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SCISSORS MEASURING DEVICE

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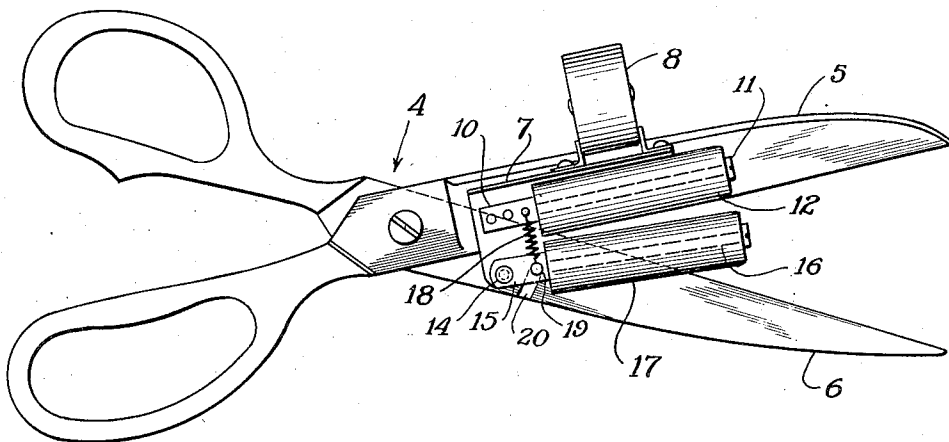


Fig. 1

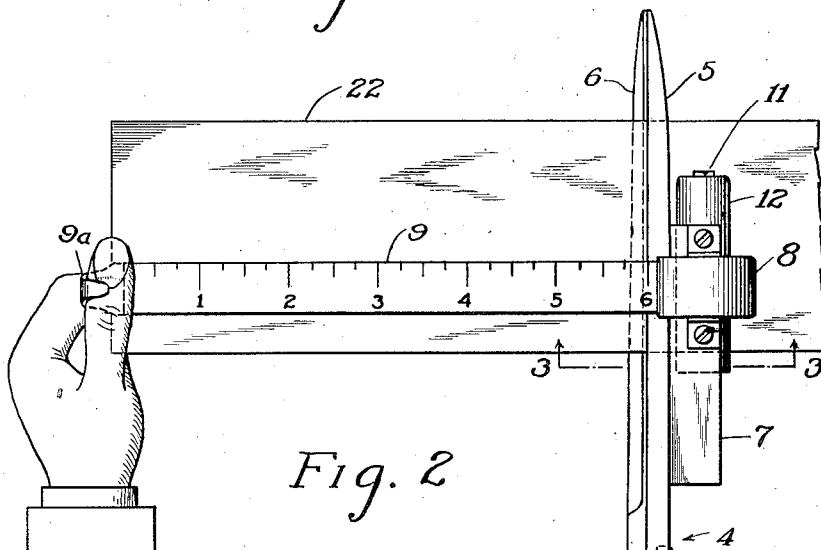


Fig. 2

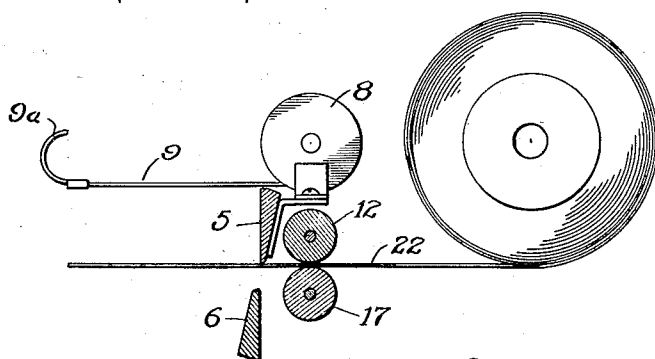


Fig. 3

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SCISSORS MEASURING DEVICE

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5 Claims. (Cl. 164—80)

This invention pertains to a combination cutting and measuring device and has for one of its objects to provide a simple attachment for the usual form of scissors which will greatly facilitate the measuring and cutting of ribbon materials.

Another object of this invention is to provide a means for retaining the end of the ribbon material at the scissors so that additional lengths may be cut with greater efficiency than is at present accomplished in such operations.

The invention will be fully and comprehensively understood from a consideration of the following detailed description when read in connection with the accompanying drawing which form part of the application, with the understanding, however, that the improvement is capable of extended application and is not confined to the exact showing of the drawing nor to the precise construction described and, therefore, such changes and modifications may be made therein as do not affect the spirit of the invention nor exceed the scope thereof as expressed in the appended claims.

In the drawing:

Fig. 1 is a side elevational view of the usual pair of scissors with the measuring device attached.

Fig. 2 is a plan view of the invention in the operation of cutting ribbon material; and

Fig. 3 is a sectional view on line 3—3 of Fig. 2.

Referring to the drawing for a more detailed description thereof, numeral 4 indicates a pair of scissors having upper blade 5 and lower blade 6. Attached to the upper blade 5 is the roller support 7, to which is affixed a measuring tape casing 8 of the usual type wherein the extended measuring tape 9 is returned to within the casing 8 by means of a spring. Rigidly attached to the roller support 7 is the upper roller bracket 10 to which is attached the upper roller shaft 11. The upper roller 12 is rotatably mounted on the upper roller shaft 11. Pivotaly mounted to the roller support 7 by means of stud 14 is the lower roller bracket 15. The lower roller shaft 16 is affixed to the lower roller bracket 15 and supports the lower roller 17. The tension spring 18 has its upper end affixed to the upper roller bracket 10 and its lower end attached to the pin 19 so that the tension of the spring 18 will normally hold the lower roller 17 in contact with the upper roller 12. The curved slot 20 is cut in the lower blade 6 of the scissors 4. The distal end of the pin 19 extends thru the lower roller bracket 15 and into the curved slot 20.

In the operation of the cutting and measuring device of my invention the scissors 4 are gripped as usual in the right hand of the operator and are opened to the extent shown in Fig. 1. The rollers 12 and 17, being normally held together by spring 18, are separated when the scissors are opened by the engagement of the upper end of the slot 20 against the distal end of the pin 19. It will be noted that this separation of the rollers occurs only in the full opening of the blades 5 and 6. In any lesser opening of the blades 5 and 6 the rollers are brought into contact with each other actuated by the spring 18. As the scissors 4 are held in this full open position by the right hand, the left hand of the operator inserts the ribbon material 22 between the upper roller 12 and the lower roller 17 so that the lengthwise edge of the ribbon material is at a right angle to the axis of the rollers. The scissors blades are now brought together only a sufficient amount to release the lower roller 17 into contact with the ribbon material 22. This stage of the operation is shown clearly in Fig. 3. At this time the thumb of the left hand is engaged with the hook end 9a of the tape 9 and the end of the ribbon material 22 is grasped between the thumb and forefinger of the left hand. The ribbon material 22 is now pulled to the left, as shown in Fig. 2, to the length at which it is to be cut, and the measuring tape 9 is extended from within its casing 8 at the same time. The length to which the material is to be cut is indicated by the calibration on the measuring tape 9 in line with the left side of the upper blade 5.

What is claimed is:

1. In combination with a pair of scissors including coating blades, cooperating means adjacent said blades adapted to hold material to be cut and movable towards and away from each other by the closing and opening respectively of the scissors, said means comprising a pair of rollers carried by one of the blades.

2. In a combination as described in claim 1, measuring tape positioned above said rollers and at right angles to the scissors and adapted to be drawn over the rollers and scissors with material passing therethrough.

3. In combination with a pair of scissors including coating blades, cooperating rollers adjacent said blades and substantially parallel to the cutting edge of one of the blades, adapted to hold material passing between the blades, said rollers carried by one of the blades and hingedly mounted in relation to each other, and resilient means urging the rollers together.

4. An attachment for shears comprising guide rollers carried by one of the blades of the shears and substantially parallel to the cutting edge thereof.
- 5 5. An attachment as described in claim 4 having a tape spool positioned above said guide rollers and at right angles to the shears, said tape adapted to be drawn outward with material drawn through the shears and rollers, and positioned to measure the amount of material drawn through the shears with indicia corresponding with the cutting edges of the shears. 5

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