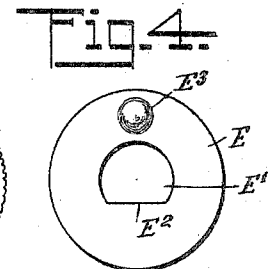
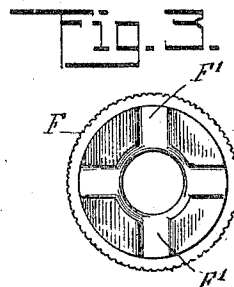
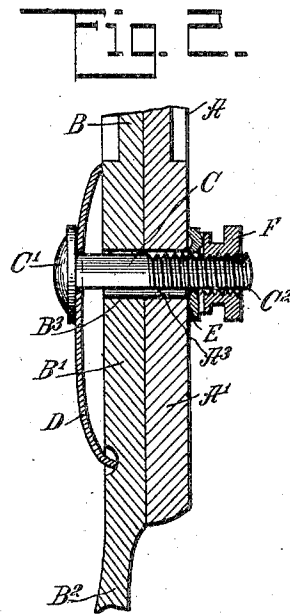
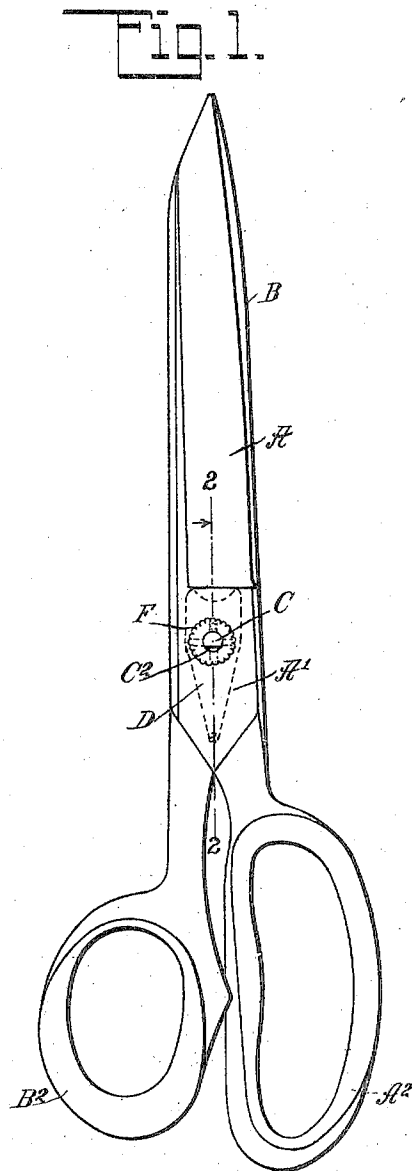


A. K. CHAPIN.
SCISSORS AND SHEARS.
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947,626.

Patented Jan. 25, 1910.



WITNESSES

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SCISSORS AND SHEARS.

947,626.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED K. CHAPIN, a citizen of the United States, and a resident of Bristol, in the county of Hartford and State of Connecticut, have invented new and useful Improvements in Scissors and Shears, of which the following is a full, clear, and exact description.

The object of the invention is to provide certain new and useful improvements in scissors and shears, whereby the blades can be conveniently and quickly adjusted by the employment of a spring device on the pivot, to produce the necessary tension between the blades, and thus bring the cutting edges into correct cutting or shearing position, the arrangement being such that the parts of the spring device are locked in the adjusted position, thus preventing the parts from gradually working loose and hence insuring proper working of the shears or scissors at all times.

For the purpose mentioned, a tension spring is interposed between the head of the pivot on which the blades are mounted to turn, and one of the said blades, and on the pivot a washer is held against turning, and a nut screws on the pivot against the said washer, which latter and the nut have interlocking means to hold the nut against working loose and thus preventing a reduction in the tension of the tension spring.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improved scissors or shears; Fig. 2 is an enlarged longitudinal section of the same on the line 2—2 of Fig. 1; Fig. 3 is a side view of the nut; and Fig. 4 is a face view of the washer.

The top and bottom blades A and B of the scissors or shears are provided with the faces A', B', terminating in the usual handles A², B², and the said blades A and B are mounted to turn on the pivot C extending loosely through registering apertures A³, B³, formed in the corresponding blades A and B. The pivot C is provided with a fixed integral head C', against the under side of which presses a flat spring D, resting with its ends on the face B' of the plate B,

as plainly indicated in Fig. 2. The pivot C is provided with a flat portion C² and is threaded at the outer end, and on the said pivot fits a washer E, seated on the face A' of the blade A, the said washer having the wall of its opening E' provided with a flattened portion E² fitting the flattened portion C² of the pivot C, to hold the washer E against turning on the pivot C.

A nut F screws on the threaded outer end of the pivot C and abuts against the said washer E, and the under side of the nut F is provided with a series of recesses F', preferably arranged radially and adapted to engage a lug E³ integral on the outer face of the washer E. Now when the several parts are assembled, as shown in Figs. 1 and 2, and the nut F is screwed up on the pivot C, then the spring D is placed under tension so as to press the blades A and B toward each other to a more or less degree. The nut F is turned until one of its recesses F' engages the lug E³, so that the nut F is locked against turning on the pivot C, as the washer E is held against turning, and its lug E³ engaging one of the recesses F' holds the nut F from turning. As the spring D is under tension, it is evident that the nut F is carried by the pivot C in firm contact with the face of the washer E, and as the nut F is held against turning by the washer E, it is evident that the several parts are not liable to gradually work loose, and hence the proper working of the scissors or shears is insured at all times.

It is understood that when adjusting the tension of the spring D to a more or less degree, the nut F is turned sufficiently to bring one of the recesses F' into engagement with the lug E³ on the washer E.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

Scissors or shears, comprising a pair of blades, a pivot on which both blades are mounted to turn loosely, the pivot having a head and a flattened threaded portion, a spring interposed between the said pivot head and the blade adjacent to the said pivot head, a washer seated on the other blade and engaging the said pivot, the washer having a portion of the wall of its opening flattened and fitting the flattened portion of the said pivot, to hold the washer against turn-

ing on the pivot, and the washer having an
integral lug on its outer face, and a nut
screwing on the said pivot and having
spaced recesses on its under face for succes-
5 sive engagement with the said lug, to pre-
vent the nut from working loose on the
pivot.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

ALFRED K. CHAPIN.

Witnesses:

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HARRY A. HANNUM.