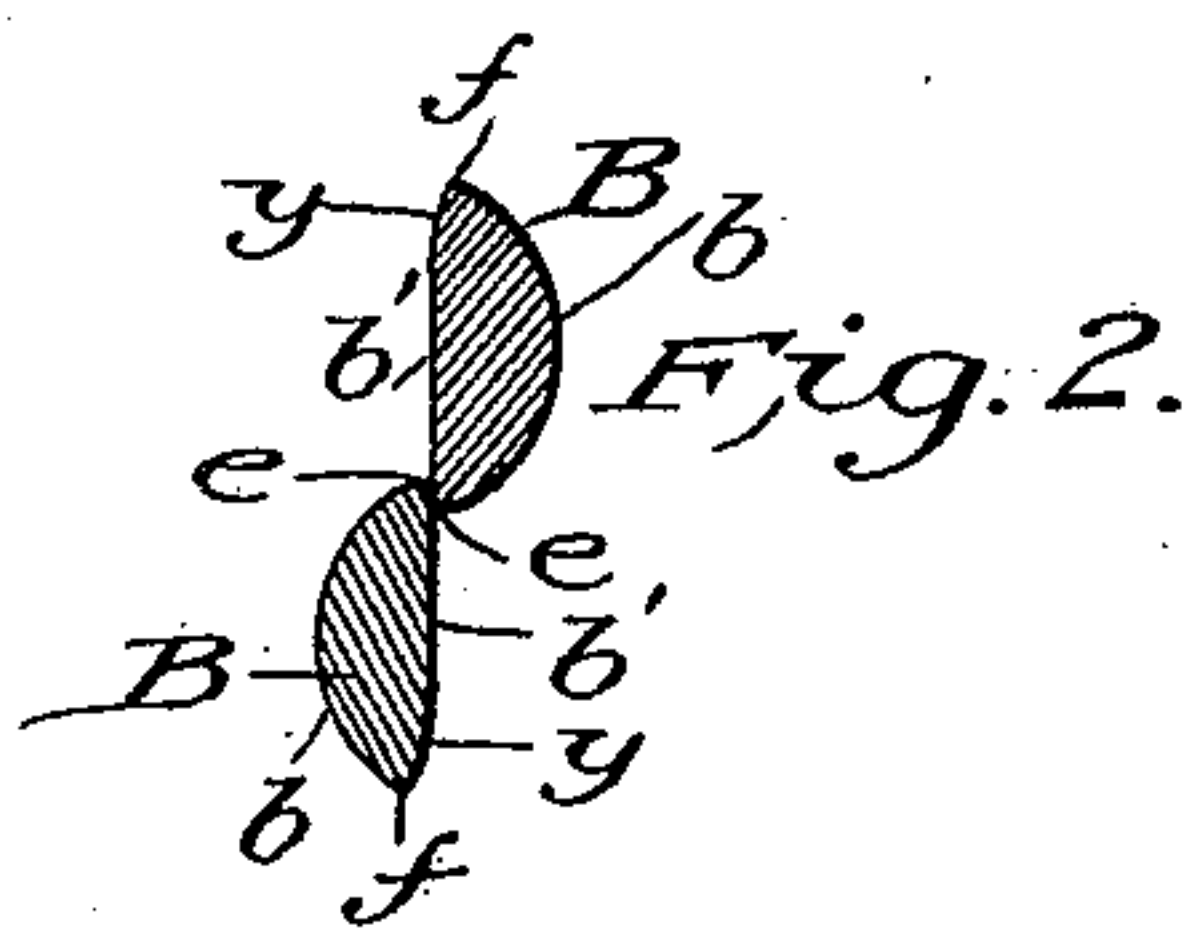
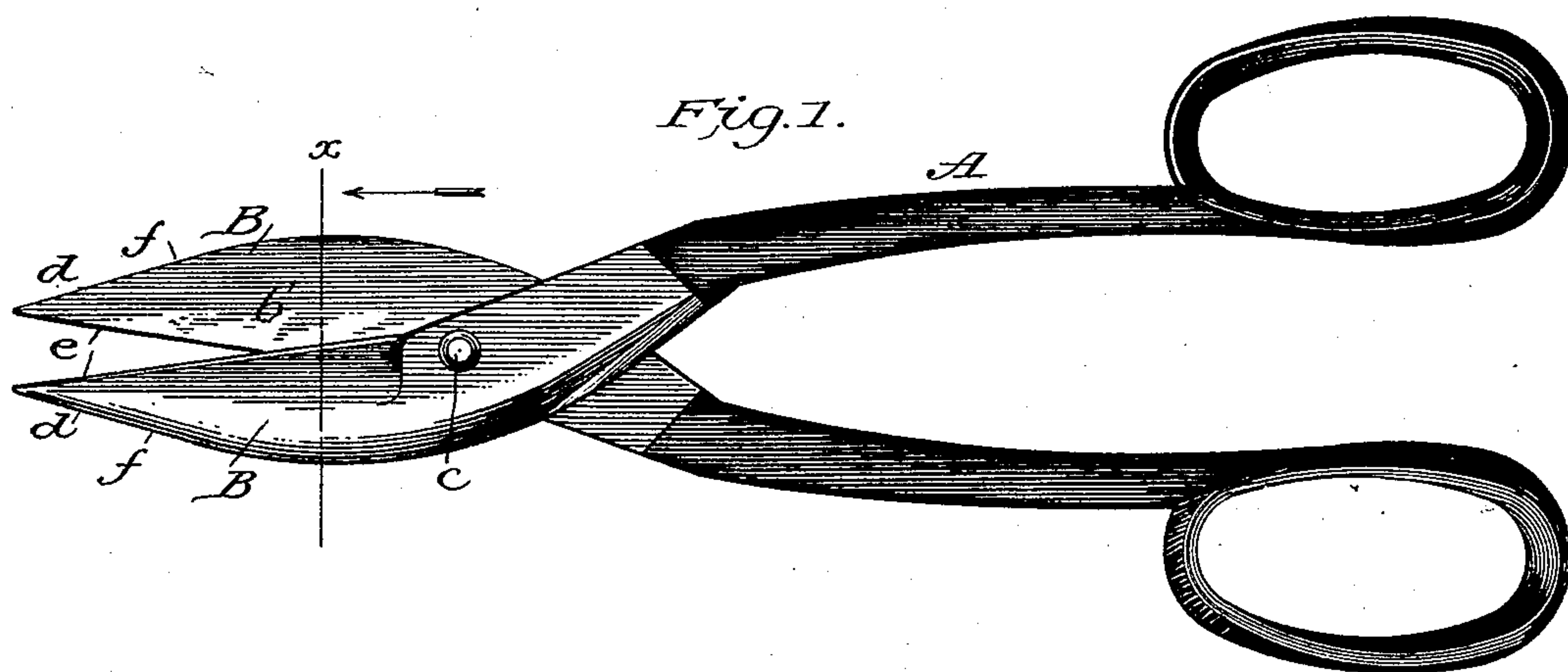


(No Model.)

O. P. LYON.
SHEARS OR SNIPS.

No. 539,525.

Patented May 21, 1895.



Witnesses.

Chas. H. Baker,

D. W. Edlin

Inventor.

O. P. Lyon

UNITED STATES PATENT OFFICE.

OLIVER P. LYON, OF BALTIMORE, MARYLAND.

SHEARS OR SNIPS.

SPECIFICATION forming part of Letters Patent No. 539,525, dated May 21, 1895.

Application filed November 9, 1894. Serial No. 528,357. (No model.)

To all whom it may concern:

Be it known that I, OLIVER P. LYON, a citizen of the United States, residing at the city of Baltimore, State of Maryland, have invented certain new and useful Improvements in Shears or Snips; 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.

My invention is directed more particularly to that class of shearing implements designed for cutting sheet metal or the like, and which are technically known as "snips." Previous to my invention, the employment of these implements in making irregular cuts in the metal, as in circular or scroll work, has been attended with great difficulties owing to the inability to readily follow a sinuous line, and owing to the burr which is formed on each side of the cut; and furthermore in the implement as ordinarily constructed it is impossible by reason of its blunt ends to make a finished or clean cut in corners of the metal which are usually formed by angular bends therein.

It is the object of my invention to produce an implement of this character, by which all of these difficulties are effectually overcome; and to this end my invention consists in providing each of the blades of the implement with a convex back, and in curving the outer side of the front; and also in tapering the blade from the fulcrum to the toe, which latter is left sharply pointed.

I will now describe in detail my improved implement, and in connection with this description attention is called to the accompanying drawings which form a part of this specification, and in which—

Figure 1 is a side elevation of the implement, and Fig. 2 is an enlarged cross-sectional view taken on line $x x$ of Fig. 1.

Referring to the said drawings by letter A, A, denote the handles of the implement.

B, B, are the blades, and c is the pivot or fulcrum. From this pivot or fulcrum point each blade is tapered gradually to the toe d which latter is sharply pointed to facilitate the entrance of the toe within the edge of the metal, and to enable the toes to enter and make a clean finished cut in corners of the metal formed for instance by an angular bend in the metal or an angular joint made between two pieces of metal. The back b of each of the blades is convex in shape, the curve being preferably circular and extending from the cutting edge e to the outer edge f . The front or face b' of the blade is straight to a point designated by the letter y , and from this point to the outer edge f the blade is made convex as shown. By reason of these convex surfaces the blades are permitted to readily follow any line whether continuous, irregular or sinuous, and to make the cut clean and free from burrs or fractured edges. The edges of the cut moreover are raised or depressed to such an extent only as will permit them to readily spring back in place thereby obviating the heretofore necessity of hammering or pressing the metal into its normal place.

The invention is such that the implements may be produced at a low cost, and the parts being of the usual number there is no liability to disorder.

I claim as my invention—

A shearing implement having its blades tapered from the fulcrum point and terminating in sharp toes, and formed with a convex back, and a front or face convex at its outer side substantially as and for the purpose set forth.

OLIVER P. LYON.

Witnesses:

THOS. M. DOBBIN,
GEO. W. WARD.