Jan. 2, 1962 J. E. FOGLE 3,015,160

SCISSORS

Filed June 3, 1960

FIG. 1.

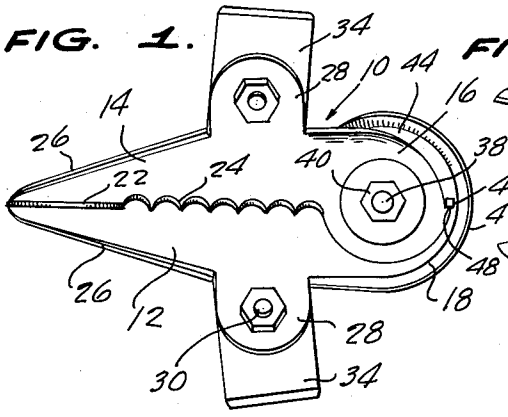


FIG. 5.

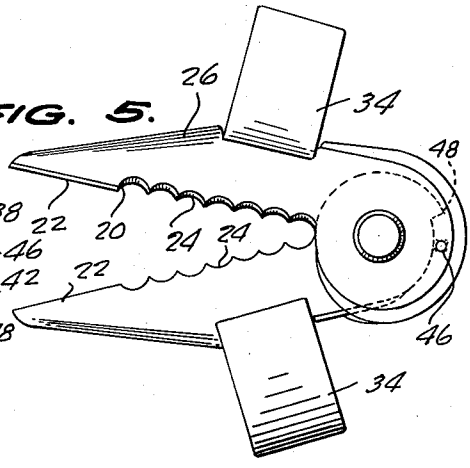
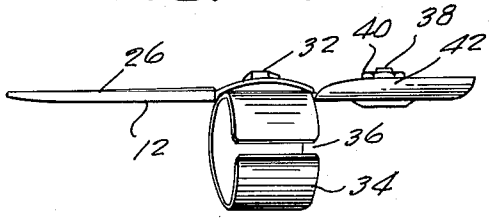


FIG. 2.



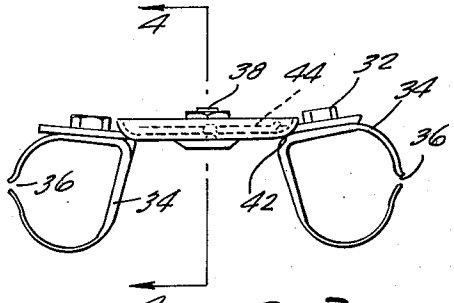


FIG. 3.

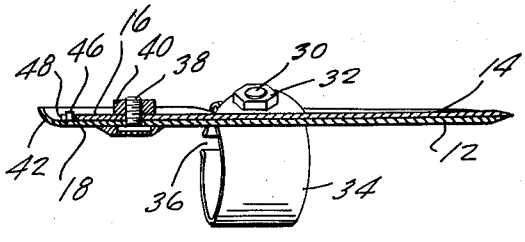


FIG. 4.

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3,015,160 SCISSORS

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This invention relates to improvements in shears and is particularly directed to a novel and improved pair of scissors, which are designed to be operated by the thumb and index finger of a user.

A primary object of the present invention is to provide a small pair of sturdy and easily operated scissors, which can be effectively and easily used for many cutting tasks that require fine and quick cutting, as for example, clipping the bills of birds, severing the stems of fruit or flowers.

Another important object of the present invention is to provide a pair of small and sturdy blades, which are pivotally connected together and which are provided with outer, reinforced edges from which wings laterally extend to support a pair of finger-engaging loops or bands, the bands being attached to the wings for simple adjustment about an axis that is parallel to the pivotal axis of the blades and being constructed in such a manner and formed from a flexible material, so as to be adjustable to fit various sizes of thumbs and index fingers.

A further important object of the present invention is to provide cutting blades, which are formed on their outer edges with reinforcing flanges that strengthen the blades and prevent them from springing.

A further important object of the present invention is to provide inner cutting edges on the blades, such cutting edges having outer cutting portions and having inner scalloped portions, which insure a more effective grip on the material to be cut.

Another important object of the present invention is to provide overlapping rearward ends on the blades, which ends receive a pivot means and which are formed, rearwardly of the pivot means and on their outer edge portions in a cupped fashion, for strengthening purposes and for more comfort in use.

The foregoing and ancillary objects are attained by this invention, the preferred embodiment of which is set forth in the following description and illustrated in the accompanying drawing, wherein:

FIGURE 1 is a top plan view of the improved scissors of this invention;

FIGURE 2 is a side elevational view thereof:

FIGURE 3 is a rear elevational view thereof;

FIGURE 4 is a longitudinal vertical sectional view taken on line 4—4 of FIGURE 3; and

FIGURE 5 is a bottom plan view thereof.

Referring now more particularly to the accompanying drawing, the scissors 10 includes a pair of complementary blades 12 and 14. The blades 12 and 14 are of generally triangular shape and include overlapping, rearward end portions 16 and 18. The overlapping rearward end portions are substantially circular in plan, with the blade 12 having its end portion 18 lying under the portion 16 of the blade 14, as shown in FIGURE 1, so that the rearward end portion 18 is of larger diameter. Apart from the difference in the size of the end portions 16 and 18, which difference is provided for reasons to be apparent, the blades 12 and 14 are similar in shape and construction.

In the latter respect, each of the blades includes an inner cutting portion 20, which is formed at its outer end portion with a sharpened cutting edge 22 and is formed at its inner end portion with a scalloped portion 24. The

outer edges 26 of each of the blades are curved upwardly out of the plane of the blades for strengthening purposes.

Each of the blades is provided with a laterally outstanding and integral wing 28, which is disposed intermediate the forward and rearward ends of the blades. Each of the wings is extended slightly upwardly from the plane of the blades and is formed with an opening to receive a bolt 30 or similar fastening element. The bolt 30, which is secured by a nut 32, provides the mounting means for a finger encircling or engaging band 34.

The bands 34, formed from suitable flexible material, are attached by the bolts 30 to the wings so as to be adjustable about an axis that is substantially parallel to the pivotal axis of the blades, as will be described. Each of the bands is in the form of a ring, which has a split 36, whereby the bands may be adjusted in order to conform to various index finger and thumb measurements.

The rearward end portions 16 and 18 of the blades overlap and are pivotally connected together by a pivot means, which is in the nature of a bolt 38, secured by a nut 40. It is to be particularly noted that the outer edge of the rearward end portion 18 is provided with an upwardly curved flange 42 and the edge of the end portion 16 is also provided with an upwardly curved flange 44, such flanges being concentrically disposed and being provided for strengthening purposes, as well as to add to the comfort of the user in employing the scissors.

A stop 46 upstands from the end portion 18 and is adapted to be engaged by an offset shoulder 48 that is formed on the edge of the end portion 16 of the blade 14.

In use, the rings 34 are adjusted as to diameter and bodily position, relative to the blades, by means of bending the rings upon themselves and by loosening the nuts 32 and turning the rings, so that the rings or bands can be positioned and formed for the comfort and ease of use of the user. The user's thumb and index finger are inserted in the bands to move the blades about the pivot axis, the closing movement of the blades being limited by abutting stop means, including the stop 46 and the shoulder 48. The complementary scalloped edges 24 provide a means for retaining the material, while the cutting edges 22 are cutting the material.

The scissors have been found to be effective in use for cutting of bills of birds and for cutting grapes, as well as for cutting other fruits and flowers.

While the preferred embodiment of this invention has been described and illustrated herein, other forms may be realized as come within the scope of the appended claims.

What is claimed is:

1. A scissors comprising a pair of coextensive flat blades having forward ends and rear ends, said blades being substantially similar in shape and consisting of a first blade and a second blade, said blades having circular rear end portions which are concentrically engaged with each other, a pivot securably traversing said rear end portions at their centers, said blades having longitudinal inner edges, and outer edges, said inner edges consisting of straight outer end portions and scalloped inner end portions, said straight end scalloped portions being of the same lengths, and finger loops secured to the blades and extending laterally outwardly from the outer edges of the blades, the circular rear end portion of said second blade being larger in diameter than the circular end portion of said first blade, a lateral stop fixed to the rear end portion of the second blade in line with its inner edge, the rear end portion of said first blade having a peripheral edge having an extension defining a stop shoulder on line with its inner edge for engagement by said stop only when the blades are in closed relation with their inner edges in shearing relationship.

2. A scissors comprising a pair of coextensive flat blades having forward ends and rear ends, said blades being sub-

stantially similar in shape and consisting of a first blade and a second blade, said blades having circular rear end portions which are concentrically engaged with each other, a pivot securably traversing said rear end portions at their centers, said blades having longitudinal inner edges, and outer edges, said inner edges consisting of straight outer end portions and scalloped inner end portions, said straight end scalloped portions being of the same lengths, and finger loops secured to the blades and extending laterally outwardly from the outer edges of the blades, the circular rear end portion of said second blade being larger in diameter than the circular end portion of said first blade, a lateral stop fixed to the rear end portion of the second blade in line with its inner edge, the rear end portion of said first blade, having a peripheral edge having an extension defining a stop shoulder on line with its inner edge for engagement by said stop only when the blades are in closed relation with their inner edges in shearing relationship, the circular rear end portion of the second blade having a peripheral edge portion concentrically spaced from the peripheral edge of the rear end portion of the first blade, said peripheral edge portion being transversely and laterally curved toward and around the peripheral edge of the rear end portion of the first blade.

3. A scissors comprising a pair of coextensive flat blades having forward ends and rear ends, said blades being substantially similar in shape and consisting of a first blade and a second blade, said blades having circular rear end portions which are concentrically engaged with each other, a pivot securably traversing said rear end portions at their centers, said blades having longitudinal inner edges, and outer edges, said inner edges consisting of straight outer

end portions and scalloped inner end portions, said straight end scalloped portions being of the same lengths, and finger loops secured to the blades and extending laterally outwardly from the outer edges of the blades, the circular rear end portion of said second blade being larger in diameter than the circular end portion of said first blade, a lateral stop fixed to the rear end portion of the second blade in line with its inner edge, the rear end portion of said first blade, having a peripheral edge having an extension defining a stop shoulder in line with its inner edge for engagement by said stop only when the blades are in closed relation with their inner edges in shearing relationship, the circular rear end portion of the second blade having a peripheral edge portion concentrically spaced from the peripheral edge of the rear end portion of the first blade, said peripheral edge portion being transversely and laterally curved toward and around the peripheral edge of the rear end portion of the first blade, said finger loops being located at the sides of the blades remote from said peripheral edge portion.

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