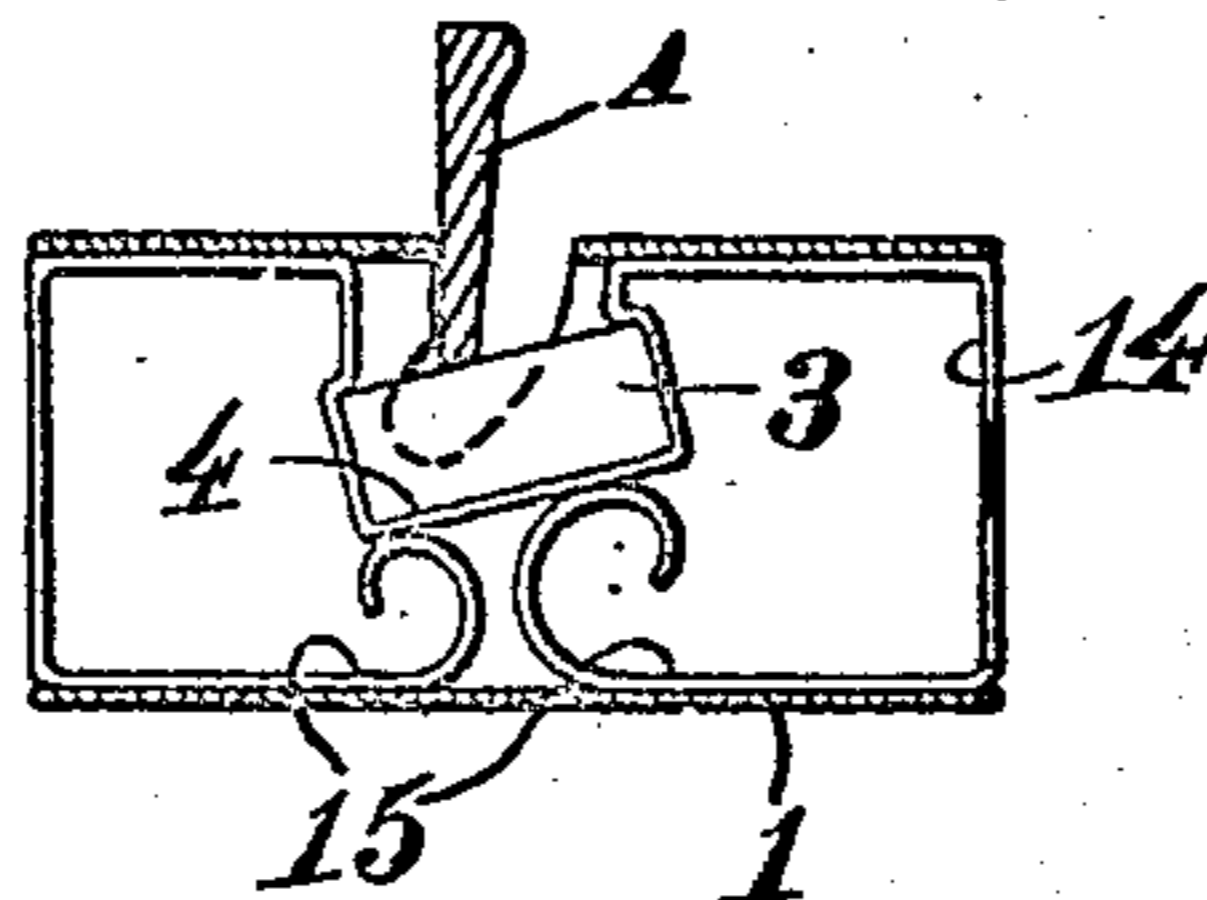
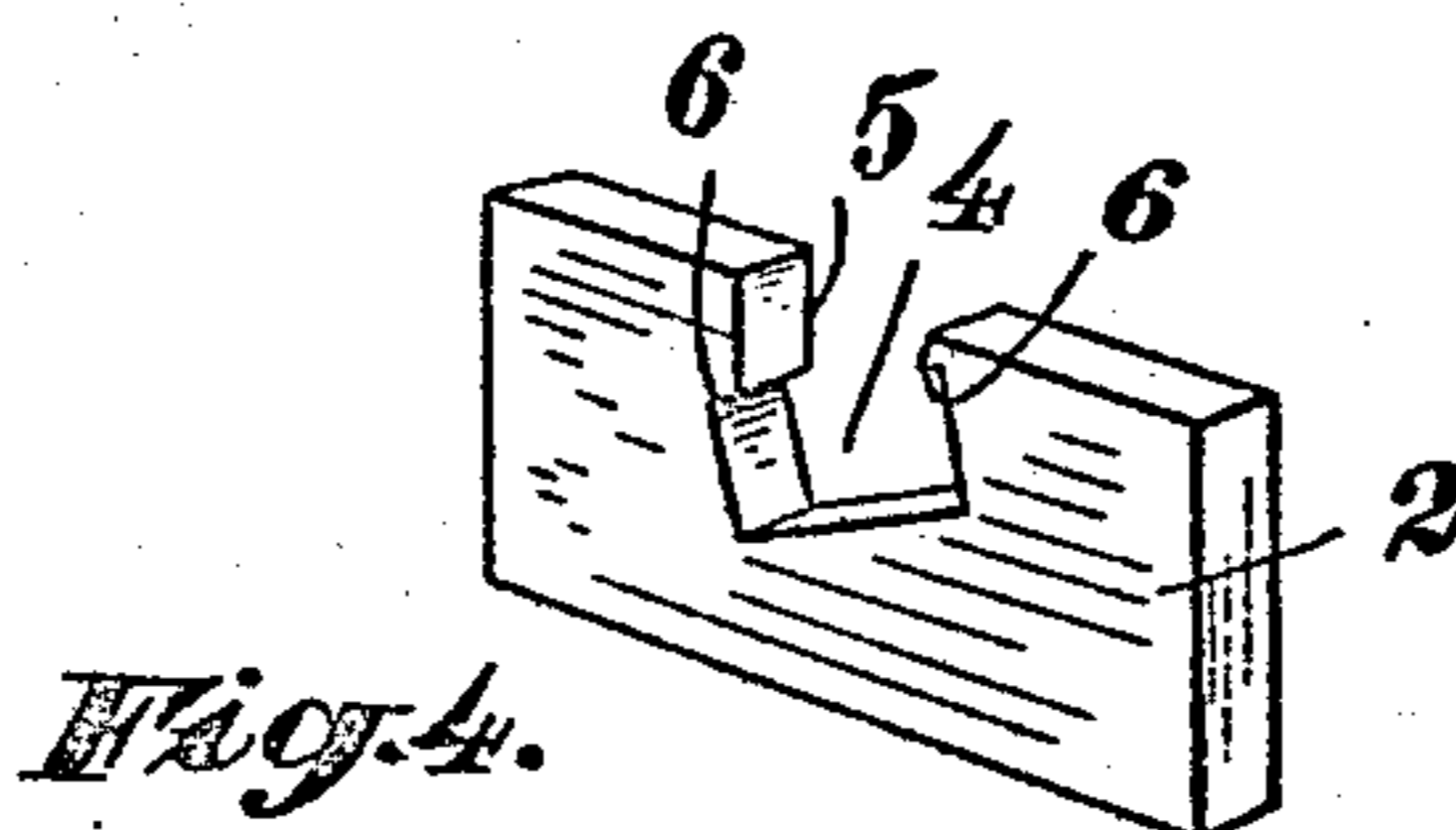
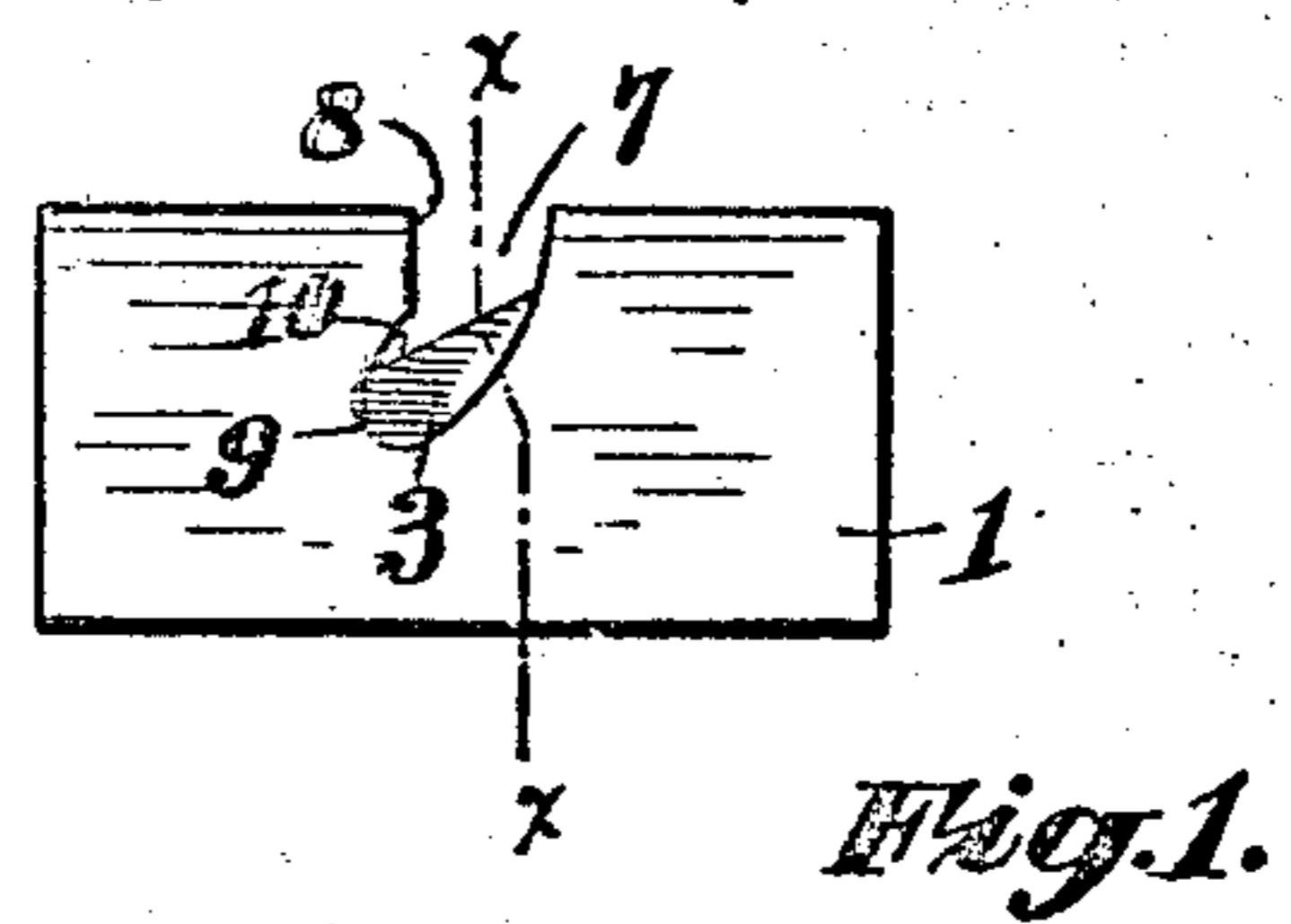
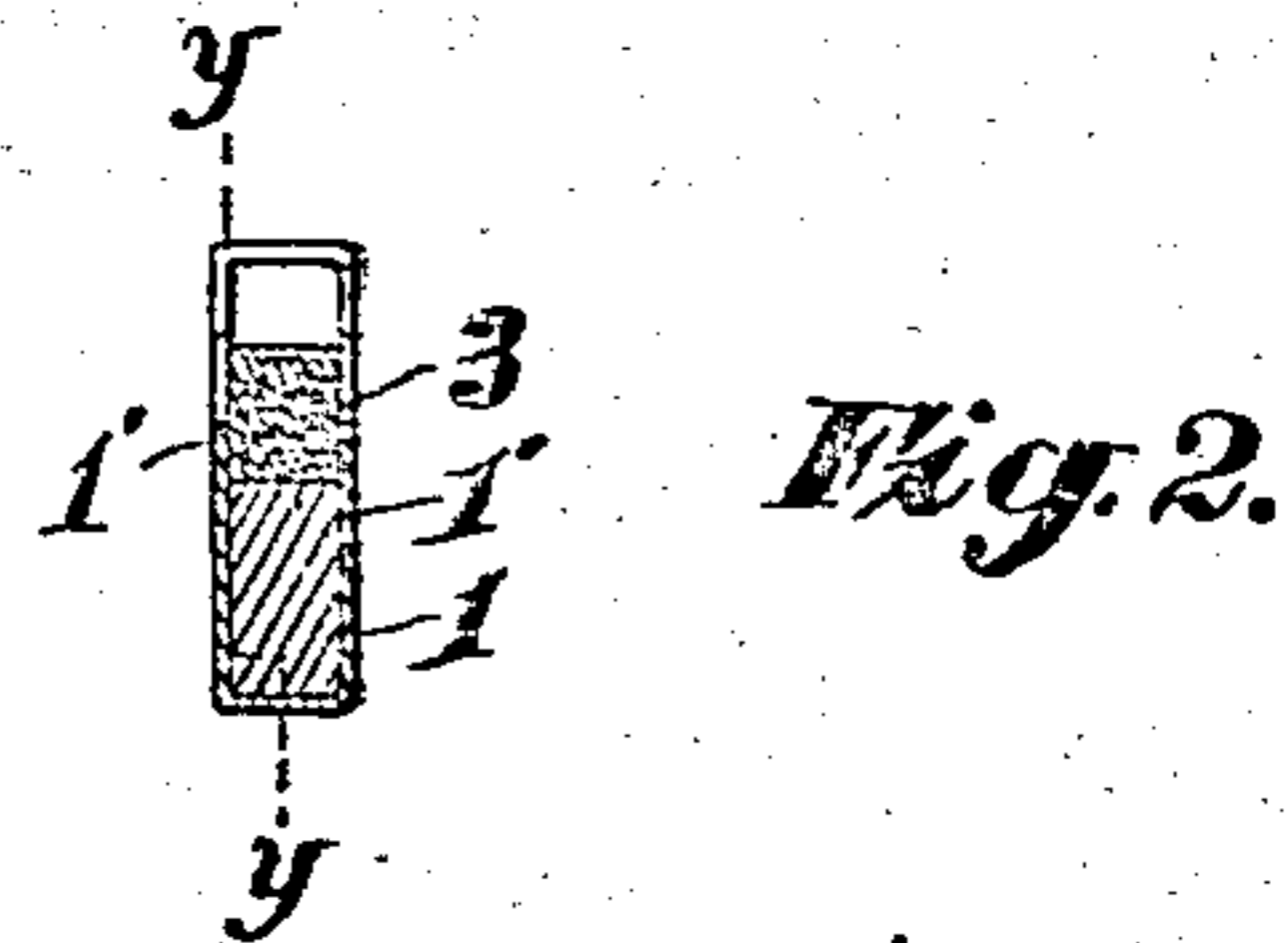
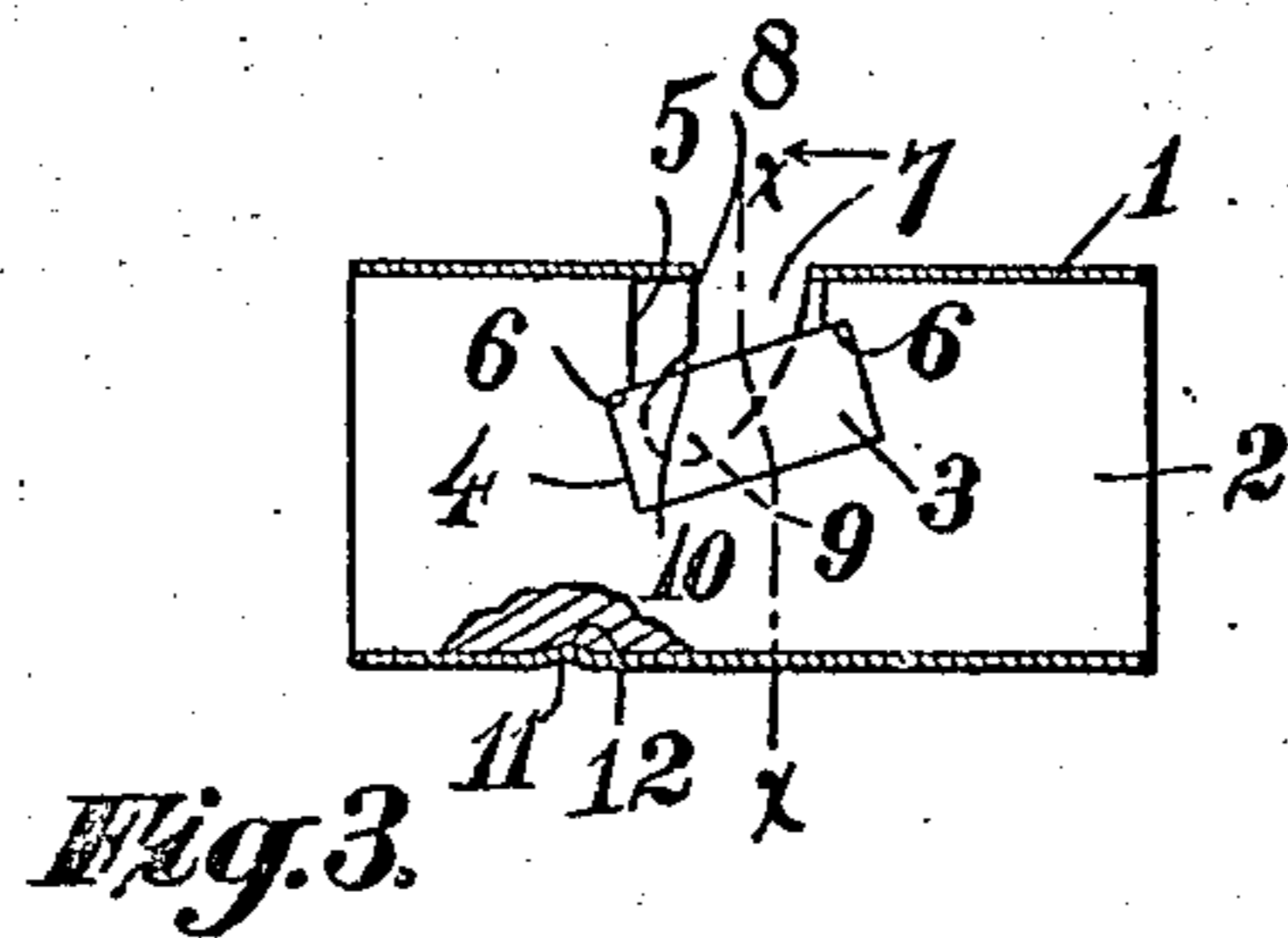


E. H. SPAFFORD.
SHEARS SHARPENER.

APPLICATION FILED DEC. 30, 1907.

899,140.

Patented Sept. 22, 1908.



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UNITED STATES PATENT OFFICE.

EDWIN H. SPAFFORD, OF OAK PARK, ILLINOIS.

SHEARS-SHARPENER.

No. 899,140.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed December 30, 1907. Serial No. 408,574.

To all whom it may concern:

Be it known that I, EDWIN H. SPAFFORD, a citizen of the United States, residing at Oak Park, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Shears-Sharpener, of which the following is a specification.

My invention relates to sharpening devices and particularly to sharpeners for shears.

10 The object of my invention is to provide a shears sharpener which shall be of simple construction, inexpensive and easily operated.

A further object of my invention is to provide a shears sharpener in which the sharpening element may be readily rearranged to present different portions of its surface in position for use, to the end that practically all of its sharpening surface may be utilized, and 20 in which the sharpening element may be readily replaced when too badly worn for further use, thereby prolonging the period of usefulness of the device.

Other objects will appear hereinafter.

25 My invention consists generally in a suitable casing, a member mounted in said casing and having an angularly disposed socket or recess and a sharpening element comprising a block of suitable material mounted in said 30 recess, said casing being suitably slotted to give access to the sharpening element.

My invention further consists in a device as mentioned, the several elements of which shall be so proportioned and arranged that 35 the sharpening element may be turned into various positions to present its several faces and portions of its faces into position for use.

My invention further consists in various details of construction and arrangements of 40 parts all as will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification 45 and in which,

Figure 1 is a side elevation of the device embodying my invention in its preferred form, Fig. 2 is a cross section on the line $x-x$ of Figs. 1 and 3. Fig. 3 is a longitudinal 50 section on the line $y-y$ of Fig. 2, Fig. 4 is a perspective view of the member for holding the sharpening element and Fig. 5 is a longitudinal section of a modified form of the device.

55 Referring to the drawings, 1 indicates the casing which comprises a rectangular mem-

ber preferably formed of sheet metal and open at the ends. Mounted in the casing, 1 is a member, 2 which is provided with a suitable socket to hold the sharpening element. 60 As shown in Figs. 1 to 4 respectively the member, 2 comprises a block, preferably of wood which fits snugly within the casing, 1. The block is inserted in the casing by being slid longitudinally thereinto, the ends of the 65 casing being open for this purpose, and is provided with an angularly disposed socket or recess to hold the sharpening element, 3. The element 3 is formed of any suitable material such as carborundum, and is in form a 70 parallelepiped having a square cross section. The block, 2 and the element 3 are of equal thickness and the said element is retained in the recess by the side walls, 1' of the casing. 4 indicates the recess. This is ar- 75 ranged at the same angle to the perpendicular as it is desired that the bevel on the blade of the shears shall be, and the element or member, 3 fits snugly therein. Extending from the recess, 4 to the upper edge of the 80 block is a slot, 5. This is narrower than the recess, forming the shoulders 6-6 to hold the member, 3 in place.

The casing, 1 is provided with a slot to receive the blade, A of the shears, and permit 85 the same to engage with the member, 3. The slot comprises the vertical portion, 7 having the vertical wall, 8, and the offset portion, 9. The wall, 8 does not extend quite to the upper face of the member 3, the 90 offset portion thereby forming a recess, 10. In sharpening the shears, a wire edge is formed upon the edge of the blade which may be removed after the blade is sharpened by closing the blades together several times. 95 It is to prevent interfering with or turning of the wire edge, that the offset portion, 9 or recess, 10 is provided, the side of the blade being held firmly against the vertical wall, 8 while being sharpened. To prevent acci- 100 dental displacement of the block, 2 within the member, 1 the latter is provided with a punch dent, 11, preferably in its lower wall and the block, 2 with a corresponding coact-

ing dent, 12. 105 In Fig. 5 I have illustrated a modified form of my device wherein a metal strip, 14, is bent into the form shown to replace the block, 2. The strip, 14 is of substantially the same width as the member, 3, and is shaped simi- 110 larly to the block, 2 for holding said member. The free ends of the strip are turned up-

wardly bearing against the portion which forms the bottom of the recess, 4, the portions, 15 of the strip thus forming spring members to retain the device within the casing.

To use the device, a blade of the shears is held firmly against the wall, 8 with the edge bearing against the sharpening member, 3, across which it is drawn several times. After the blades are sharpened the wire edge is removed in the manner before mentioned. When a portion of the member, 3 becomes too smooth or too much worn for further use, the member may be turned in the socket to present another of its faces in sharpening position. It is for this purpose that the member is made square in cross section so that each of the four faces may be used. When the four faces are worn at one end of the member, said member may be turned end for end and the four faces at the opposite end utilized, thus eight sharpening surfaces may be used with each member, 3. When the member is too badly worn for further use, it may be replaced by a new one. To turn or replace the member it is but necessary to withdraw the block 2 from the casing, change the position of the member in the recess and replace the block.

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

1. In a device of the class described, a suitable casing, in combination with a member mounted in said casing and having an angularly disposed recess therein, a sharpening element mounted in said recess and said casing being slotted to permit the blade of the shears to contact said sharpening element, substantially as described.

2. In a device of the class described, a casing, in combination with a member mounted in said casing and having an angularly disposed recess, therein, a sharpening element arranged in said recess and said casing having a slot extending downwardly beyond the upper surface of said sharpening element, the

lower portion of said slot being offset substantially as described.

3. In a device of the class described, a casing, comprising a rectangular member open at the ends, in combination with a member mounted in said casing and having an angularly disposed recess therein, a slot of less width than said recess extending therefrom to the edge of said member and a sharpening element mounted in said recess, said casing having a slot extending below the upper surface of said element, substantially as described.

4. In a device of the class described, a casing comprising a hollow rectangular member open at the ends, in combination with a member mounted in said casing and having an angularly disposed recess therein, a slot of less width than said recess extending therefrom to the edge of said member and a sharpening element mounted in said recess, said casing having a slot comprising a vertical portion extending from the upper edge thereof to a point above the upper surface of the sharpening element and an offset portion extending angularly therefrom to a point below said surface, substantially as described.

5. In a device of the class described, a hollow rectangular casing open at the ends, in combination with a member fitting snugly within said casing and having an angularly disposed recess and a slot of less width than said recess extending therefrom to the upper edge of said member and a sharpening element mounted in said recess, said element being square in cross section and of equal thickness with said member, said casing having a slot extending from its upper edge to a point below the upper surface of said element, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWIN H. SPAFFORD.

Witnesses:

FRANCES E. SHEEHY,
HOWARD S. AUSTIN.