

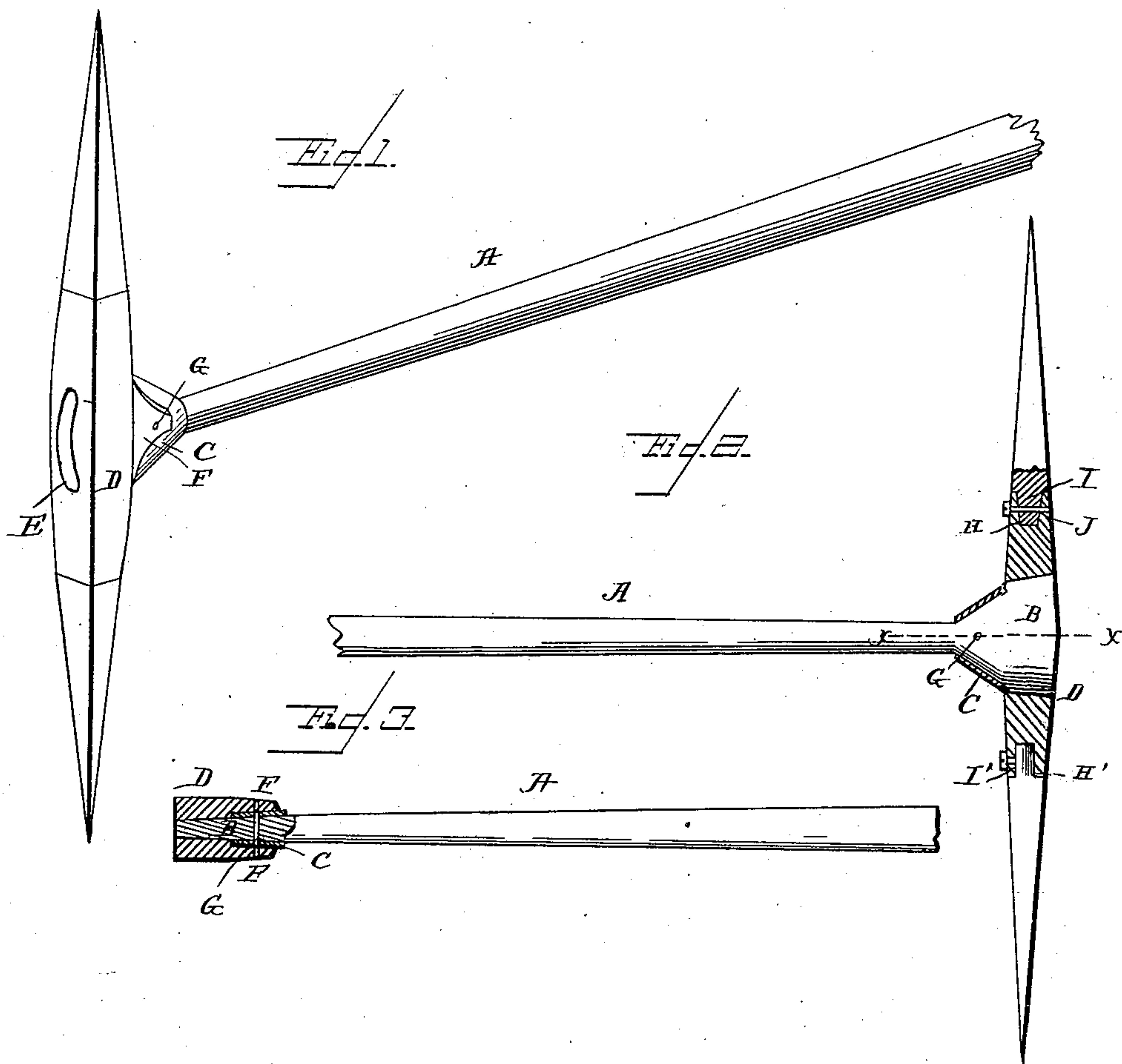
(No Model.)

J. J. LLOYD.

MINING TOOL.

No. 333,472.

Patented Dec. 29, 1885.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN J. LLOYD, OF STREATOR, ILLINOIS.

MINING-TOOL.

SPECIFICATION forming part of Letters Patent No. 333,472, dated December 29, 1885.

Application filed April 13, 1885. Serial No. 162,099. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. LLOYD, a citizen of the United States, residing at Streator, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Mining-Tools; and I do hereby declare that the following is 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.

Figure 1 is a perspective view of my improved mining-tool. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a longitudinal sectional view taken on the line *xx* in Fig. 2.

The same letters refer to the same parts in all the figures.

This invention relates to mining-tools; and it has for its object to provide a single or common handle with a large number of bits, such as picks, drills, axes, and other tools which are constantly required by miners.

The invention consists in the improved construction of the handle and the bits, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates a suitable handle, the front end of which has a flattened tapering enlargement, B, over which, from the butt-end of the handle, is slipped a correspondingly-shaped collar, C, which is to be made of malleable iron or brass, or other suitable material.

D is the tool-head, which is made of cast or wrought metal, and which is provided with an eye, E, fitting over the flattened head and collar of the handle, and having perforated wings F F, through which and the collar C may be driven a nail, G, or other suitable

fastening. The ends of the tool-head are provided with sockets H H', to receive the shanks of the tools or bits which are to be attached thereto. At H has been shown a square socket corresponding with the shape of the bit-shank I, which is retained in position by means of a laterally-inserted set-screw. At H' a round socket has been shown, corresponding with the rounded bit-shank I', which may be screw-threaded, if desired, and which may also, when inserted, be retained by a lateral set-screw.

The bits employed in connection with this invention may be fashioned into any desired shape or shapes—such as picks, drills, axes, and the like—and my present invention is not confined to any particular construction of the said bits. I would also have it understood that the construction of the shanks and sockets by which connection is made with the head may be changed or modified without departing from the spirit of my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a mining tool or drill, the combination, with a handle having an enlarged flattened tapering end, of a separate metallic collar or sleeve surrounding a portion of said flattened end, and a tool-head provided with wings extending over said sleeve and secured to the handle, substantially as shown and described.

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

JOHN J. LLOYD.

Witnesses:

HENRY COMLEY,
JOHN ESSINGTON.