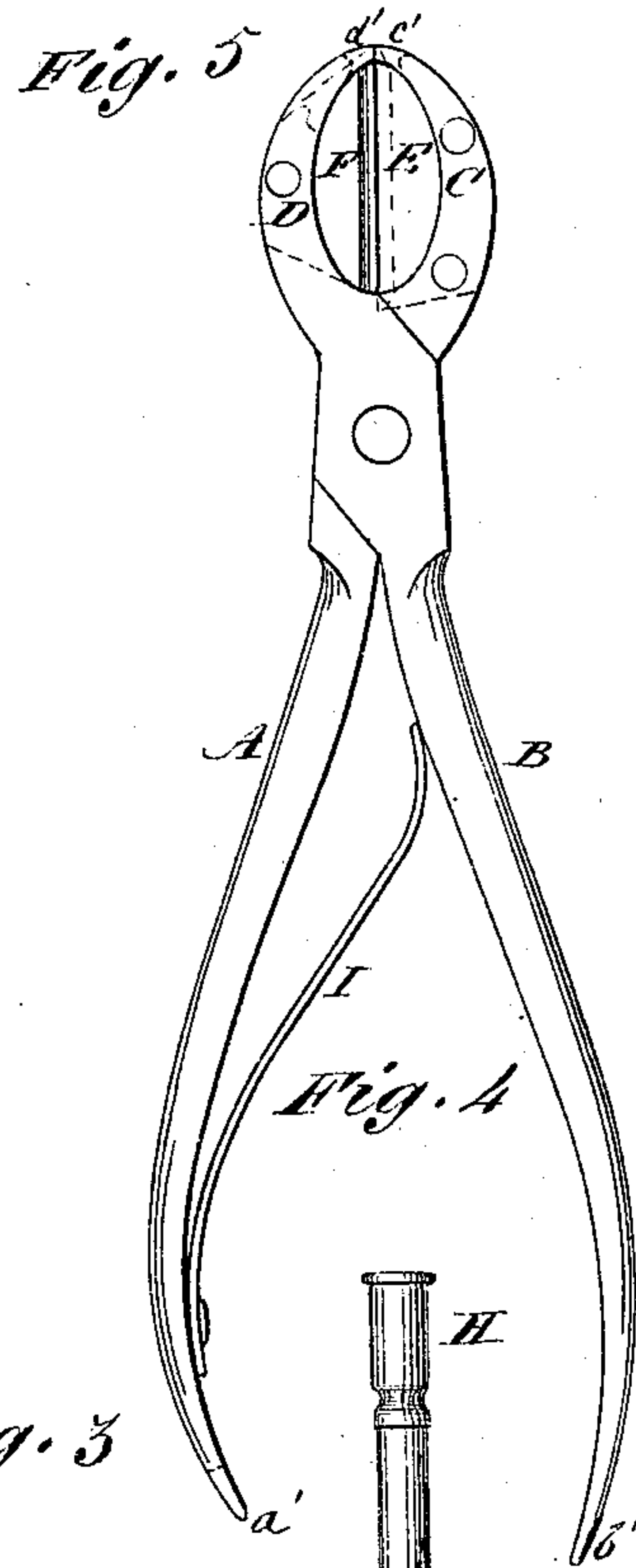
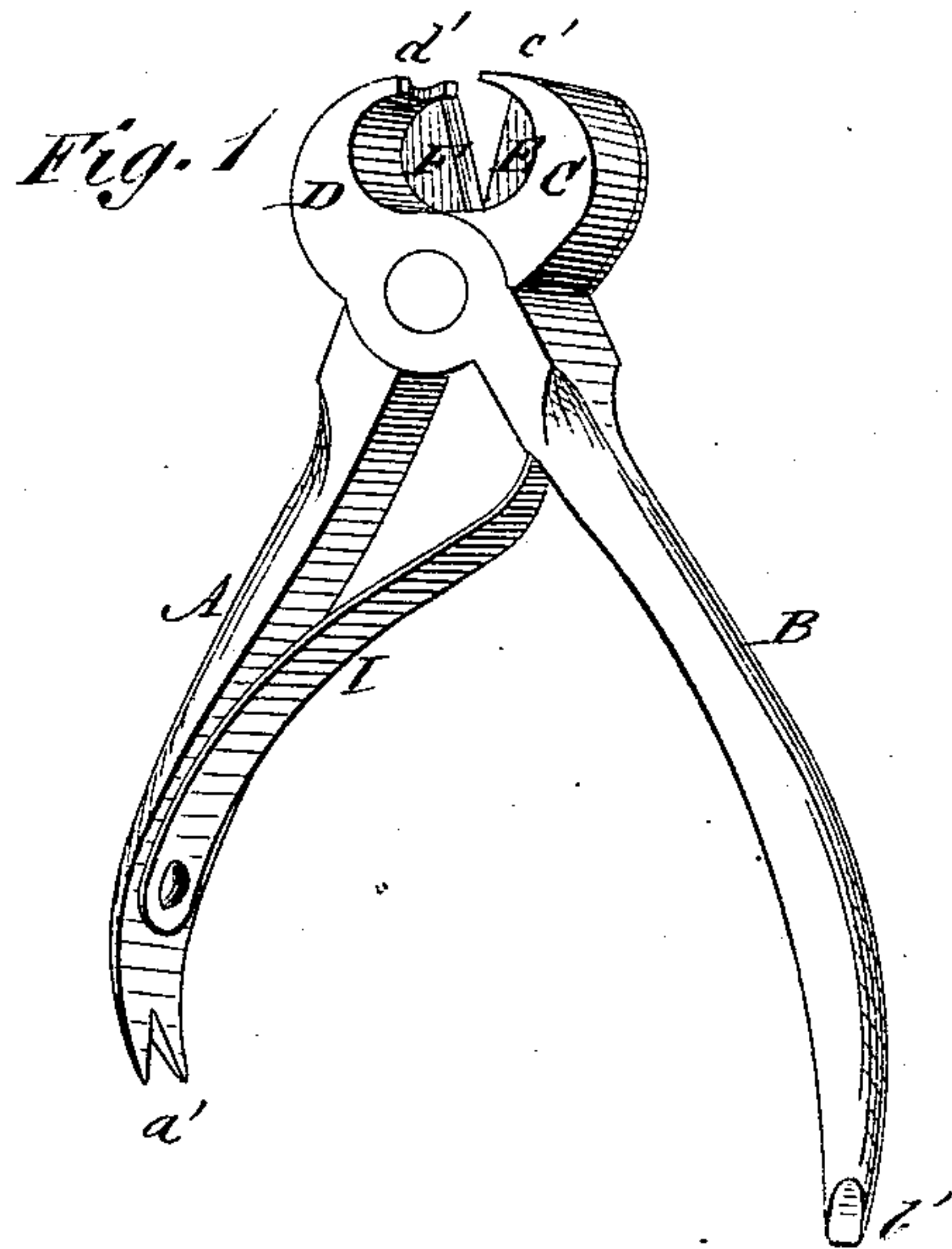


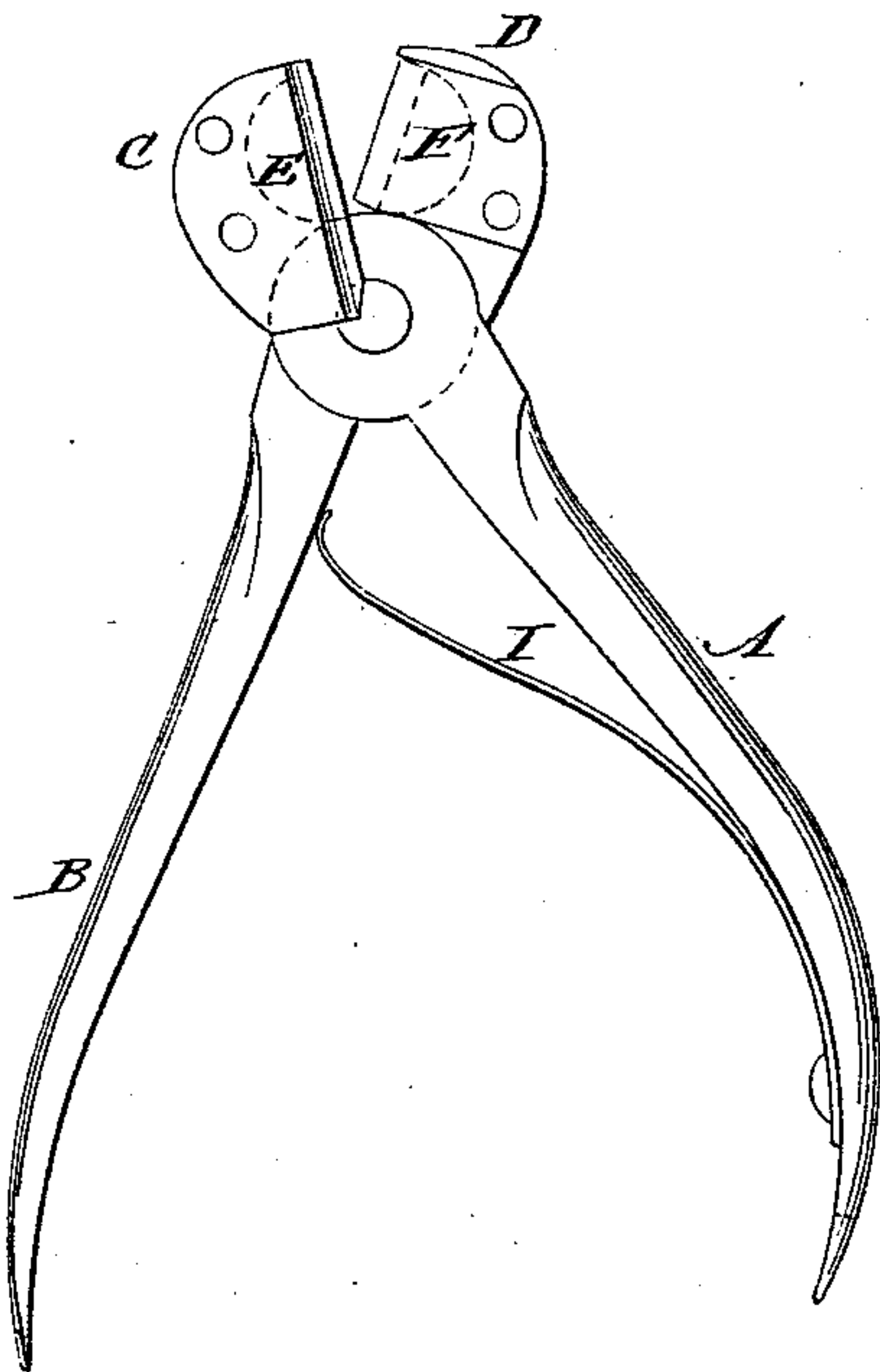
C. W. CANNON.  
Combination Tool.

No. 217,583.

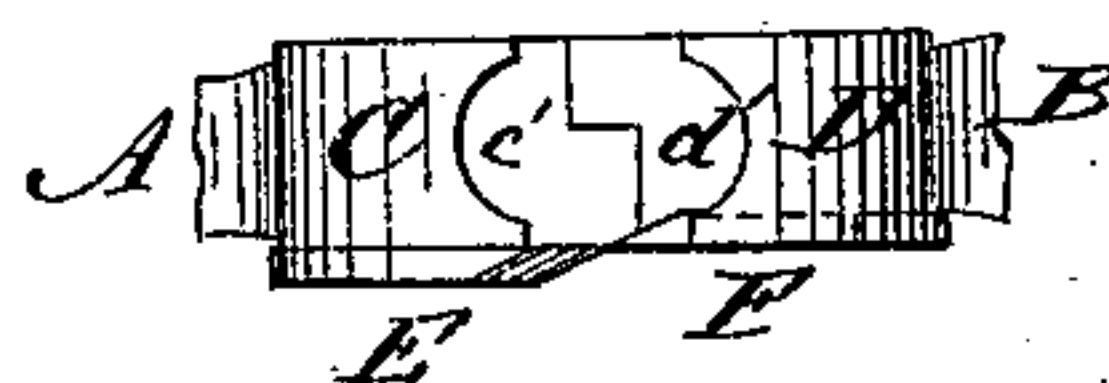
Patented July 15, 1879.



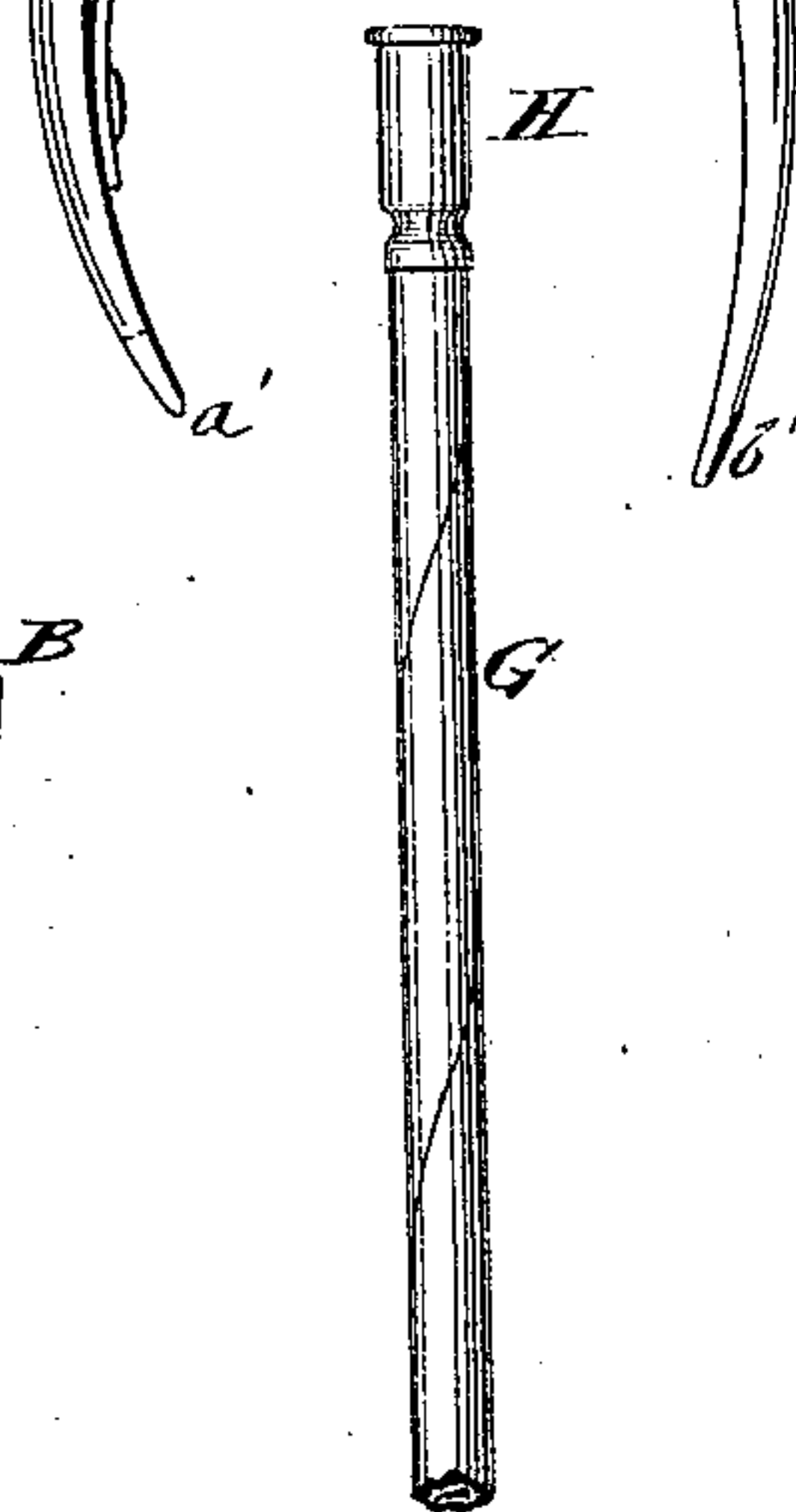
*Fig. 2*



*Fig. 3*



*Fig. 4*



WITNESSES:

*C. Nevens*  
*C. Sedgwick*

INVENTOR:

*C. W. Cannon*  
BY *Mum & Co*  
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# UNITED STATES PATENT OFFICE.

CHARLES W. CANNON, OF HELENA, MONTANA TERRITORY.

## IMPROVEMENT IN COMBINATION-TOOLS.

Specification forming part of Letters Patent No. **217,583**, dated July 15, 1879; application filed May 14, 1879.

*To all whom it may concern:*

Be it known that I, CHARLES WESLEY CANNON, of Helena, in the county of Lewis and Clarke and Territory of Montana, have invented a new and useful Improvement in Combination-Tools, of which the following is a specification.

Figure 1 is a perspective view of my improved tool. Fig. 2 is a side view of the same. Fig. 3 is an end view of the same. Fig. 4 is a side view of a piece of fuse and its cap. Fig. 5 shows a modified form of the tool.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved combination-tool designed for use in preparing giant-powder and other powder cartridges, so as to avoid the necessity of having to use a number of tools for this purpose, and which at the same time shall be neat and compact in construction and convenient in use in either capacity.

The invention consists in a combination-tool formed of the handles pivoted to each other, and having a tack-puller and a screw-driver formed upon their ends, the curved jaws having half-round notches formed in their edges, and the blades or cutters attached to the sides of the said jaws, as hereinafter fully described.

A B are the handles of the tool, which are pivoted to each other near their forward ends, and have curved jaws C D, similar to the jaws of nippers, formed upon their forward ends.

To the sides of the jaws C D are secured, by rivets or other suitable means, knives or cutters E F, which thus operate as shear-

blades to cut off the fuse G to the desired length.

In the edges of the jaws C D are formed half-round notches *c' d'*, for creasing the cap H after it has been placed upon the end of the fuse G, for the double purpose of keeping it in place upon the said fuse and making it water-tight, so that the cartridges can be used in damp or wet places.

The tool is held open by a spring, I, interposed between the handles A B, being attached to one of the said handles and resting against the other.

The end of the handle A has a notch, *a'*, formed in it to adapt it to serve as a tack-puller, and the end of the other handle, B, has a screw-driver, *b'*, formed upon it, designed especially for use in opening the boxes of powder which have their covers fastened on with screws.

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

A combination-tool formed of the handles A B, pivoted to each other, and having a tack-puller, *a'*, and a screw-driver, *b'*, formed upon their ends, the curved jaws C D, having half-round notches *c' d'* formed in their edges, and the blades or cutters E F, attached to the sides of the said jaws, substantially as herein shown and described.

CHARLES WESLEY CANNON.

Witnesses:

GEO. B. FOOTE,  
GRANVILLE STUART.