(No Model.)

T. THORLAKSON.

SCISSORS WITH CLOTH CUTTING ATTACHMENT.

No. 580,995. Patented Apr. 20, 1897.

Fig. 1.

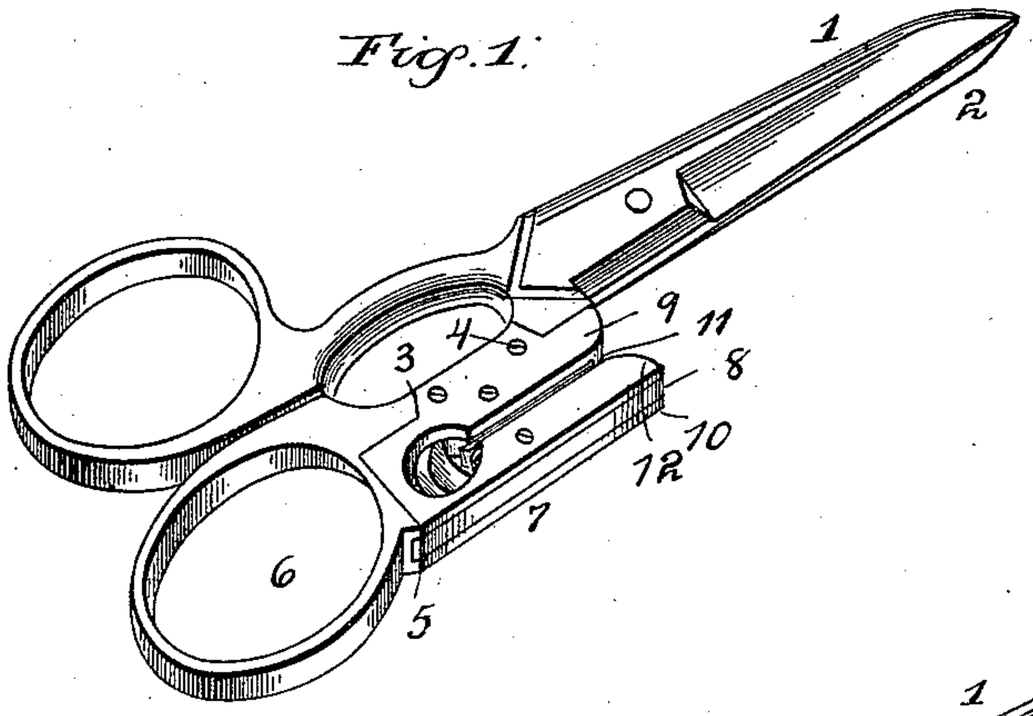


Fig. 2.

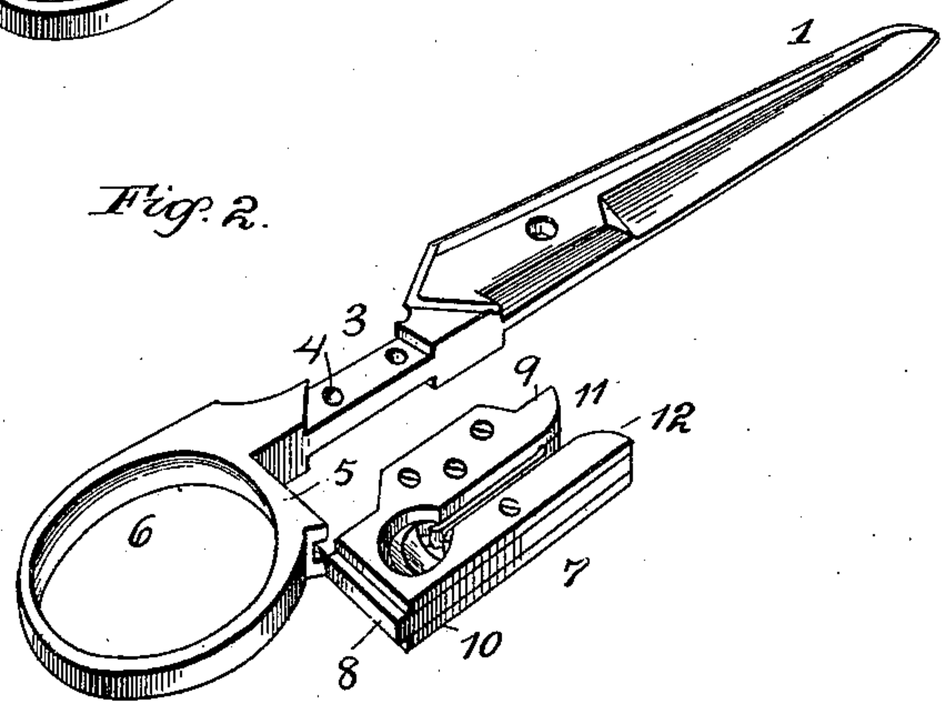
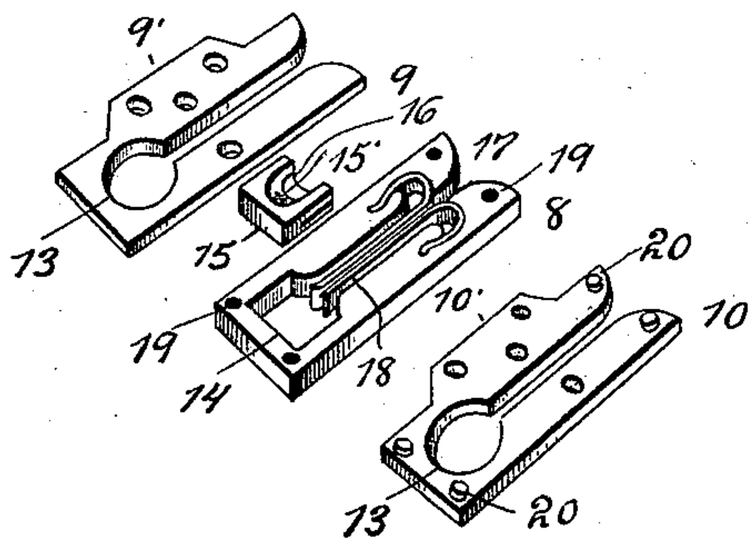


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SCISSORS WITH CLOTH-CUTTING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 580,995, dated April 20, 1897.

Application filed February 4, 1897. Serial No. 621,914. (No model.)

To all whom it may concern:

Be it known that I, THORSTEINN THORLAKSON, a citizen of the United States, residing at Milton, in the county of Cavalier and State of North Dakota, have invented certain new and useful Improvements in Scissors with Cloth-Cutting Attachment; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in scissors, and particularly to improvements in that class thereof which are provided with attachments for enabling cloth to be cut therewith without movement of the scissor-blades; and it consists in the improved scissors with a cloth-cutting attachment thereon, which will be hereinafter fully described, and particularly pointed out in the claims.

According to the present custom, when a long strip of cloth is to be cut, as, for instance, when one or more yards of a piece of cloth are to be severed from the main piece or bolt of cloth, the cutter cuts with his scissors a short distance into the cloth at the point where the goods is to be severed and then, holding the scissors in a peculiar position, finishes the cut across the piece of cloth without movement of the scissor-blades.

The object of my invention is to provide a cutting attachment to be securely fastened to the scissor-blade, so as to form to all practical purposes a part thereof, by the action of which a cut across a piece of goods, after it has been started in the ordinary manner, can be continued with much more rapidity and with greater certainty than is done according to the method now in vogue.

In accomplishing the object of my invention I secure to the shank of the "lower" scissor-blade (by which I mean the blade which is operated and controlled by the forefinger of the cutter) a case in which is secured a curved knife-blade, which is held in such a position that its edge is at right angles to the edge of the goods that is to be cut, and to which access is afforded through a guideway having curved lips and provided with springs to hold the portion of the cloth that is to come in contact with the curved knife-blade in proper relation thereto.

My invention is fully illustrated in the drawings which accompany and form a part of this specification, in which the same reference-numerals refer to the same or corresponding parts, and in which—

Figure 1 is a perspective view of a pair of scissors provided with my improved cutting attachment. Fig. 2 is an enlarged detail view of that portion of the lower scissor-blade to which my cutting device is attached, showing also the cutting attachment itself detached therefrom. Fig. 3 is a detailed view of my cutting attachment, showing the parts thereof separated, but in the general relation they hold to each other.

Referring to the drawings, 1 and 2 represent the scissor-blades. The scissor-blade 1 is that blade whose shank is below the shank of blade 2, and is controlled and operated by the forefinger of the cutter. Portions of this shank are cut away so as to form side recesses 3, and the shank is drilled so as to be provided with screw-holes 4. The inner surface 5 of the finger-guard 6 of the scissor-blade is also grooved, so as to form a recess with guiding sides. The purpose in thus cutting the shank and finger-guard of the scissor-blade is to provide for the reception of the knife-case 7, in which is secured the stationary cutting-knife, which is designed to effect the cutting across the piece of goods. The width of the knife-case 7 is such that it will fit within the grooved portion 5 of the finger-guard 6 and be held in position thereby. The knife-case is formed of a body portion 8 and side plates 9 and 10. The side plates are formed with upwardly-extending flanges 9′ and 10′, which are adapted to fit snugly within the recessed portions of the scissor-blade 1. The flanges 9′ and 10′ are also pierced with screw-holes which register or correspond with the screw-holes formed in the scissor-blade 1, so that provision is hereby made for securely fastening the knife-case to the scissor-blade. The width of the side plates 9 and 10 corresponds to the depth of the recesses cut in the scissor-blade shank, so that the knife-case is flush with the scissor-blade and a neat and substantial construction provided.

Both the sides and body portion of the knife-case 7 are provided with longitudinal slots 11, the entrance to which is inclined by virtue of

the curve of the lips 12. The inner ends of the slots 11 are enlarged in the case of the side plates into rounded openings 13, and in the case of the body portion 8 into a squared recess 14. Within the squared recess 14 fits snugly the knife-holder 15, the sides of which are cut away, as shown in 15′, to allow a view of the knife-blade, and in the center of which is formed a recess for the reception of the curved knife-blade 16. The body portion 8 is also formed with slots or recesses 17, adapted to receive and hold the flat springs 18, which project inwardly and occupy a portion of the longitudinal slot 11, formed in the body portion 8. The springs 18 extend inward until they reach the knife-blade 16. They form guides to hold the edge of the cloth presented to the knife-blade in proper relation thereto.

It will be noticed that the springs 18 are so held in position within the body portion that the outer ends thereof present curved surfaces to the entering piece of cloth. Every facility is thus afforded for guiding the piece of cloth and holding it in such relation to the curved knife-blade that the cutting operation can take place most advantageously. The body portion 8 is formed with a series of holes 19, a portion of which are adapted to receive studs 20, projecting from the inner sides of the side plates 9 and 10, and a portion of which are adapted to receive screws or rivets which pass through correspondingly-formed holes in the side plates and enable the side plates and body portion to be securely fastened together.

The operation of my invention is as follows: After the edge of a piece of cloth has been cut the portion at the end of the line of cut is introduced within the knife-case and presented to the knife-blade 16. By an onward thrust of the scissors the piece of cloth can now be cut with ease and certainty. It has been found that with the use of my cutting attachment greater assurance is obtained of making the line straight, also making the operation much more rapid—a feature very essential to clerks' use.

Having thus fully described my invention, what I desire to obtain and secure by Letters Patent is—

1. The combination with a pair of scissor-blades, of a knife-case secured to the shank of the blade operated by the forefinger of the cutter, a knife-blade therein, and means for holding the cloth to be cut at right angles to said knife-blade, substantially as described.

2. The combination with a pair of scissor-blades, of a knife-case secured to the shank of the blade operated by the forefinger of the cutter, a longitudinal slot therein, a knife-blade at the end of said slot at right angles to the cloth to be cut, and means for holding said cloth in position in said slot, substantially as described.

3. The combination with a pair of scissor-blades, of a knife-case secured to the shank of the blade operated by the forefinger of the cutter, a longitudinal slot therein, a knife-blade at the end of said slot at right angles to the cloth to be cut, and flat springs secured to the side of said slot for holding said cloth in position in said slot, substantially as described.

4. The combination with a pair of scissor-blades, having finger guards or handles, the blade operated by the forefinger of the cutter having recessed sides, and the finger-guard of said blade being formed with a grooved face, of a knife-case adapted to slide within said groove, upwardly-extending flanges on said knife-case adapted to fit into the recesses of said scissor-blade, a knife-blade within said case, and means for holding the cloth at right angles to said knife-blade, substantially as described.

5. The combination with a pair of scissor-blades, having finger guards or handles, the blade operated by the forefinger of the cutter having recessed sides, and the finger-guard of said blade being formed with a grooved face, of a knife-case adapted to slide within said groove, said case being formed of a body portion 8, and sides 9 and 10, longitudinal slots 11 formed in said body portion and sides, the squared recess 14, the knife-holder 15, the knife 16, and the springs 18, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THORSTEINN THORLAKSON.

Witnesses:

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W. J. THOMPSON.