

O. WEAVER.
SCISSORS AND SHEARS.
APPLICATION FILED MAY 22, 1905.

Fig. 1.

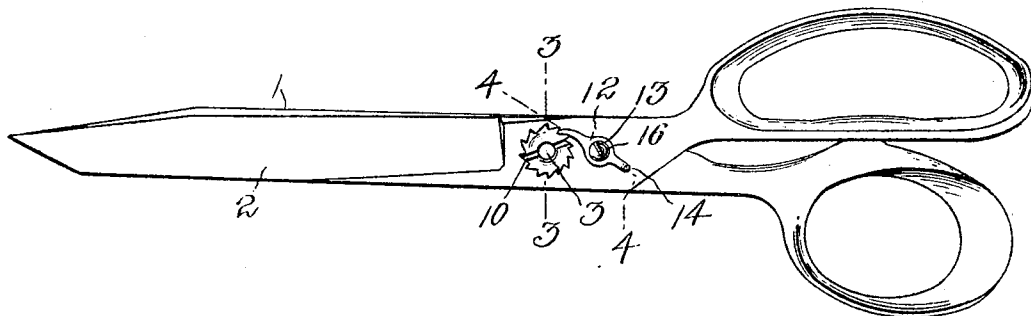


Fig. 2.

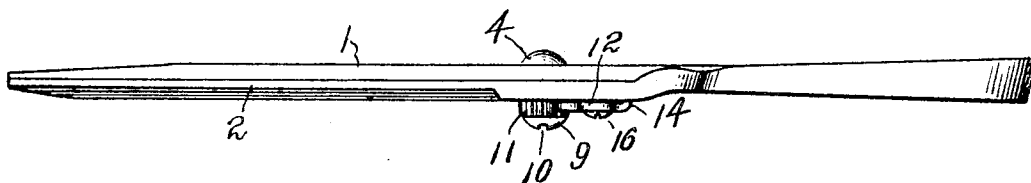


Fig. 3.

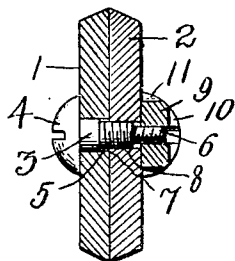
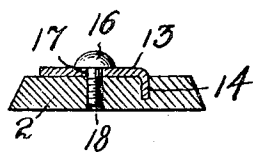


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

OSCAR WEAVER, OF MAUCHCHUNK, PENNSYLVANIA.

SCISSORS AND SHEARS.

No. 800,522

Specification of Letters Patent.

Patented Sept. 26, 1905.

Application filed May 22, 1905. Serial No. 261,567.

To all whom it may concern:

Be it known that I, OSCAR WEAVER, a citizen of the United States, residing at Mauchchunk, in the county of Carbon and State of Pennsylvania, have invented certain new and useful Improvements in Scissors and Shears; and I do 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 shears, and more particularly to means for locking the pivotal connections of their cutting-blades.

The object of the invention is to improve and simplify the construction of devices of this character, and thereby render the same more durable and efficient in use.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side view of a pair of shears with my improvements applied thereto. Fig. 2 is an edge view of the same. Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 1, and Fig. 4 is a detail sectional view taken on the line 4 4 of Fig. 1.

Referring to the drawings by numeral, 1 and 2 denote cutting-blades of a pair of scissors, shears, or similar instrument which are pivotally connected by a pivot-bolt 3. The bolt 3 has a head 4, a large body portion 5, which is threaded, preferably, with a left-hand thread, and a reduced body portion or end 6, which is threaded, preferably, with a right-hand thread or with a thread having a direction opposite to that of the thread 5. The large body portion of the pivot-bolt passes freely through an opening 7, formed in the blade 1, and has its threads 5 engaged with similar screw-threads 8, formed in an opening in the blade 2. The bolt is thus carried by the blade 2 and forms a pivot upon which the blade 1 may oscillate freely. The reduced oppositely-threaded portion or end 6 of the bolt extends through the opening 8 in the blade 2 and is engaged by a nut 9. The latter is preferably constructed as shown and is formed in its top with a transverse groove or slot 10 to receive a screw-driver for the purpose of adjusting it and around its outer edge or periphery with an annular series of

ratchet-teeth 11, by means of which it may be locked against rotation. The locking means which coacts with these ratchet-teeth is here shown in the form of a spring-pawl 12, secured upon the blade 2. This spring or resilient pawl 12 is formed at one end of a locking-plate 13, which has at its opposite end an angularly-bent portion 14, adapted to enter a recess or opening formed in the blade 2, as clearly shown in Fig. 4. The locking-plate 13 is secured in position by a screw 16, which is passed through an opening 17, formed in said plate, and into a screw-threaded recess or opening 18, formed in the blade 2. It will be seen that when the nut is tightened upon the bolt to draw the blades 1 and 2 together the resiliency of the pawl 12 will permit the teeth of the ratchet-nut to pass under the same, but will prevent the nut from turning or being turned in a reverse direction. In order to loosen or remove the nut, the locking-plate 13 must be first removed by removing the screw 17. It will be seen upon reference to Fig. 3 of the drawings that the large threaded portion 5 of the bolt 3 is of less length than the combined thickness of the two blades 1 2, so that the nut 9 may be screwed snugly against the face of the blade 2. This permits the parts to be adjusted from time to time to take up the wear. It will be also understood that the threads 5 and 6 run in opposite directions and that either one may be either a right-hand or a left-hand thread.

The construction, use, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that the pivot-bolt will be securely locked in position, but at the same time may be quickly and easily adjusted to compensate for wear.

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

1. The combination with two cutting-blades having pivot-openings, the opening in one blade being screw-threaded, of a pivot-bolt extending through said openings and formed with a large threaded portion to engage the threads in said threaded opening and with a reduced, oppositely-screw-threaded portion, a nut upon the latter, and means for locking said nut.

2. The combination with two cutting-blades having pivot-openings, the opening in one blade being screw-threaded, of a pivot-

bolt extending through said openings and
formed with a large threaded portion to en-
gage the threads in said threaded opening
and with a reduced, oppositely-screw-thread-
ed portion, a nut upon the latter, and a dog
for locking said nut.

3. The combination with two cutting-
blades having pivot-openings, the opening in
one blade being screw-threaded, of a pivot-
bolt extending through said openings and
formed with a large threaded portion to en-
gage the threads in said threaded opening
and with a reduced, oppositely-screw-thread-
ed portion, a nut upon the latter, formed
with ratchet-teeth, and a spring-seated dog
or pawl to engage said teeth, substantially as
described.

4. The combination with two cutting-
blades having pivot-openings, the opening in
one blade being screw-threaded, of a pivot-
bolt extending through said openings and

formed with a large threaded portion to en-
gage the threads in said threaded opening
and with a reduced, oppositely-screw-thread-
ed portion, a nut upon the latter, formed
with ratchet-teeth, a locking-pawl formed
with a central aperture, a spring dog or pawl
at one end to engage said ratchet-teeth, an
angularly-bent portion at its opposite end
adapted to seat in an opening in one of said
blades, and a screw passed through the open-
ing in said locking-plate and into a threaded
opening in the last-mentioned blade, sub-
stantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

OSCAR WEAVER.

Witnesses:

THOMAS RILEY, Sr.,
MICHAEL BROGAN.