaw apertured for reception of the needle of the needle carrying jaw, means to move the needle carrying and work supporting jaws toward each other with the presser foot jaw on the needle and to move said needle carrying and work supporting jaws away from each other without removing the presser foot jaw from the needle, and positive means to move the presser foot jaw away from the needle carrying jaw for removing

the presser foot jaw from the needle at will after the needle carrying and work supporting jaws have been separated.

5 8. Sewing pliers comprising needle carrying and work supporting outer jaws provided with crossed handles pivotally connected, an intermediate presser foot jaw having a handle crossing one of the first named

handles and pivoted thereto, and yieldable means to normally move the needle carrying 10 and presser foot jaws toward each other.

In testimony whereof we affix our signatures.

JOSEPH FTACEK.
STEVE FTACEK.