No. 877,691. PATENTED JAN. 28, 1908.

O. WITT.

SHEARS.

APPLICATION FILED DEC. 21, 1905.

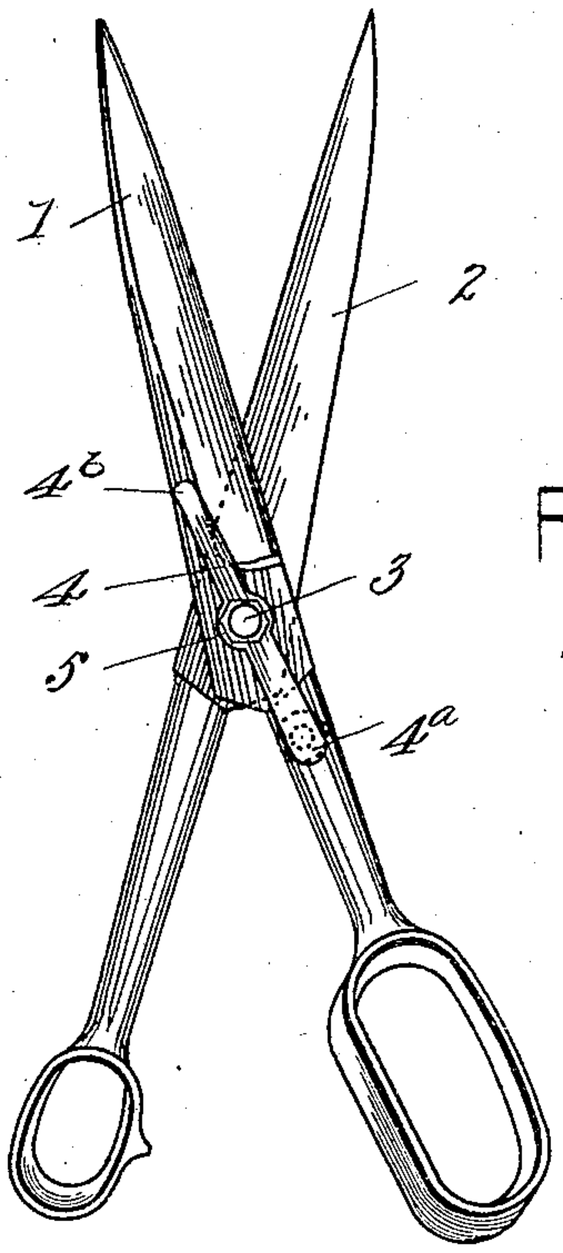


Fig 1

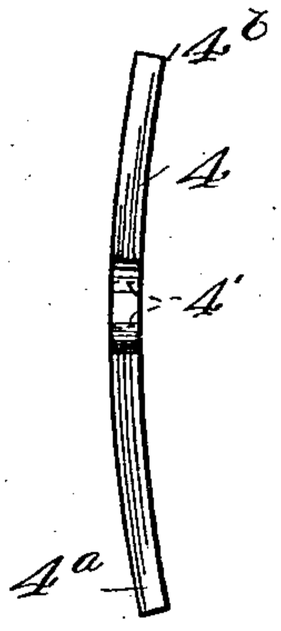


Fig 3

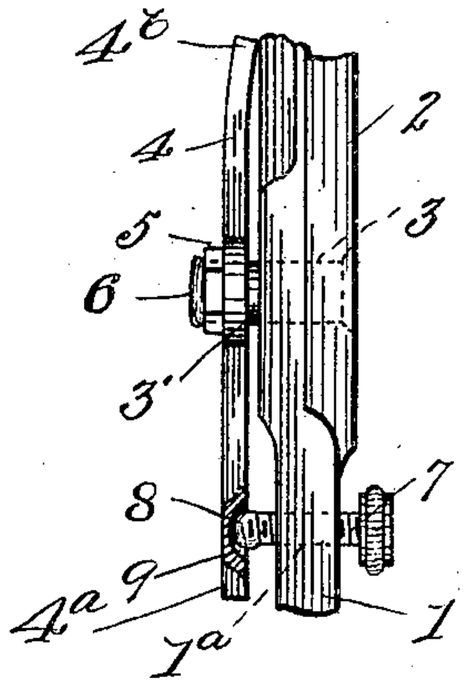


Fig 2

WITNESSES

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OTTO WITT, OF MACON, MISSOURI.

## SHEARS.

No. 877,691. Specification of Letters Patent. Patented Jan. 28, 1908.

Application filed December 21, 1905. Serial No. 292,842.

*To all whom it may concern:*

Be it known that I, OTTO WITT, a citizen of the United States, residing at Macon, in the county of Macon and State of Missouri, have invented certain new and useful Improvements in Shears, of which the following is a specification.

My present invention relates to shears or scissors, and has for its object the provision of an improved attachment to be used with this class of instruments for adjusting or binding the blades of the shears or scissors to compensate for wear.

A further object is the provision of a device which is adapted for use with shears of ordinary construction, with but slight alteration to the same, and a still further object is to improve devices of this character in the matter of simplicity, durability, and efficiency; and as the device is composed of a minimum number of elements, it is compact, offering no obstruction to the ready manipulation of the shears, and is not liable to become disarranged.

The invention consists essentially of a bow shaped elastic spring steel lever, secured on the pintle or pivot of a pair of shears, and a thumb screw on one of the blades of the shears for adjusting the pressure of the lever on a blade to bind the blades, and means for holding the screw and lever in proper position to prevent the latter from slipping or becoming disarranged, all as will be pointed out specifically in the claims.

In the drawings: Figure 1 illustrates a pair of shears having my improved device attached thereto. Fig. 2 is an enlarged side view showing so much as is necessary to illustrate the invention, part of the lever being broken away for convenience of illustration, and Fig. 3 is a side view of the spring lever, detached.

As previously stated my device is applicable to shears of ordinary construction, and as illustrated in the physical embodiment of my invention the blades 1 and 2 are pivoted and adapted to be opened or closed on the pintle 3 as usual. Preferably the pintle 3 is extended beyond the plane of the blades, as at 3′ and said extension affords a seat for the lever 4, which lever is provided with an opening or perforation 4′ adapted to fit over the extension 3′. The opening or perforation 4′ is sufficiently large to permit a slight rocking movement of the lever on the extension 3′, as a pivot.

Lever 4 is preferably of spring or elastic steel, and as shown in Fig. 3 in normal position is bowed in shape. The lever is secured to the pintle extension 3′ by a nut 5 which holds the blades of the shears together, and in practical use, to prevent accidental turning of the nut, I have found it desirable that the head of the pintle be turned down or riveted, as at 6.

Below the pivot center of the blades, and as illustrated in the blade 1, a hole $1^a$ is tapped therein to receive the thumb screw 7, which screw is provided with an enlarged head 8 adapted to bear on the concaved surface or wall of the bowl shaped depression 9 in the lower end of the lever 4.

In use, as the blades become worn, to compensate for the looseness between the blades caused thereby, the thumb screw 7 may be turned, and the head 8 bearing against the concave surface 9 forces the lower end $4^a$ of the lever 4 outwardly or away from the shears blade, causing the upper end $4^b$ of lever 4, to bear with renewed pressure on the blade above the pivot or pintle 3, thus binding the blades together to a degree as is desirable.

The head 8 having its bearing in the concaved recess 9 insures a proper contact between these members at all times, as the recess prevents the disarrangement of the lever from its position. The elasticity or resiliency of the spring lever insures a continuous pressure on the blades, holding them in adjusted and operative position for cutting, and the riveted head 6 of the pintle insures a durable connection of the several parts at the pivot point. The opening 4′ in the lever 4, which fits over the extension of the pintle, in actual practice, is sufficiently large to permit movement of the lever, but is not large enough to destroy the rigidity of the parts at the connection.

From the above description, taken in connection with the drawings, it will be obvious that I have produced a device which fulfills the conditions and purposes set forth as the objects of the invention.

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

A pair of shears consisting of cutting-blades pivotally secured together by a threaded pivot pin or pintle, a thin bow shaped elastic lever provided with an approximately centrally disposed perfora-

tion, a portion of said pivot pin or pintle passing through and loosely engaged for relatively rocking movement within said perforation, and a nut engaging upon the end of said threaded pivot pin to hold the same and said lever in adjustable operative engagement, one end of said lever bearing upon one of the cutting blades and the other end thereof being in engagement with an adjusting thumb screw tapped through the shank of said blade from the opposite side of said pivot pin, whereby said blades may be pressed together to any desired degree uniformly throughout their cutting sections.

In testimony whereof I affix my signature in presence of two witnesses.

OTTO WITT.

Witnesses:
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J. L. HOLLAND.