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2,069,636

STITCH SCISSORS

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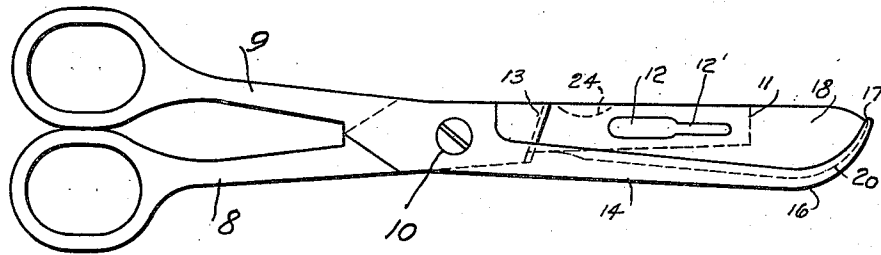


Fig. 1.

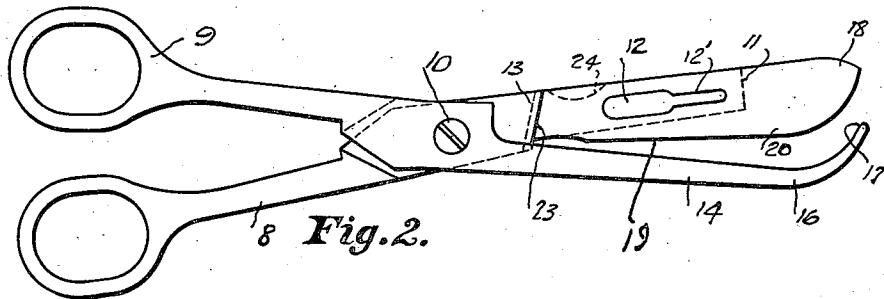


Fig. 2.

Fig. 3.

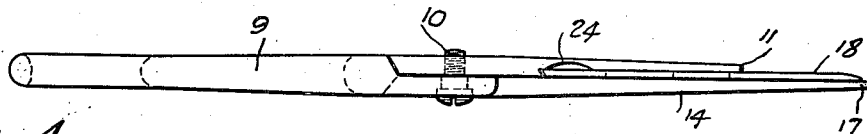


Fig. 4.

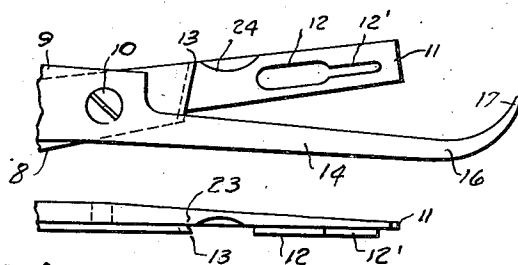


Fig. 5.

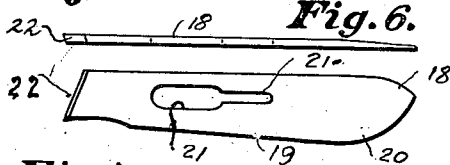


Fig. 6.

Fig. 7.

Fig. 8.

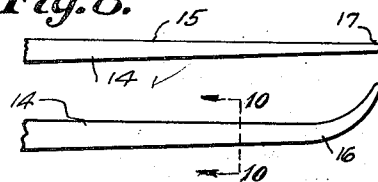


Fig. 9.

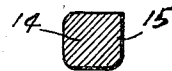


Fig. 10.

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STITCH SCISSORS

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5 Claims. (Cl. 128—318)

This invention relates to a surgeon's improved stitch scissors, and has for its object, broadly, to provide detachable blades for one of the lever-arms. The invention also includes a change in the cutting edge and form of the "pick-up" lever-arm of the scissors.

Since the material used in the manufacture of stitch scissors must consist of high grade, expensive steel, and since these scissors are useless as soon as the cutting edges lose their sharpness, it is considered that the present invention will prove to be of advantage on account of economy in production and greater utility.

The invention consists of the new and useful construction, combination and arrangement of parts as described herein and claimed, and as illustrated in the accompanying drawing, it being understood that I may make changes in form, size, proportions of parts and minor details of construction as found to be of advantage, said changes being within the scope of the invention as claimed.

In the drawing, Fig. 1 is a side view of the device, the blades being in closed position, and Fig. 2 is a similar view, the blades of the scissors being separated.

Fig. 3 is a top plan view of parts shown in Figs. 1 and 2.

Figs. 4-10 illustrate details of construction. Fig. 4 is a side view showing the end-portions of the pair of lever-arms of the stitch scissors, and Fig. 5 is a plan view of one of the arms of said pair.

Fig. 6 is a plan view of the detachable blade, and Fig. 7 is a side view of the same.

Fig. 8 is a plan view showing an end-portion of the stitch-lifter, and Fig. 9 is a side view of the same.

Fig. 10 is a sectional view on line 10—10 of Fig. 9.

Referring now to the drawing for a more particular description, the two lever-arms of the scissors are respectively indicated at 8 and 9, the pivotal connection of said arms being indicated at 10.

Numeral 11 indicates a distal end-portion of the lever-arm 8, operating as a supporting element and provided on its inner side with an anchor-lug, consisting of an approximately rectangular body 12, provided with a comparatively narrow guide-strip 12' disposed in line with the longitudinal axis of the part 12. Said end-portion 11 is provided, transversely, with a ledge 13.

The lever-arm 9 is provided with an end-portion 14 preferably rectangular in cross-section to

provide, longitudinally, a rectilinear sharp edge 15 (Fig. 7), said end-portion being of tapered and curved form as indicated at 16, the terminal of said curved part 16 being of tapered and cylindrical form as indicated at 17.

This cylindrical part 17 has a very limited length and is of such proportions that it will readily enter beneath the thread or strand of the stitch without disturbing the skin or wound.

Numeral 18 indicates a demountable attenuated blade having a sharp rectilinear edge 19 and a longitudinally curved sharp edge 20, best shown in Fig. 5 of the drawing, said blade being provided with an aperture of rectangular form and a narrow aperture opening thereon indicated, respectively, at 21 and 21', the rear end of said blade having a straight edge 22.

As thus described it will be seen that blades 18 of high grade material may be manufactured at a limited cost as compared to the product heretofore produced. The apertures 21 and 21' correspond to the outline and are adapted to receive the anchor-lug 12 and guide-lug-strip 12'.

If desired, a notch or slot 23 may be used and disposed beneath the ledge 13 for receiving the end 22 of the attenuated blade.

In operation, to mount the blade 18 in operative position, it may have a sliding movement on the inner side of the end-portion 11 of the lever-arm 8, and its larger opening 21 will readily receive the guide-strip or lesser lug 12', and a further sliding movement of the blade will permit the larger opening 21 to receive the larger part 12 of the anchor-lug to enter the larger opening 21 of said blade, the end 22 of the blade entering the slot or groove 23, and thereafter this blade will be firmly held in operative position.

Since the anchor-lug has a projection corresponding to the thickness of the blade 18 its surface will be disposed flush with the exposed surface of said blade 18 to permit said blade to cooperate with the parts 14 and 16 of the lever-arm 9 during operation.

Numeral 24 indicates a small recess which is provided for the end-portion 11 of lever-arm 8 for convenient use when detaching the blade.

I claim as my invention:—

1. A stitch scissors comprising a lever-arm having an end-portion provided with a ledge, a groove in the ledge and an anchor-lug, a second lever-arm pivotally attached to the first named arm and having a sharp edge with a longitudinally curved end-portion with a cylindrical tapered terminal, and an attenuated blade having

a sharp edge with a longitudinally curved end-portion conforming to the curvature of the end-portion of said second lever-arm and having an aperture conforming to the contour and adapted to receive the anchor-lug of the first named lever-arm, said groove receiving that end of the blade opposite its curved end-portion.

2. A stitch scissors including a lever-arm having an end-portion provided on its inner side with a ledge, a groove in the ledge, an approximately rectangular anchor-lug and a guide-strip extending therefrom in line with the longitudinal axis thereof, a second lever-arm pivotally attached to the first named lever-arm and having a sharp edge with a longitudinally curved end-portion with a cylindrical, tapered terminal, and an attenuated blade having a sharp-edge with a longitudinally curved end-portion conforming to the curvature of the end-portion of said second lever-arm and having an aperture conforming to the shape and adapted to receive the anchor-lug and guide-strip of the first named lever-arm, said groove receiving that end of the blade opposite its curved end-portion.

3. A stitch scissors including a lever-arm having an end-portion provided with a ledge, a groove in the ledge and an anchor-lug, a second lever-arm pivotally mounted on the first named lever-arm and having a rectilinear sharp-edge and a curved end-portion of tapered form provided with a sharp-edge with a terminal of cylindrical form, and an attenuated blade having a rectilinear sharp-edge and a curved end-portion having a sharp-edge conforming to the curvature of the end-portion of the second lever-arm, and

having an aperture conforming to the shape and adapted to receive the anchor-lug of said first named lever-arm, said groove receiving an end of said blade.

4. A stitch scissors including a lever-arm having an end-portion provided on its side with a ledge, a groove in the ledge, and an anchor-lug adjacent to said ledge, a second lever-arm pivotally mounted on the first named lever-arm and having a rectilinear part and a curved end-portion each provided with a sharp-edge, and an attenuated blade having a rectilinear sharp-edge and an end-portion having a longitudinally curved sharp-edge corresponding to the curvature of the end-portion of the second lever-arm, said blade being provided with an aperture conforming to the shape of said anchor-lug and adapted to be disposed with its end engaging in said groove, its aperture receiving said anchor-lug.

5. A stitch scissors including a lever-arm having an end-portion provided with a ledge, a groove in the ledge, an anchor-lug and a guide-strip extending therefrom, a second lever-arm pivotally mounted on the first named arm and having a rectilinear part and a curved terminal part each part being of rectangular form in cross-section to provide a sharp-edge, and an attenuated blade having a rectilinear sharp-edge and an end-portion having a longitudinally curved sharp-edge corresponding to the curvature of the terminal of the second lever-arm, and having an aperture corresponding and adapted to receive said anchor-lug and guide-strip, said groove receiving an end of said blade.

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