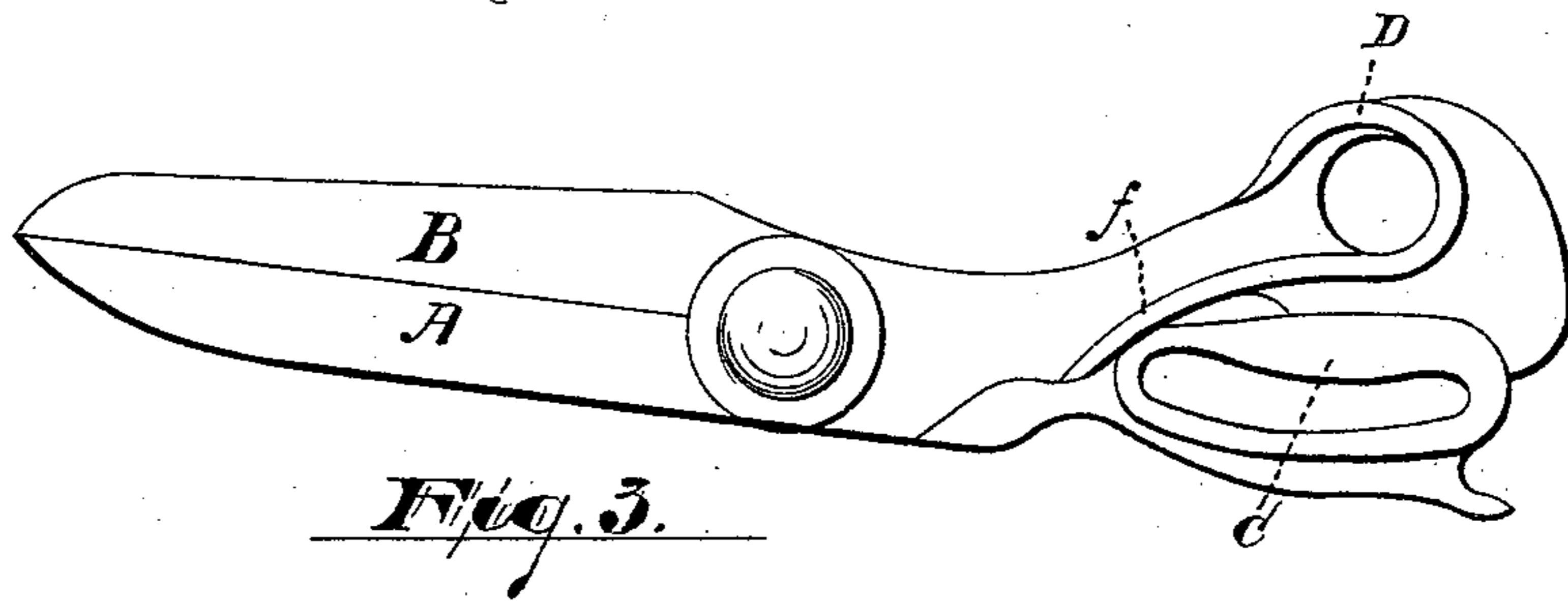
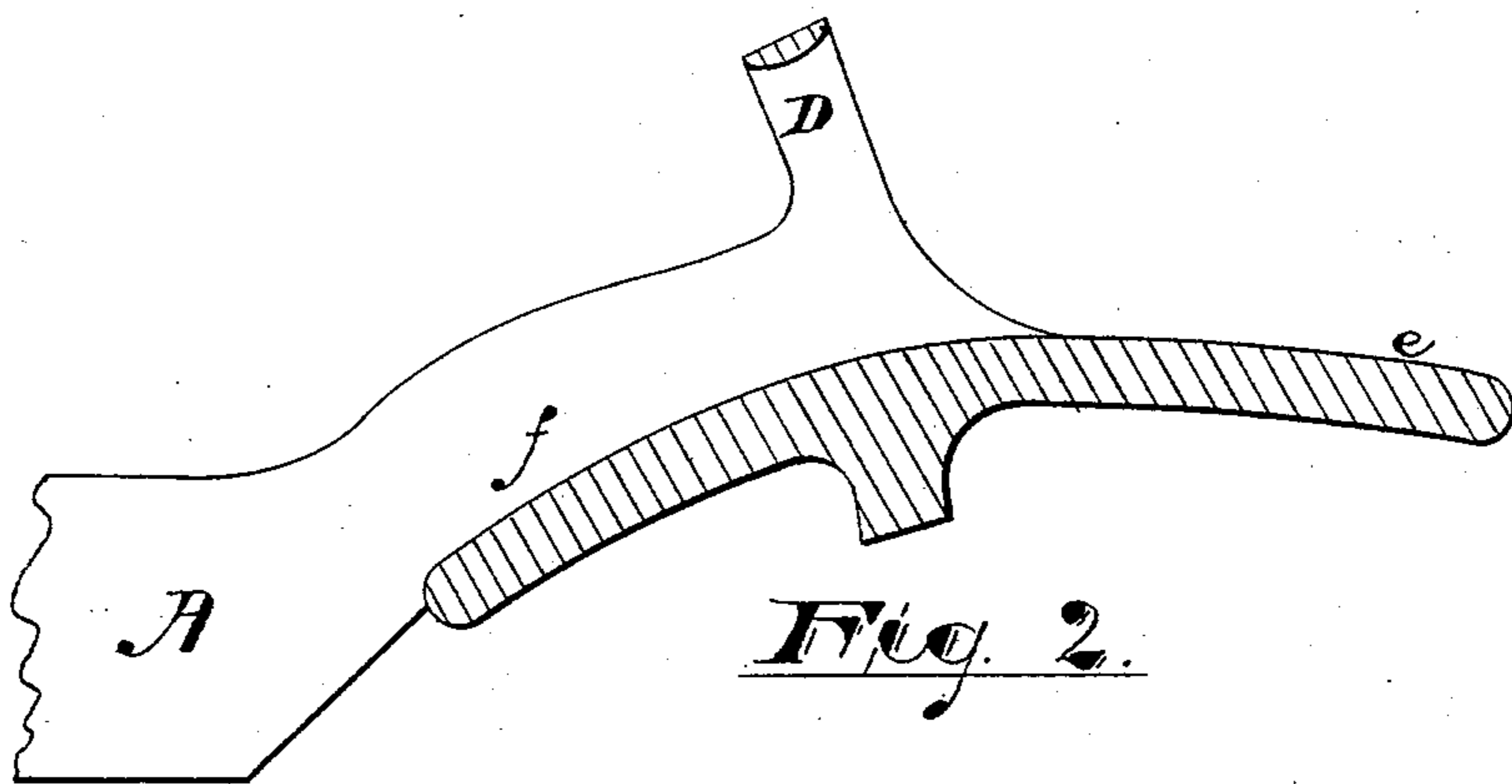
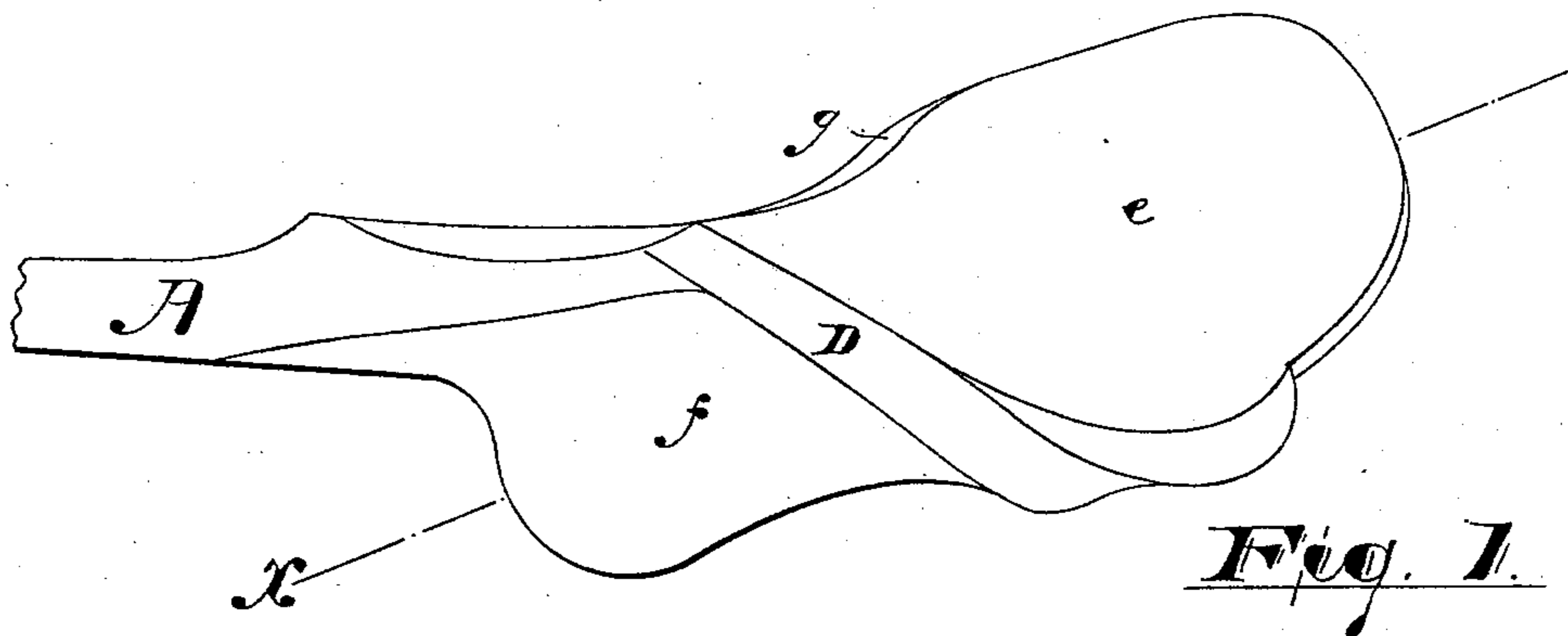


(No Model.)

H. C. HEINISCH.
SHEARS.

No. 454,735.

Patented June 23, 1891.



Witnesses

Inventor:

Oscar A. Michel
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UNITED STATES PATENT OFFICE.

HENRY C. HEINISCH, OF IRVINGTON, NEW JERSEY.

SHEARS.

SPECIFICATION forming part of Letters Patent No. 454,735, dated June 23, 1891.

Application filed March 23, 1891. Serial No. 386,164. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. HEINISCH, a citizen of the United States, residing at Irvington, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Shears; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to secure as much lever-power as possible in operating a pair of shears, and at the same time to secure ease and comfort to the operator.

The invention consists, mainly, in providing a bearing or rest for the outer portion of the hand, so that as the weight of the body is thrown upon the handle the whole palm of the hand is brought into requisition to support the weight of the body instead of only a part of the hand—to wit, the ball of the thumb—as heretofore. In the latter case in very heavy cutting with ordinary shears the cutter is compelled to frequently cease cutting in order to rest his hand; not only so, but the hand sometimes becomes lame or disabled in consequence of the severity of the strain brought upon it, or rather upon the portion of it referred to.

Referring to the accompanying drawings, in which similar letters of reference indicate corresponding parts in each of the several figures where they occur, Figure 1 represents a top plan view of the upper handle of a pair of shears, illustrating my improvement. Fig. 2 is a section taken through line *x* of the same, and Fig. 3 represents a side elevation of my improved shears.

In said drawings, A, Fig. 3, indicates the lower blade, and B the upper blade.

C indicates the lower handle, and D the up-

perhandle, the construction of which is shown more clearly in Figs. 1 and 2.

The invention relates particularly to the construction of said upper handle; and it consists in providing the same with a broad outwardly and rearwardly extending seat or rest *e*, which extends to the outside of the palm of the hand, and upon which the said portion of the hand rests when the shears are being used, so that when used in connection with the ordinary extension *f*, upon which the thumb and the ball of the thumb rest, the whole breadth or palm of the hand is utilized to sustain the weight of the body when operating the shears in cutting very heavy cloth or a number of pieces of cloth superposed upon one another, as is frequently the case in cutting garments.

A recess or inward curve *g* is formed upon the right-hand side of the handle, thereby removing all obstruction to the closing of the fingers around the lower handle, as will be understood.

Having thus described my invention, what I claim, and wish to secure by Letters Patent of the United States, is—

1. The improved shears herein described, in which the upper handle is provided with the outwardly and rearwardly extending seat or rest to support the outer portion of the hand, as described, and for the purposes set forth.

2. In shears of the character described, the combination, with the upper handle thereof, of the support *f*, the outwardly and rearwardly extending seat or rest *e*, and the recess *g*, as described, and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of March, 1891.

H. C. HEINISCH.

Witnesses:

OLIVER DRAKE,
OSCAR A. MICHEL.