

(No Model.)

R. S. PEARSALL.
SHEARS.

No. 440,436.

Patented Nov. 11, 1890.

Fig. 1.

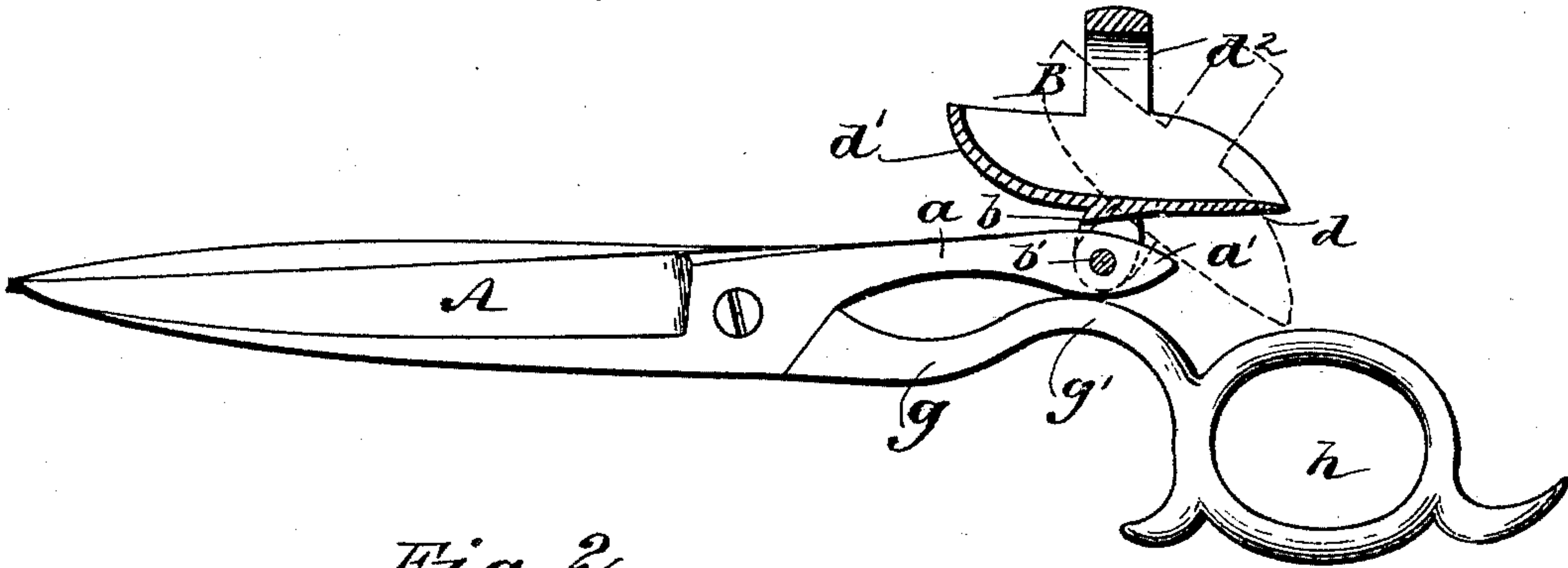


Fig. 2.

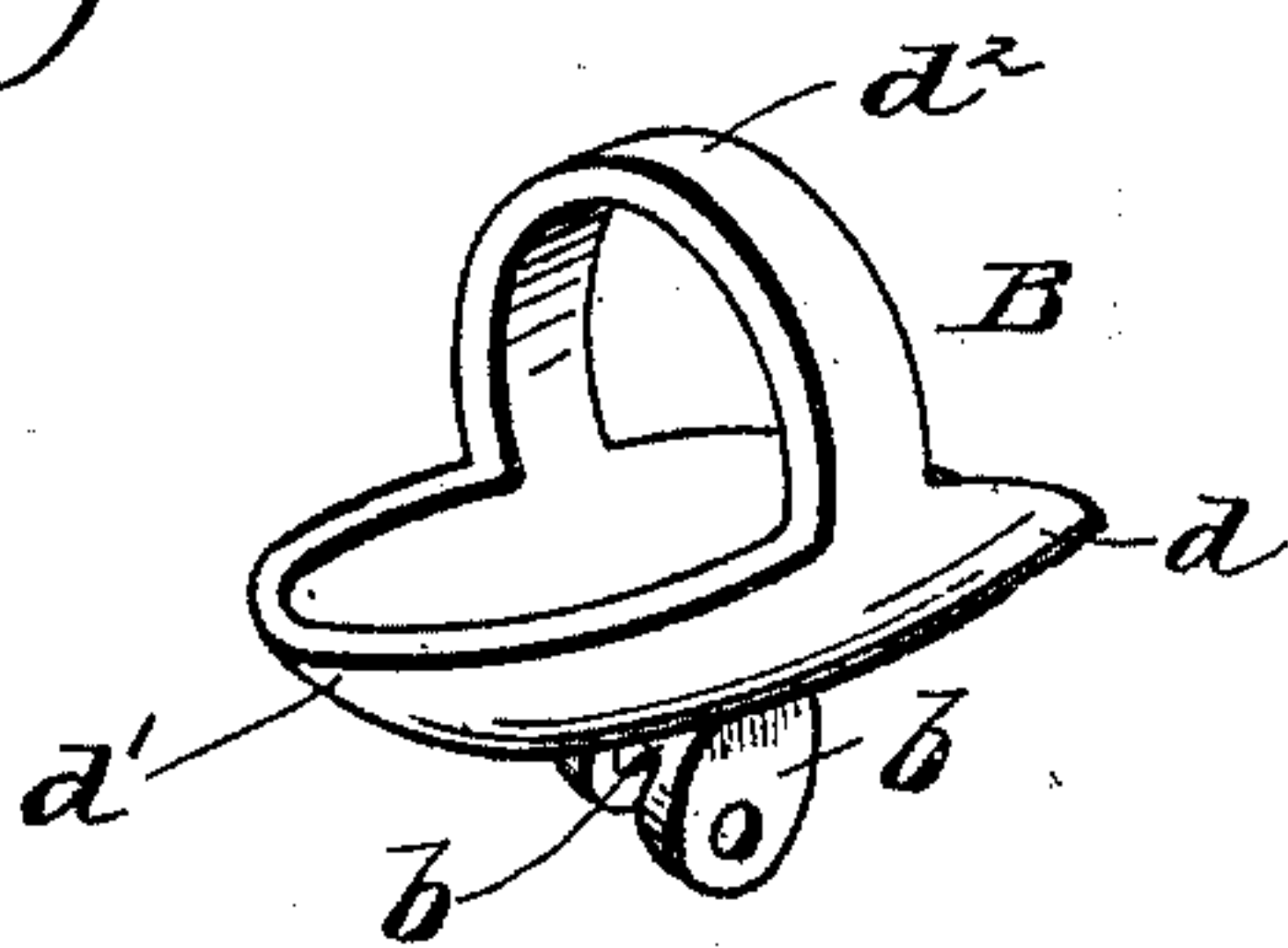


Fig. 3.

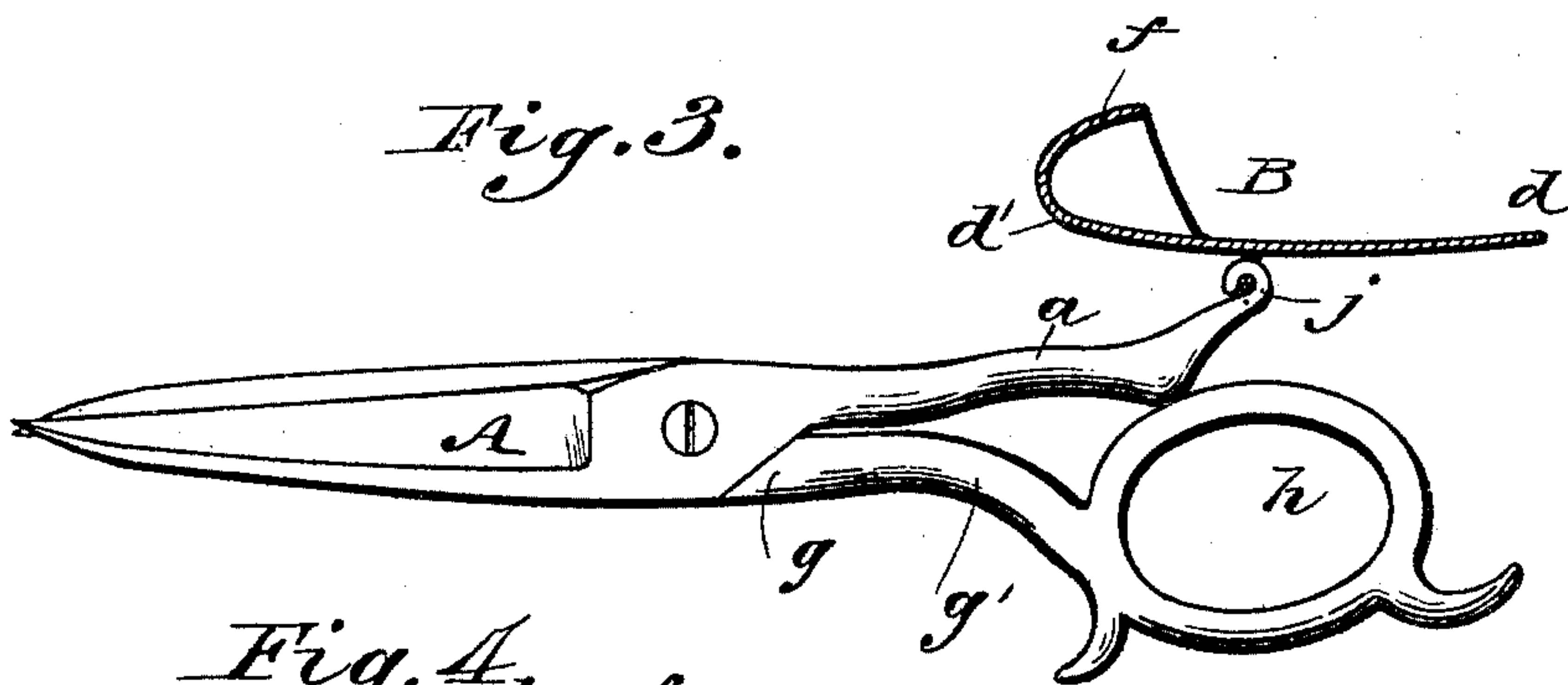
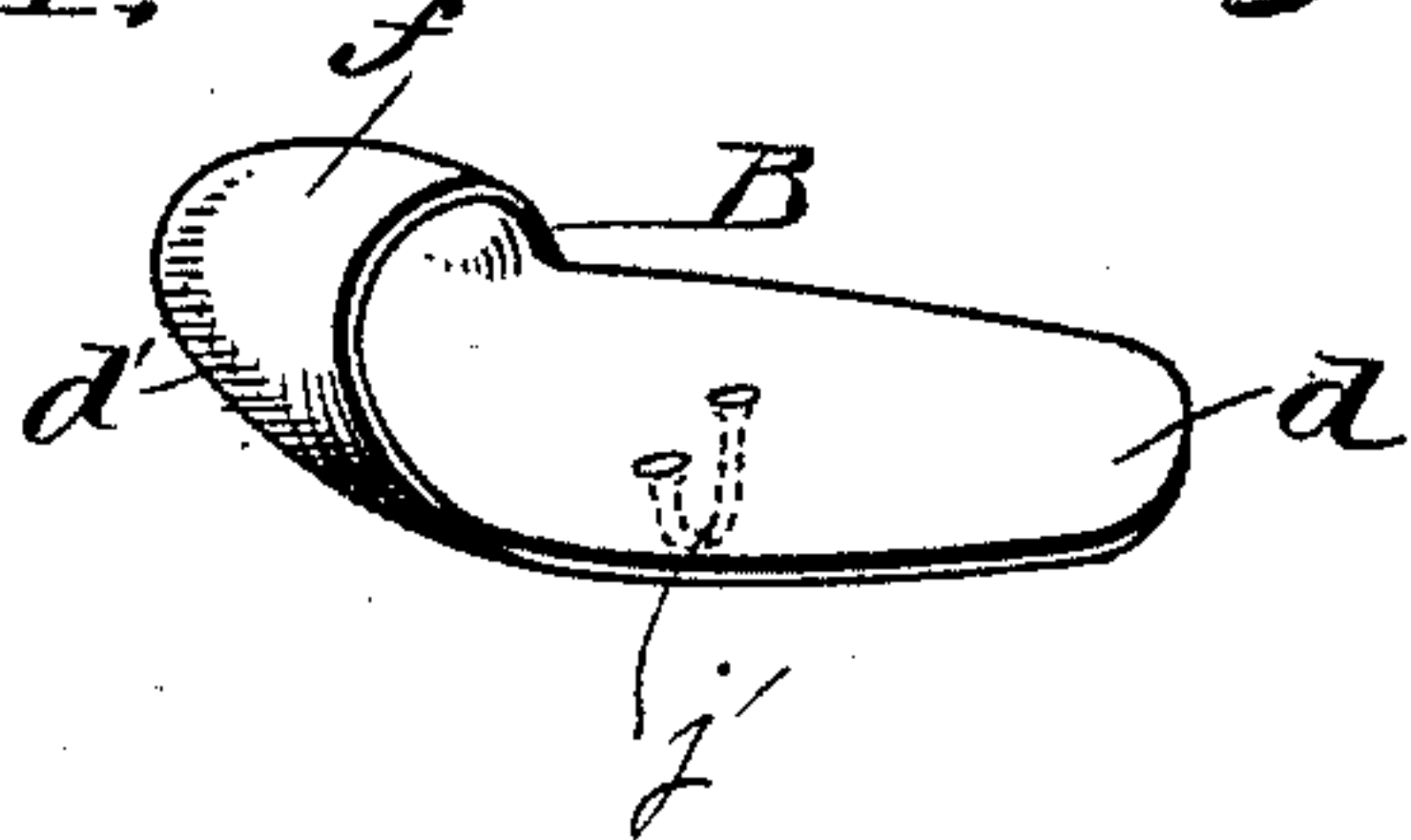


Fig. 4.



WITNESSES:

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RICHARD S. PEARSALL, OF SEA CLIFF, NEW YORK.

SHEARS.

SPECIFICATION forming part of Letters Patent No. 440,436, dated November 11, 1890.

Application filed August 28, 1890. Serial No. 363,308. (No model.)

To all whom it may concern:

Be it known that I, RICHARD S. PEARSALL, of Sea Cliff, in the county of Queens and State of New York, have invented a new and useful Improvement in Shears, of which the following is a full, clear, and exact description.

My invention relates to certain improvements in shears of the class shown and described in Letters Patent No. 430,677, granted to me June 24, 1890; and my present invention consists, principally, in hinging the thumb support or clip at the end or approximately at the end of the shank of the blade, so that the clip will be practically unsupported back of the hinge and free to drop back to a reverse angle to accommodate itself to the ball of the thumb when in a natural position, thus obviating strain upon the thumb-joint in the use of the shears.

The invention also consists in extending the thumb-support in front of the hinge and in curving the shank of the lower blade upward in front of its edge to furnish room and a better grip for the front finger of the user.

The invention further consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of a pair of shears made in accordance with my invention. Fig. 2 is a perspective view of the thumb-ring. Fig. 3 is a sectional elevation of a modification, and Fig. 4 is a perspective view of the thumb-support.

To the end of the shank *a* of the lower blade A is hinged the thumb support or clip B, which is adapted to tilt back to the position shown in dotted lines in Fig. 1—that is to say, the end of the shank is cut off or beveled at *a'*, so as not to act as a support to the thumb-clip, as shown in Fig. 1; or, instead of this, the clip may be hinged directly to the end of the shank, as in Fig. 3, or the hinge-lugs *b b* in Fig. 1 may be made of such length relatively to the length of the shank in rear of

the hinge-pin *b'* that the clip may drop back to the angle indicated in dotted lines, which adapts the lower surface of the clip to fit the ball of the thumb when held in a natural position while in the act of cutting with the shears. The thumb-clip is extended in rear of the hinge, as shown at *d*, and also in front of the hinge, as shown at *d'*, and about midway of its length is formed, Figs. 1 and 2, the ring *d²* to fit over the top of the thumb. In Figs. 3 and 4 the ring as such is omitted, but instead thereof is formed at the front of the clip the cover *f* to receive the end of the thumb. By extending the clip in front of the hinge, as at *d'*, a perfect support is produced and the thumb is prevented from slipping too far through the clip. The shank *g* of the upper blade is curved upward at *g'* in front of the eye *h* to furnish ample room for the forefinger in the use of the shears.

In Figs. 3 and 4 the end of the shank *a* is turned to form an eye *j* to receive the ring *j'* at the bottom of the clip to form the hinge; but I prefer the form of hinge shown in Figs. 1 and 2, though more expensive.

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

1. As an improvement in shears, the shank of the lower blade of the shears having hinged at the end or near the end thereof a thumb-clip which is adapted to tilt back to an approximately unlimited extent, substantially as described.

2. The thumb-clip hinged at its center to the rear extremity of the shank of the lower blade to tilt back toward the finger eye or loop of the other shank, and formed with the rear extension *d*, front projection *d'*, and ring *d²*, substantially as described.

3. The shank *a* of the lower blade, in combination with the clip B, hinged at its center to the shank and formed at the front with the cup *f*, substantially as described.

RICHARD S. PEARSALL.

Witnesses:

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E. M. CLARK.