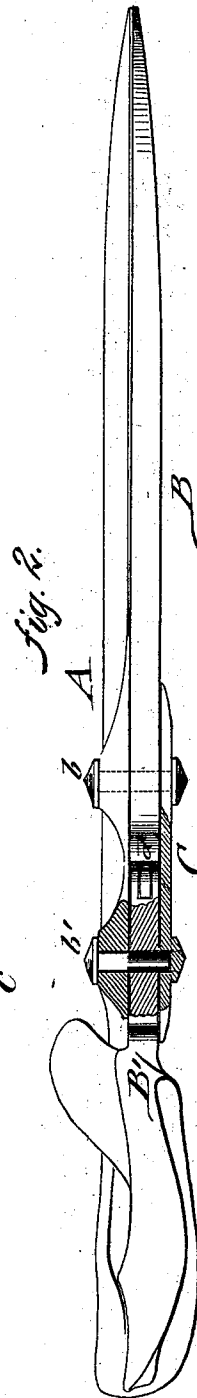
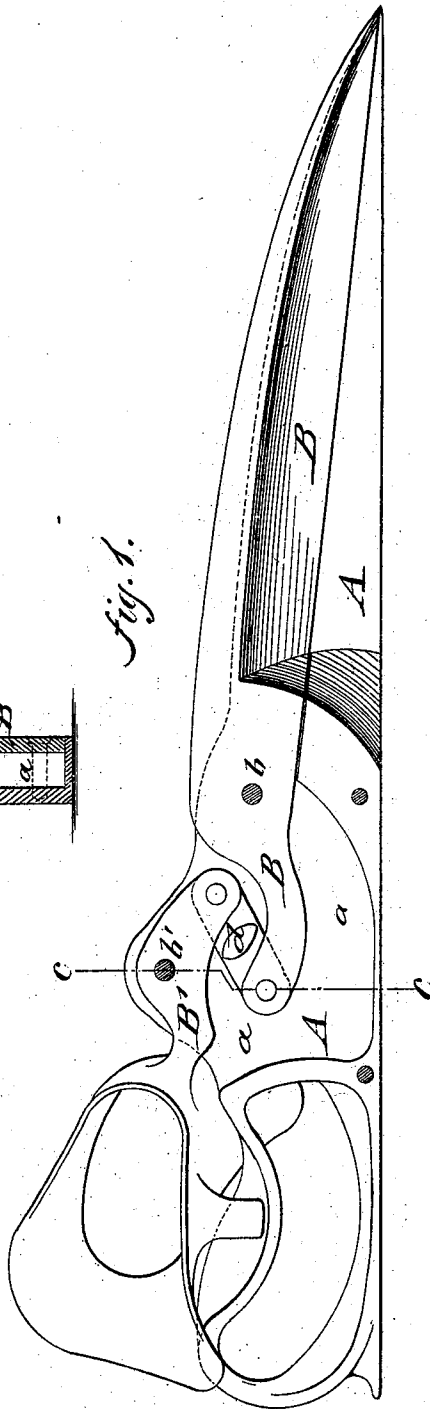
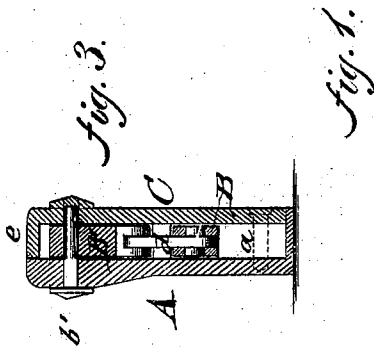


T. HUMPHRIES.

SHEARS.

No. 173,010.

Patented Feb. 1, 1876.



WITNESSES:
Gustave Dietrich
A. J. Toney

INVENTOR:
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UNITED STATES PATENT OFFICE.

THOMAS HUMPHRIES, OF EASTON, PENNSYLVANIA.

IMPROVEMENT IN SHEARS.

Specification forming part of Letters Patent No. **173,010**, dated February 1, 1876; application filed October 3, 1874.

To all whom it may concern:

Be it known that I, THOMAS HUMPHRIES, of Easton, in the county of Northampton and State of Pennsylvania, have invented a new and useful Improvement in Shears, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation of my improved shears with cap-piece taken off. Fig. 2 is a top view, and Fig. 3 a vertical transverse section, of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claims.

In the drawing, A represents the stationary blade; B, the cutting-blade, pivoted thereto, which are both operated by sleeve-shaped handles for fingers and thumb, used in tailors' shears. The stationary blade A has a straight and broad base, on which the shears rest in upright position during use, and slide readily on the cutting-table. The side part of blade A in front of the handle is provided with a recess, *a*, that extends nearly down to the base, forming a bottom concavity therewith. The cutting-blade B is pivoted to the side of stationary blade at *b*, and connected with its arm back of pivot *b* by an intermediate pivoted link-joint, *d*, with the front arm of the separate handle-piece B', which swings on the rear pivot-pin *b'*, so as to exert, by its opening and closing, a double lever action on the cutting-blade without a change in the position of the stationary blade A. The cutting-strokes of blade B are produced by the double pivot and link-joint with little effort to the muscles

of the hand, and with considerable power. The stationary blade moves along the table without disarranging the material to be cut, while the cutting-blade may be worked with great rapidity, and without any lifting of the shears, the whole power of the muscles being thereby transferred to the upper blade, without producing bunions or hard lumps at the thumb by keeping the shears in raised position. A cap-plate, C, with top flange *e* fits closely over the side recess of the stationary blade, incasing thereby the lever-joint, so that no dust can enter, and preventing also the oil used for lubricating to pass to the blades and to the cloth, as it will collect in the concave bottom part of the recess. The cap plate is attached, by the pivot-pins with suitable brass heads, and by separate fastening-screws, to the stationary blade, and forms with the blades very nice looking, compact, and powerful shears.

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

1. In a tailor's shears, the link, in combination with the movable blade B and the handle-lever B', and to which they are jointed, as and for the purpose herein set forth.

2. The combination, with a tailor's shears, constructed substantially as herein set forth, of a close oil-chamber cavity, *a*, formed in the fixed blade, to receive and confine the lubricating material for the joints of the shears.

THOMAS HUMPHRIES.

Witnesses:

JACOB D. SEIPEL,
LORENZO D. WILSON.