

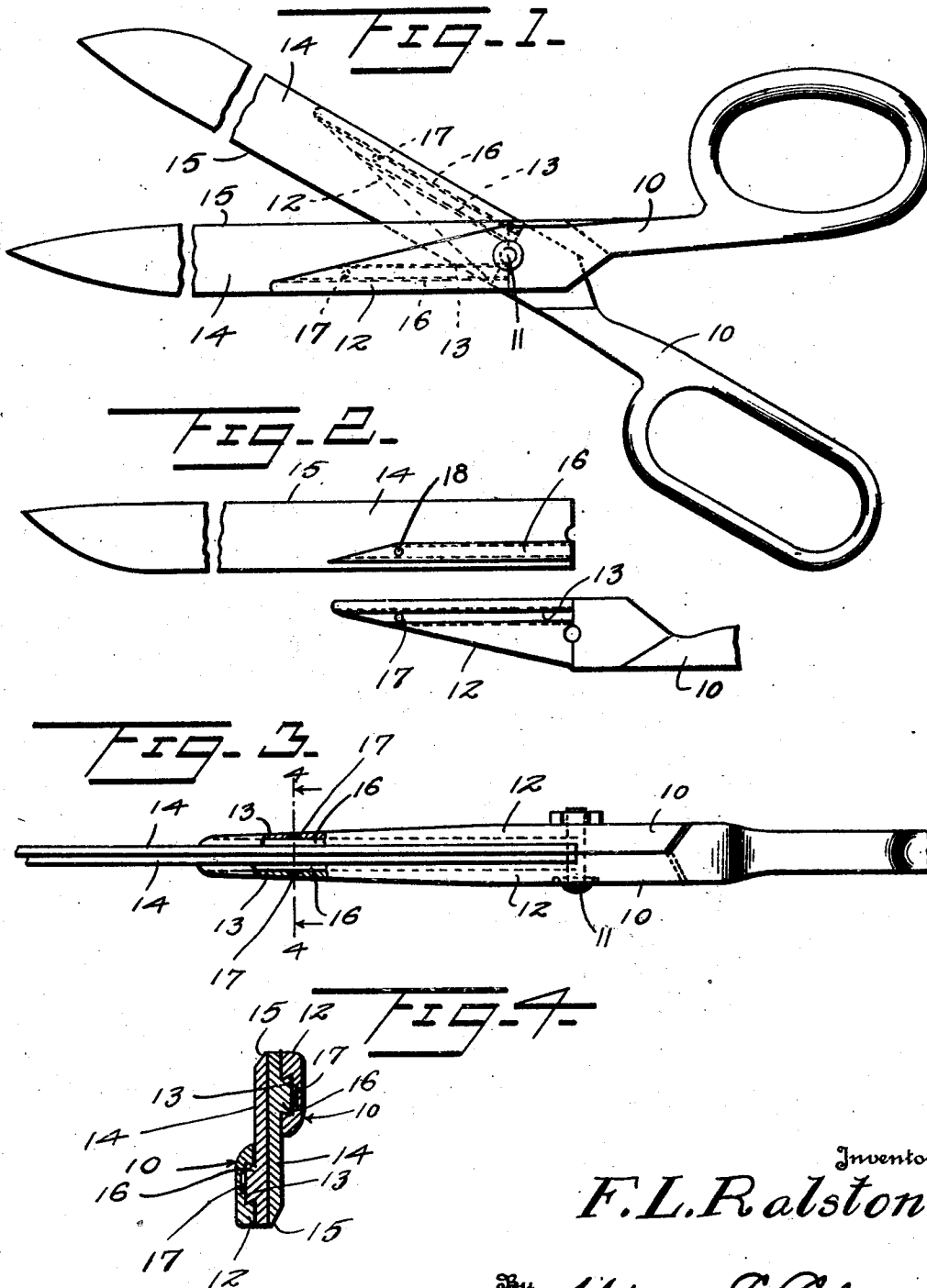
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DETACHABLE BLADED SCISSORS

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DETACHABLE BLADED SCISSORS

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This invention relates to detachable bladed scissors.

An important object of the invention is the provision in a device of this character of a construction such that the blades may be securely fastened in position without the use of screws or other securing means, necessitating the use of tools in changing a blade.

A further object of the invention is to provide a device of this character which will enable the blade to be constructed from very thin steel and will, at the same time, provide a blade which is sufficiently rigid to insure proper operation thereof.

These and other objects I attain by the construction shown in the accompanying drawing, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a view in side elevation of a scissors constructed in accordance with my invention.

Figure 2 is a view in side elevation of one of the handle portions and one of the blades of the scissors, such parts being shown in detached relation.

Figure 3 is an edge view of the scissors with a portion thereof in section, and

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Referring now more particularly to the drawing, the numeral 10 generally designates handle portions for the scissors which are pivoted together, as at 11. These handle portions at one side of the pivot are formed in the usual or preferred manner for engagement with the fingers. At the opposite side of the pivot points thereof, the handle portions form blade supports 12, adjacent faces of which are slightly spaced from one another and formed with longitudinally extending dove-tail grooves 13. The blades each comprise a relatively thin steel strip 14 having one edge thereof formed as a cutting edge 15 and provided upon one face thereof with

a dove-tail rib 16 to fit the groove 13 of the associated blade holder 12.

The forward ends of the blade supports are formed with depressions 17 and each blade has upon the forward end of the rib thereof a tit 18 adapted to engage in said depression when the blade is in proper position upon the holder. Engagement with or disengagement of this tit from the depression necessitates a slight springing outwardly of the outer wall of the blade support, so that accidental disengagement is prevented. The blade supports 12 decrease in width in the direction of their front ends, and each blade support has one longitudinal edge thereof extended diagonally across the front end of its groove 13, in order to permit the outer walls of the supports to be sprung outwardly when it is desired to engage the tits 18 with or disengage them from the depression 17. It will thus be obvious that the blade may be very readily removed and substituted at any time. By eliminating the use of securing elements, difficulties in the exchange of blades are avoided. The handle portions 10 contact with each other adjacent the pivot 11, and the distance between the adjacent faces of the blade supports 12 is equal to the combined thickness of the blades 14.

Since the construction hereinbefore set forth is capable of a certain range of change and modification without materially departing from the spirit of the invention I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

Scissors or shears comprising handle portions having their inner faces arranged in contact, a pivot extending through the forward ends of the handle portions, blade supports extending forwardly from the handle portions and having their entire inner faces relatively spaced and provided in said faces thereof with longitudinally extending dove-tail grooves, the blade supports decreasing in

width in the direction of their front ends and
having inclined edges extending diagonally
across the front ends of said grooves to per-
mit the outer walls thereof to be sprung out-
wardly, the forward ends of said outer walls
being provided with depressions, blades pro-
vided on their outer faces with longitudinally
extending dovetail ribs fitting in said grooves,
and tits formed on the outer faces of said
ribs near the front ends thereof and fitting
in said depressions, the distance between the
inner faces of the blade supports being equal
to the combined thickness of the blades.

In testimony whereof I hereunto affix my
signature.

FRANK L. RALSTON.