

(No Model.)

C. HAMANN.
SCISSORS OR SHEARS.

No. 374,358.

Patented Dec. 6, 1887.

Fig. 1.

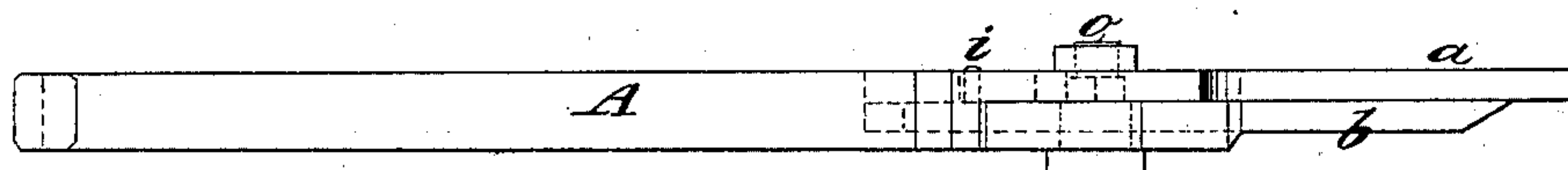


Fig. 2.

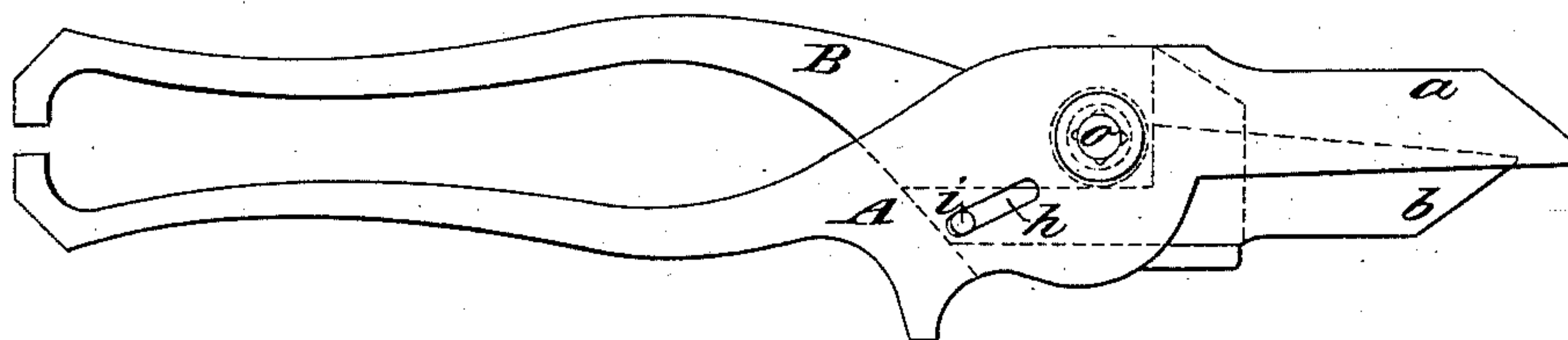


Fig. 3*.

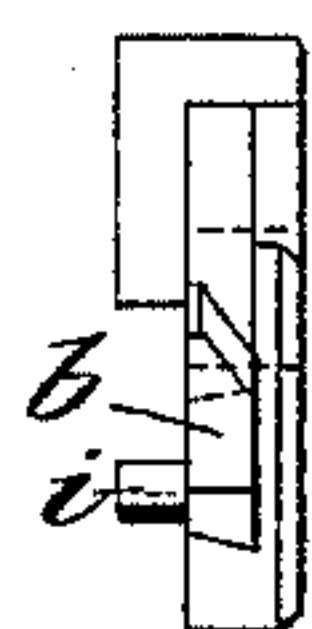


Fig. 3.

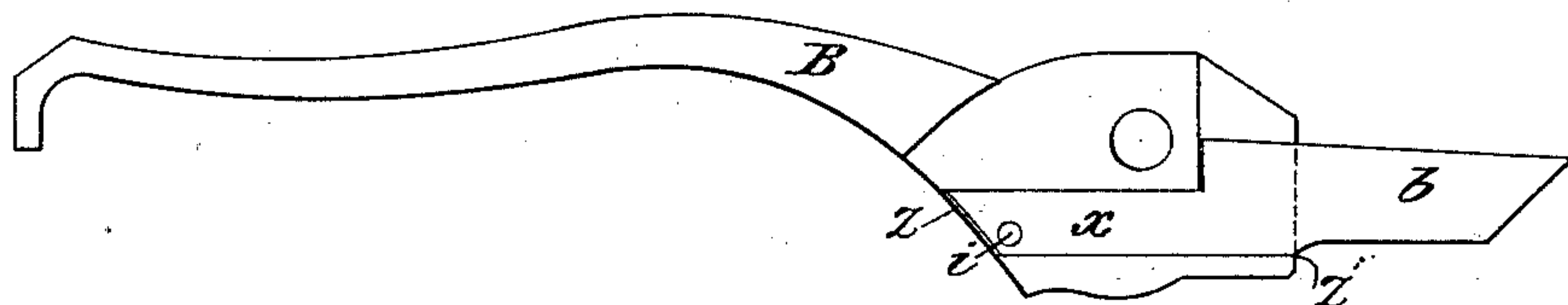


Fig. 4.

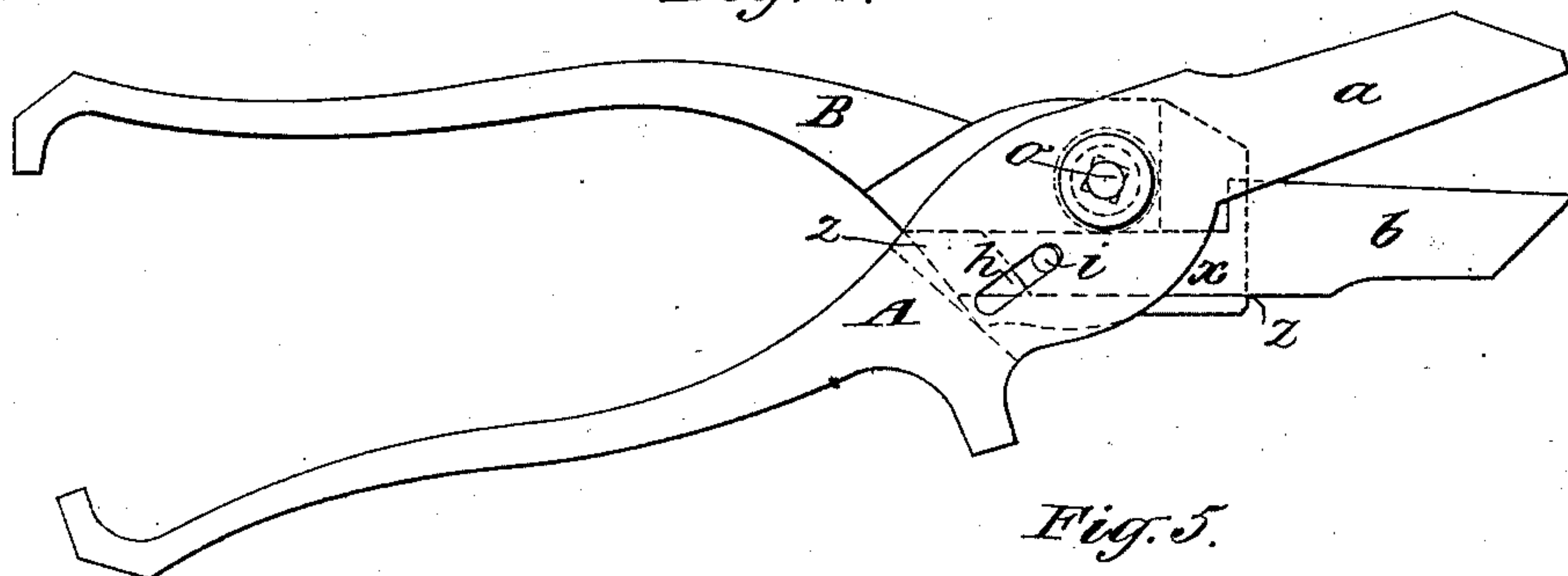
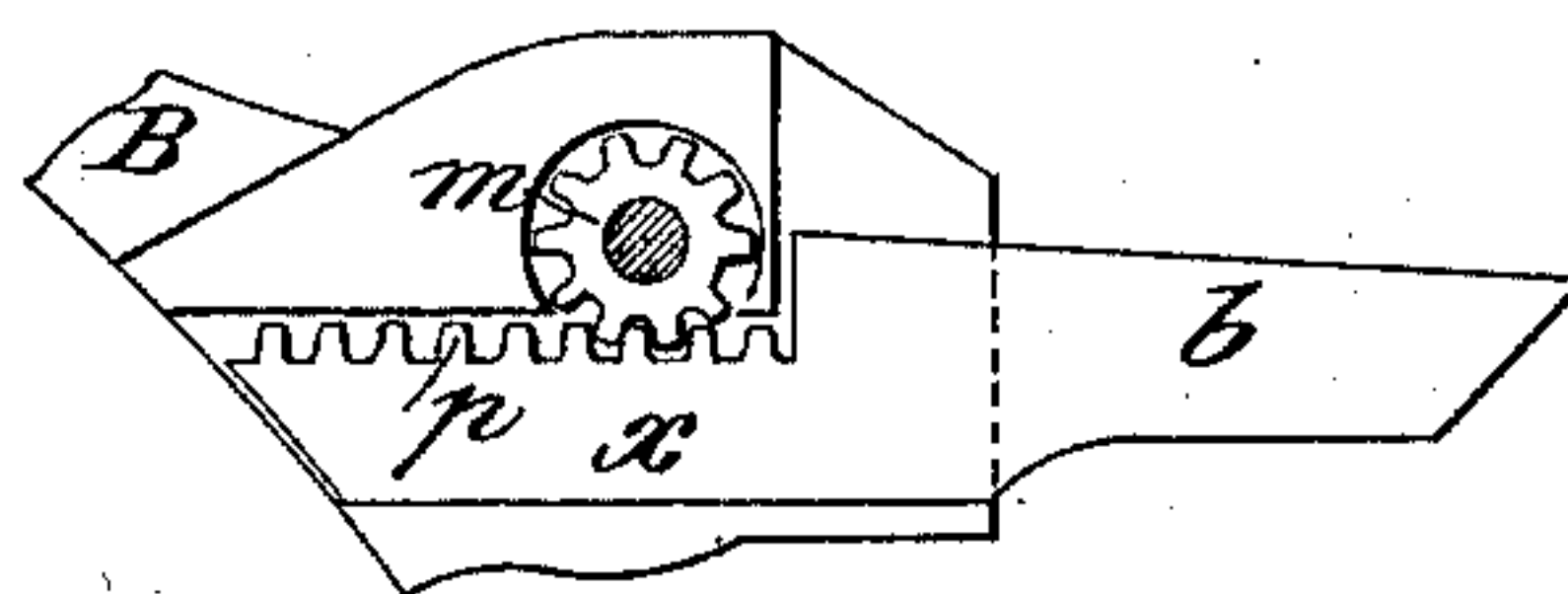


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

CARL HAMANN, OF REINBECK, PRUSSIA, GERMANY.

SCISSORS OR SHEARS.

SPECIFICATION forming part of Letters Patent No. 374,358, dated December 6, 1887.

Application filed September 21, 1887. Serial No. 250,284. (No model.) Patented in Belgium May 26, 1887, No. 77,607.

To all whom it may concern:

Be it known that I, CARL HAMANN, of Reinbeck, in the Kingdom of Prussia, German Empire, have invented a new and useful Improvement in Scissors or Shears, (for which I have obtained a patent in the Kingdom of Belgium, No. 77,607, dated May 26, 1887,) of which the following is a specification, reference being had to the accompanying drawings.

10 This invention consists in the combination, with one of the two pivoted limbs or shanks of a pair of scissors or shears, of a blade consisting of a separate piece, which is fitted to slide in the said limb or shank in such a manner that it performs when closing, besides the usual turning or pivotal movement of scissors, also an independent sliding cutting movement along the opposite or fixed cutting-edge provided on the other limb or shank.

20 Figure 1 in the drawings is a side view of a pair of scissors constructed according to my invention. Fig. 2 is a face view of the same, showing them closed. Fig. 3 is an inner face view of that limb or shank to which the sliding blade is fitted. Fig. 3* is an end view of the said limb or shank and sliding blade. Fig. 4 is a view corresponding with Fig. 2, except that it shows the scissors open. Fig. 5 is a face view corresponding with Fig. 3, but illustrating a modification of the means of producing the sliding movement of the blade.

Similar letters of reference indicate corresponding parts in the several figures.

35 A and B designate the two limbs or shanks of the scissors, pivoted together by a pivot, *o*, in the usual manner, and *a b* designate the cutting-blades. The blade *a* is, as usual, of one

piece with its limb or shank A, while the other limb or shank, B, has in its inner face a groove or slot, *z*, in which is fitted an extension, *x*, of the separate blade *b*, which is to be caused to slide longitudinally in said groove or slot by means of a suitable motion-transmitting mechanism set in operation by the opening or closing of the scissors. When opening the scissors, the movable blade is shifted outward, as shown in Fig. 4, and when closing them the said blade is moved inward, as shown in Fig. 2.

The motion-transmitting mechanism may consist of a toothed wheel, *m*, Fig. 5, rigidly connected with the limb or shank A of the scissors and gearing into teeth *p* on one side of the extension *x* of the blade *b*, or a pin, *i*, at the extension of the sliding blade may engage in an inclined notch, *h*, of the other limb or shank of the scissors, and thus cause the displacement of the blade when the scissors are opened or closed.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with the pivoted limbs of a pair of scissors or shears, of a blade fixed relatively to one limb and a separate blade fitted to slide within a groove or guide in the other limb, and means whereby the longitudinal movement of the said separate blade is caused to be produced by the pivotal movement of the two limbs, substantially as described, and explained in the accompanying sheet of drawings.

CARL HAMANN.

Witnesses:

F. ENGEL,
A. SCHAPER.