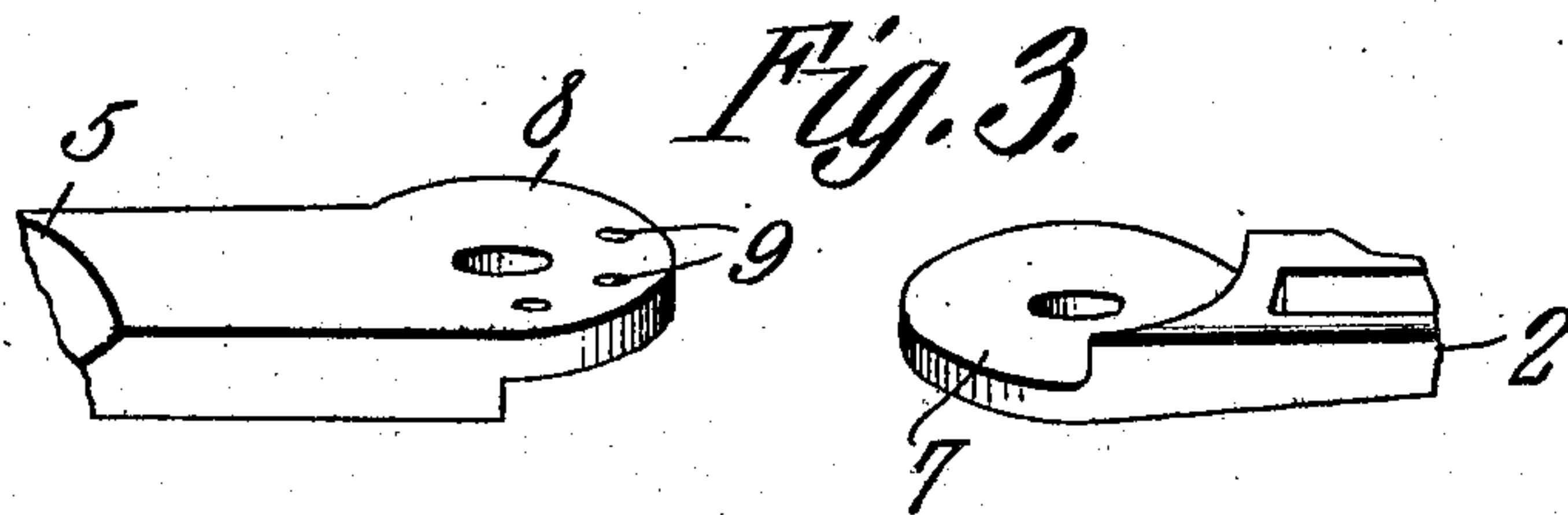
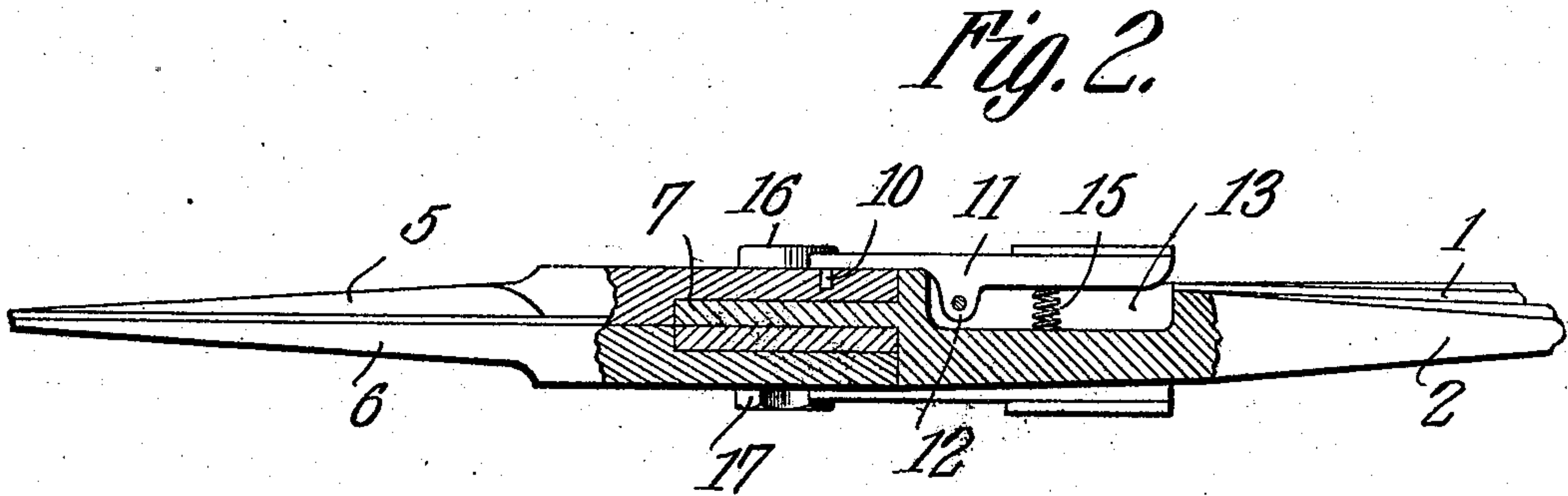
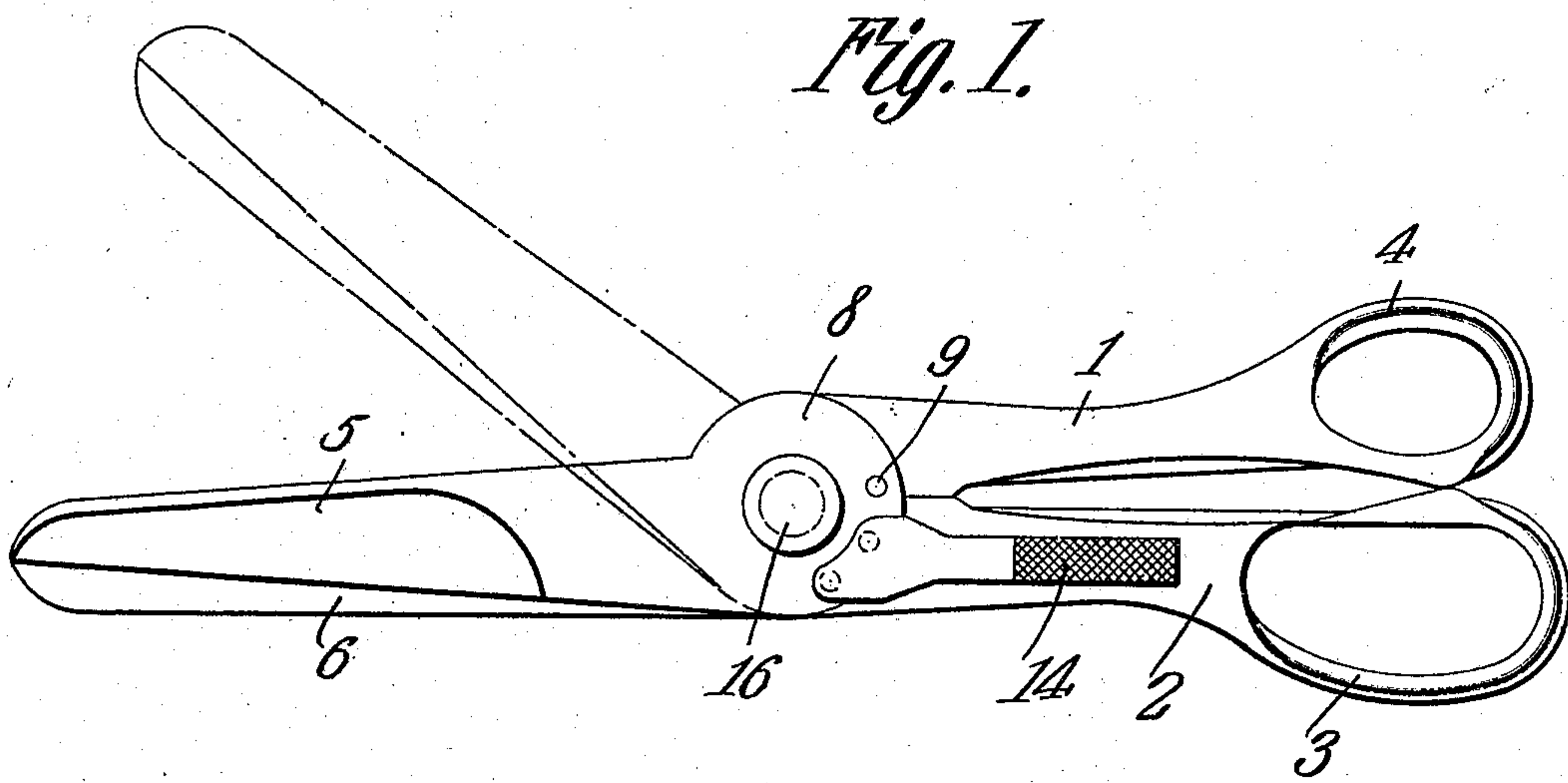


A. WESTERDAHL.  
SHEARS.  
APPLICATION FILED JUNE 4, 1908.

916,075.

Patented Mar. 23, 1909.



Witnesses:

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# UNITED STATES PATENT OFFICE.

ANTON WESTERDAHL, OF CARNEY, MICHIGAN.

## SHEARS.

No. 916,075.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed June 4, 1908. Serial No. 436,682.

*To all whom it may concern:*

Be it known that I, ANTON WESTERDAHL, a citizen of the United States, residing at Carney, in the county of Menominee and State of Michigan, have invented a new and useful Shears, of which the following is a specification.

This invention relates, generally, to shears, and more particularly to that class wherein the blades are adjustable relatively to the handles, thus to adapt the shears for uses that the ordinary shears having rigid blades are not capable of.

The object of the present invention is to improve the manner of assembling the blades with the handles, and to simplify the construction of and render more efficient the means for locking the blades at different adjustments.

With the above and other objects in view as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a pair of shears, as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of this specification, and in which like characters of reference indicate corresponding parts,—Figure 1 is a plan view showing the normal position of the blades in full lines and one adjusted position in dotted lines. Fig. 2 is a vertical longitudinal sectional view through the shears. Fig. 3 is a detail view showing more particularly the joint between one of the blades and its handle.

The shears, as usual, embody two handles 1 and 2 provided with finger and thumb loops 3 and 4, and two blades 5 and 6. As the manner of assembling each of the blades with its handle is the same, a description of one will serve for both.

The handle is provided with a flat circular extension 7 which is cut away on its outer face to provide a seat to receive the head 8 of the blade, the two heads being of the same contour, and the juncture between the heads being in the nature of a rule joint. Arranged in the arc of a circle concentric with the pivotal point of the blade is a series of openings 9, of which three are shown in this instance, although a greater number may be provided, and these openings are engaged by a pair of

pins 10 carried by one end of a lever 11 disposed on the outer side of the handle. This lever is provided with an ear 12 that is pivotally mounted within a longitudinal slot or recess 13 in the outside of the handle, and is of such depth as to permit the end of the lever opposite that carrying the pins to be depressed a sufficient distance to clear the pins from the orifices. The end of the lever that will be depressed is roughened or corrugated, as shown at 14, thus to prevent slippage of the finger therefrom, and is held normally projected beyond the face of the handle by a coiled spring 15 that bears, respectively, against the lower wall of the chamber 13 and the under face of the finger hold of the lever.

The two heads of the handles and the two blades are held assembled for pivotal movements by a screw or bolt 16 of any preferred character, the screw in this instance being shown as provided with a head bearing upon the blade 5 and carrying at its other end a nut 17 that bears against the blade 6.

Normally, the blades will occupy the position shown in full lines in Fig. 1, but should it be desired to adjust the blades at an angle relatively to the handles, the levers 14 are depressed and the blades are swung upon the bolt 16 to the proper angle in which they are locked by the studs 10 engaging with the sockets 9.

The improvements herein defined while simple in character will be found thoroughly efficient for the purpose designed and will result in the provision of an efficient, durable and highly convenient type of shears.

What is claimed is:—

1. An implement of the class described including operating handles, cutting blades pivotally connected with the operating handles and provided with spaced locking recesses arranged in the arc of a circle, and levers pivotally connected with the handle and provided with pins to engage the recesses.

2. An implement of the class described including operating handles each provided with a chamber, cutting blades pivotally connected with the handles and provided with spaced locking recesses, and levers fulcrumed within the chambers and carrying pins to engage with the recesses.

3. An implement of the class described,  
including operating handles each provided  
with a chamber, cutting blades pivotally con-  
nected with the handles and provided with  
5 spaced locking recesses, and spring-pressed  
levers fulcrumed within the chambers and  
carrying pins to engage with the recesses.

In testimony that I claim the foregoing as  
my own, I have hereto affixed my signature  
in the presence of two witnesses.

ANTON WESTERDAHL.

Witnesses:

C. E. GUARD,  
RONALD GARRIGAN.