No. 607,839. Patented July 26, 1898.

G. W. ELLIOTT.

SCISSORS OR SHEARS.

(Application filed Dec. 7, 1897.)

(No Model.)

Fig. 1.

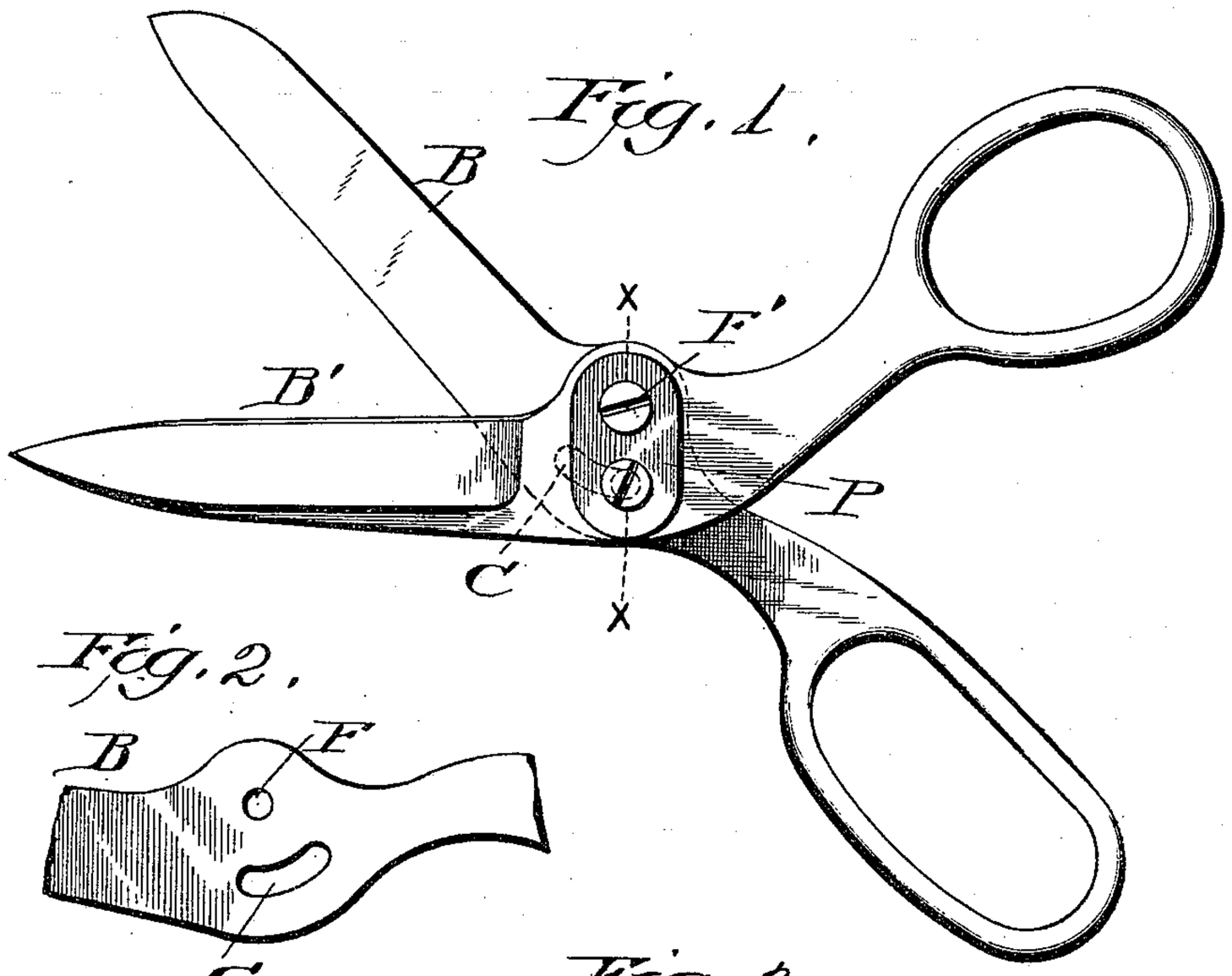
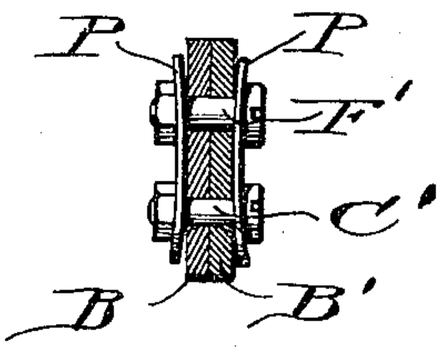


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE WILLIAM ELLIOTT, OF DRONFIELD, ENGLAND.

SCISSORS OR SHEARS.

SPECIFICATION forming part of Letters Patent No. 607,839, dated July 26, 1898.

Application filed December 7, 1897. Serial No. 661,066. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WILLIAM ELLIOTT, a citizen of Great Britain, residing at Coal Aston, Dronfield, in the county of Derby, England, have invented certain new and useful Improvements in Scissors or 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.

This invention relates to scissors which are hung for a shearing cut; and it consists in the construction and combination of parts hereinafter set forth and claimed.

In the accompanying drawings, Figure 1 represents a side elevation of an open pair of scissors embodying my invention. Fig. 2 represents a detail view of a part of the slotted blade; and Fig. 3 represents a vertical cross-section through the scissors close to the bolts, which are shown with the spring-plates in elevation.

The back or upper blade B is forged or formed with an enlargement on its upper edge for the purpose hereinafter referred to. The lower blade B′ is likewise formed with a corresponding projection above its cutting edge. These projections may be to any desired extent. They are made for the purpose of receiving the pivot-holes F for joint-pin or pivot-pin F′ of the scissors, the said pivot being fitted above the line of the cutting edge of the lower blade B′ and approximately in a line with the back edge of upper blade B, the said formation and position resulting in a compound swinging or sliding action of the blades in addition to the ordinary radial action of centrally-pivoted blades. The shanks and bows of the scissors may be bent, fashioned, and formed in any convenient or desired manner. I also cut in one of the blades a slot C, radial to the pivot, and a plain hole in the other blade. Through both blades I put a pivot-bolt C′ for the purpose of securing thereto a pair of spring side plates P. The pivot-pin F′ is also carried through the side plates. The pressure exercised through these spring-plates effectually neutralizes any tendency to separation of the blades when cutting thick or hard materials.

What I claim as my invention, and desire to secure by Letters Patent, is—

The scissor-blade B, provided with a curved slot C, in combination with the scissor-blade B′, the spring-plates, P, on opposite sides of the scissors and the two bolts F′, C′, both of which pass through the said plates and the said blades, the bolt, F′, serving as a pivot above the center of the scissors and the bolt C′ being received in the slot C and acting as a guide-pin, the said blades being provided with handles and constituting with said plates and bolts a complete pair of scissors substantially as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

GEORGE WILLIAM ELLIOTT.

Witnesses:

FRANK M. CLARK,

ISAAC BECK.