Nov. 17, 1931. O. MELBYE 1,832,495

SHEARS

Filed April 4, 1931

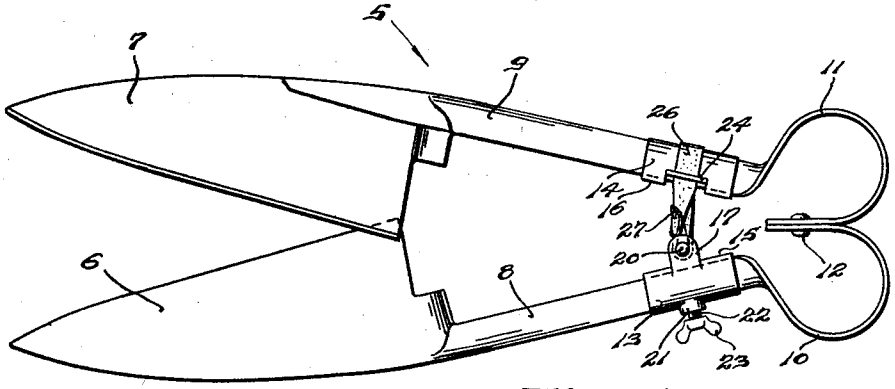

Fig. 1

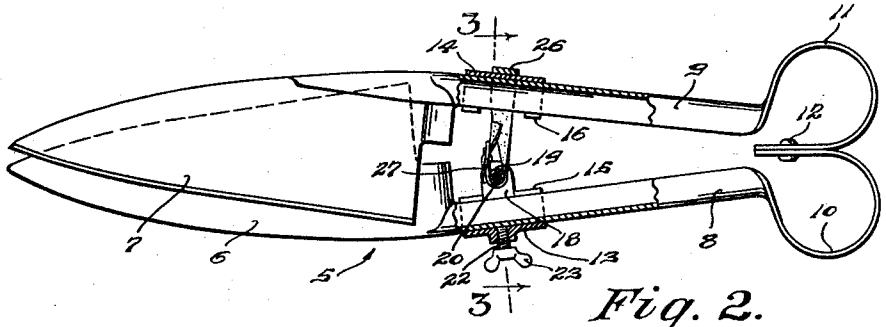

Fig. 2.

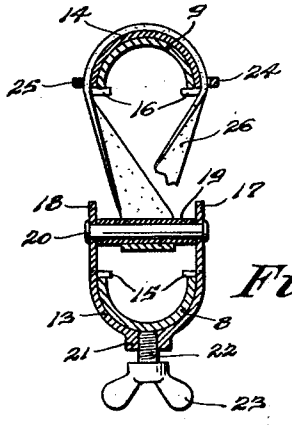

Fig. 3.

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UNITED STATES PATENT OFFICE

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SHEARS

Application filed April 4, 1931. Serial No. 527,709.

This invention relates to regulating devices for spring-shears, and more particularly, to improved mechanism of this character peculiarly conceived to the end of attaining a more advantageous and efficient spring-shear than heretofore.

The object of the invention is the provision of inexpensively constructed means arranged for mounting engagement with respect to a pair of shears for adjustably interconnecting the same, one to the other, and wherein the same are adapted for selective slide activity and locking engagement in a most efficient manner regulating the throat spread of the oppositional shearing edges.

More particular objects co-related with the above will become apparent in the course of the following detailed description and the claims, the invention consisting in the novel construction, adaptation and combination of parts hereinafter described and claimed.

In the drawings:

Figure 1 is a side elevation of a conventional pair of clipping shears with the preferred embodiment of the present invention applied thereto. Fig. 2 is a similar view, representing a confined disposition of the shearing blades with parts more particularly related to the present invention broken away and shown in longitudinal vertical section. Fig. 3 is a transverse vertical section taken on an enlarged scale, substantially on line 3—3 of Fig. 2.

Reference being had thereto, the numeral 5 generally designates a pair of conventionally conformed shears, comprising blades 6, 7, one sprung over the other, with the integral shanks 8, 9 terminating in looped spring elements 10, 11 interconnected as by a rivet 12 in affording normal extension of the shearing edges retractively of a manual compression.

More particularly to the present invention I provide, represented by 13, 14, a pair of saddle members configured substantially in conformity to the transverse sectional shank contour and adapted, through respective struck-in retention rib portions 15, 16, to sliding engagement over the respective shanks.

Saddle 13, in a disposition preferably medially of its length, is conformed in a manner to present upstanding wings 17, 18 for the interposition therebetween of a transverse spacing rod 19, said rod being of an annular configuration adapted to the reception through the same and horizontally aligned apertures of the wings, of a riveted or otherwise suitably retained bolt 20.

Saddle 13, moreover, in the outer periphery and in a substantial transverse vertical plane taken medially of retention ribs 15, provides an apertured socket 21 suitably screw-threaded for the engagement of a set-screw 22, wing-nut 23 of which affords a manual locking control in opposition to the ribs.

Saddle member 14 is advantageously conformed to provide vertically apertured struck-out lugs 24, 25 for the engagement of a flexible strap 26, said strap being adjustably interconnected to the saddle 13 as by passing the same about rod 19 and coupling the free ends through the medium of a hasp or buckle 27.

The construction and operation is believed clear. Extreme blade spread to dispose the saddle members in their rearmost disposition as represented in Fig. 1 is accommodated through a slide retraction of the same, being advantageously locked through a half-turn to the thumb-nut 23. Releasing the set screw and manipulating the slides progressively of the blades confines the latter to a desired position.

What I claim, is,—

1. In apparatus of the character described, the combination with oppositional blade shanks having an arcuate transverse sectional contour, of a pair of saddle members conforming to said shank contour and arranged for slide reception longitudinally of respective shanks, means to secure a flexible strap with respect to one of said saddle members, a transverse horizontal rod rigid with the other of said saddle members, means for engaging said strap about said rod, and means for locking said saddle members in selective locations of the shank lengths.

2. In apparatus as defined in claim 1, wherein said saddle members provide struck in ribs for retaining the same to respective

shanks, and wherein said locking means is adapted to compressibly engage said ribs to the shank.

3. In apparatus of the character described, the combination with the shanks of oppositional shearing blades, of a pair of saddle members arranged for slide reception longitudinally of said shanks, means to secure a flexible strap with respect to one of said saddle members, a transverse horizontal rod rigid with the other of said saddle members, means for engaging said strap about said rod, and means for locking said saddle members in selective locations longitudinally of said shanks.

4. In apparatus of the character described, the combination with the shanks of oppositional shearing blades, of slide members for respective shanks, means to retain said slides on said shanks, flexible means for intercoupling said slide members, one to the other, and means for locking said members in selective dispositions longitudinally of the shank lengths.

Signed at Seattle, Washington, this 24 day of March, 1931.

OSKAR MELBYE.