

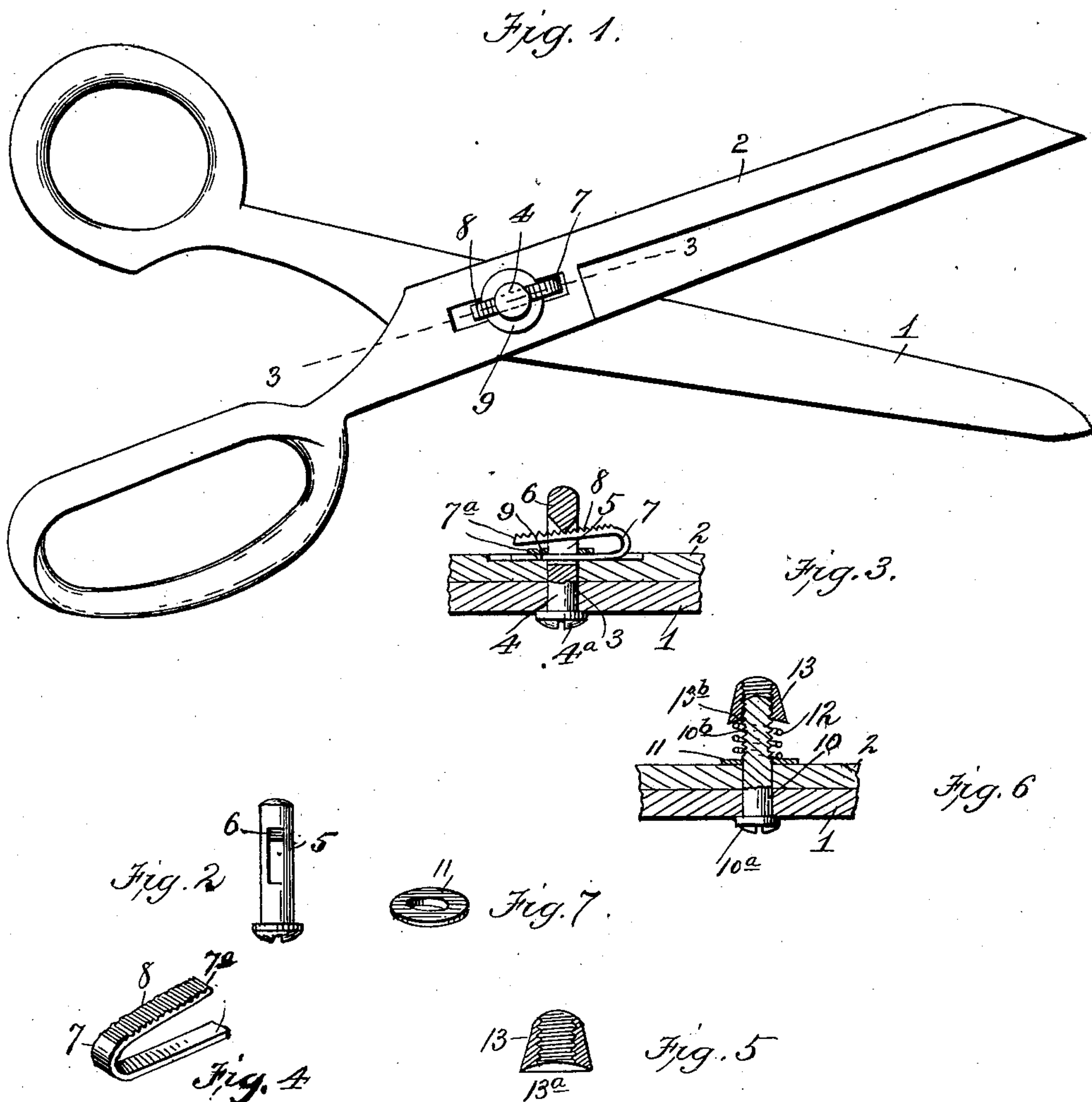
No. 705,444.

Patented July 22, 1902.

W. RICHARD.  
SHEARS.

(Application filed Apr. 1, 1902.)

(No Model.)



Witnesses:  
*F. L. Curand*  
*Frank G. Radelfinger.*

Inventor:  
*Wm Richard*  
by *Lawyer*  
*Lawyer & Co*  
Attorneys.

# UNITED STATES PATENT OFFICE.

WILLIAM RICHARD, OF BLOOMVILLE, OHIO, ASSIGNOR OF ONE-HALF TO  
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## SHEARS.

SPECIFICATION forming part of Letters Patent No. 705,444, dated July 22, 1902.

Application filed April 1, 1902. Serial No. 100,926. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM RICHARD, a citizen of the United States, residing at Bloomville, in the county of Seneca and State of Ohio, have invented new and useful Improvements in Shears, of which the following is a specification.

My invention relates to shears; and the object of the same is to construct an improved device of this character which will always remain tight and be elastic in its action and be provided with means for adjustment.

The novel construction employed by me in carrying out my invention is fully described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a plan view of my device. Fig. 2 is a detail of the bolt. Fig. 3 is a longitudinal section through the bolt on the line 3 3, Fig. 1. Fig. 4 is a detail of the spring. Fig. 5 is a detail of the nut. Fig. 6 is a detail of a modified form. Fig. 7 is a detail of the washer.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates one blade of a pair of shears, and 2 the other blade. These blades are apertured at 3 and are secured together by a bolt 4, having a head 4<sup>a</sup>. A slot 5 is cut in the bolt, and a small rigid pawl 6 is formed in one end of the slot. A V-shaped spring 7, having diverging arms 7<sup>a</sup>, is mounted in the slot 5 and bears a rack 8 on one arm 7<sup>a</sup>, which rack is engaged by the pawl. A groove 9 is formed in the blade 2 and is engaged by the arm 7<sup>a</sup> to prevent its being deranged when operating the shears. From the construction shown it is obvious that the pressure between the blades 1 and 2 can be

regulated by changing the position of the spring 7.

In the modified form illustrated in Fig. 6 a bolt 10 is employed having a head 10<sup>a</sup> and a threaded shank 10<sup>b</sup>. A rubber washer 11 is slipped on the bolt and fits snugly against the blade 2. A spiral spring 12 surrounds the bolt 10 and bears on the washer, and a nut 13, having a concave face 13<sup>a</sup>, serves to hold the spring 12 in place. The force of the spring 12 can be regulated by the use of the nut 13.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a pair of shears, the combination with a pair of apertured blades, one of said blades having a groove thereon extending transversely the aperture therein, of a bolt passing through said aperture, said bolt having a slotted shank bearing a pawl, and a V-shaped spring bearing a rack and mounted to engage said pawl and said groove, substantially as described.

2. In a pair of shears, the combination with two apertured blades, of a bolt passing through said apertures, said bolt having a slotted shank bearing a pawl, and a V-shaped spring bearing a rack engaged by said pawl, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM RICHARD.

Witnesses:

C. A. WEIDAN,  
J. S. CARLIN.