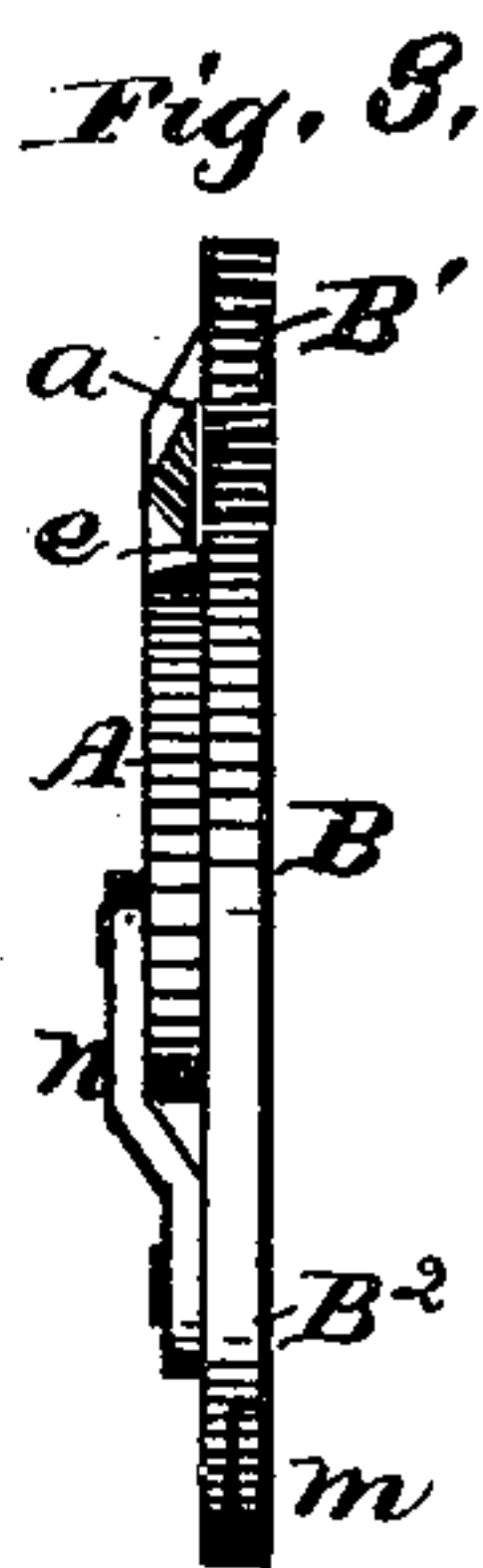
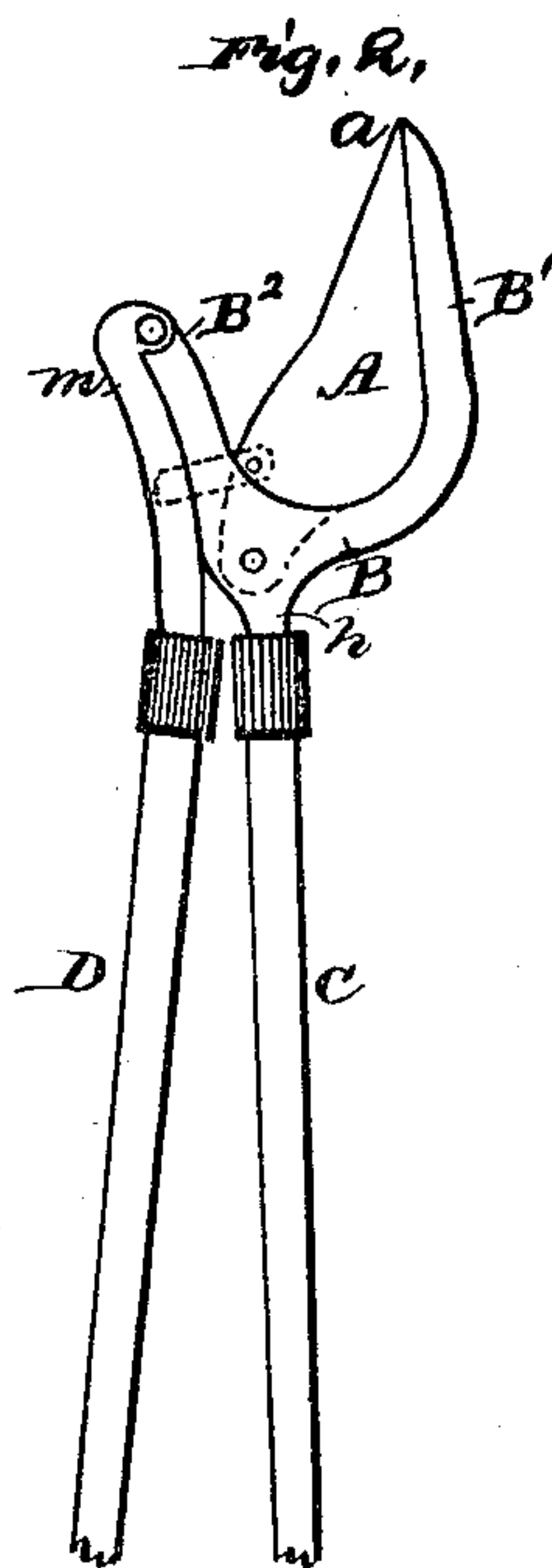
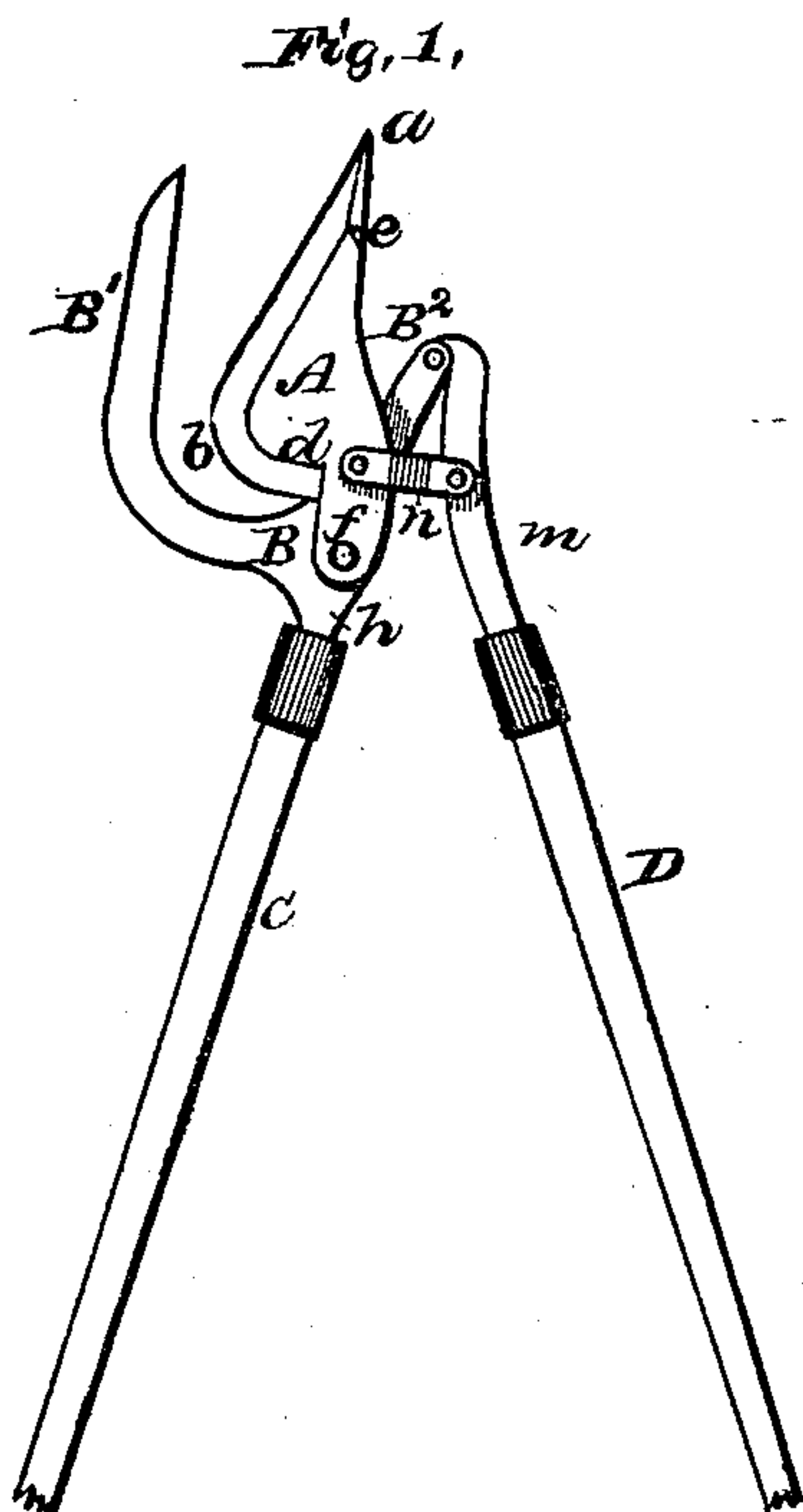


J. S. KETTERMAN.
PRUNING SHEARS.

No. 179,480.

Patented July 4, 1876.



WITNESSES:

Jas. F. Duhamel,
Thomas. Byrne,

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UNITED STATES PATENT OFFICE.

JOHN S. KETTERMAN, OF SHANNON, ILLINOIS.

IMPROVEMENT IN PRUNING-SHEARS.

Specification forming part of Letters Patent No. **179,480**, dated July 4, 1876; application filed March 30, 1876.

To all whom it may concern:

Be it known that I, J. S. KETTERMAN, of Shannon, in the county of Carroll and State of Illinois, have invented certain new and useful Improvements in Pruning-Shears, of which the following is a specification:

My invention consists in the novel arrangement and combination of peculiarly-shaped cutting-blades, connecting-link, and handles of pruning-shears, as will hereinafter be more fully described and definitely claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of my pruning-shears, showing the same open. Fig. 2 is a view of the opposite side, showing the same. Fig. 3 is a plan view of the shears.

A represents the cutting-blade, made nearly in triangular form, with the cutting-edge extending from the upper point *a* along the inner side, around the rounded corner *b*, and along the lower side of the blade to the point *d*, as shown. At the point *a* the rear edge or side of the blade is formed with a back cutting-edge to the point *e*. At the rear corner of the blade A is a projecting arm, *f*, which is pivoted to the bottom on one side of a nearly U-shaped plate. The bottom or rounded part of this plate is marked B, and the two arms, respectively, B¹ and B². The inner edges of the arm B¹ and base B are beveled for the

cutting-blade A to work against. On a line with the arm B² projects a shank, *h*, below the plate, which shank is securely fastened in a long handle, C. D is a similar handle, provided at its upper end with a shank, *m*, which is pivoted to the end of the arm B², and, by a link, *n*, connected with the blade A at the top of the arm *f* thereof.

In operation it will be seen that a powerful leverage is exerted on the blade A, so that the operator can easily cut off ordinary-sized branches, as well as smaller twigs, and the branch to be cut off rests in the rounded portion of the plate B while the blade A cuts it.

The point *a* having a back cutting-edge on the back of the cutting-blade, it may be used, when the shears are closed, as a knife when desired.

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

The combination of the triangular cutting-blade A, having cutting-edges *a b d* and back cutting-edge from *a* to *e*, the U-shaped plate B B¹ B², with handle C, the handle D, and shank *m*, with connecting-link *n*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

J. S. KETTERMAN.

Witnesses:

JOHN KETTERMAN,
HENRY BOWEN.