

(No Model.)

N. B. MAYHEW.

SOLDERING IRON.

No. 305,618.

Patented Sept. 23, 1884.

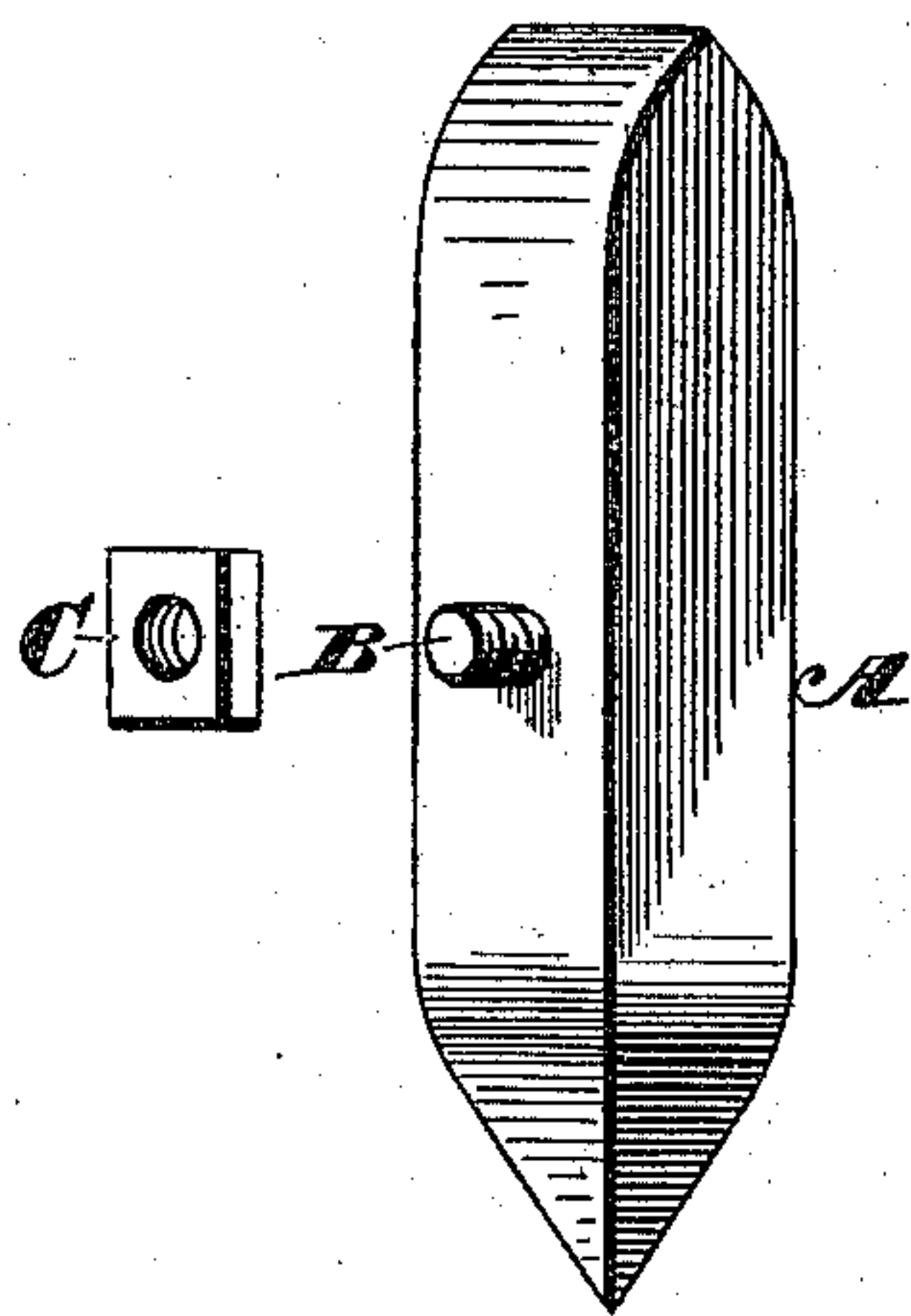
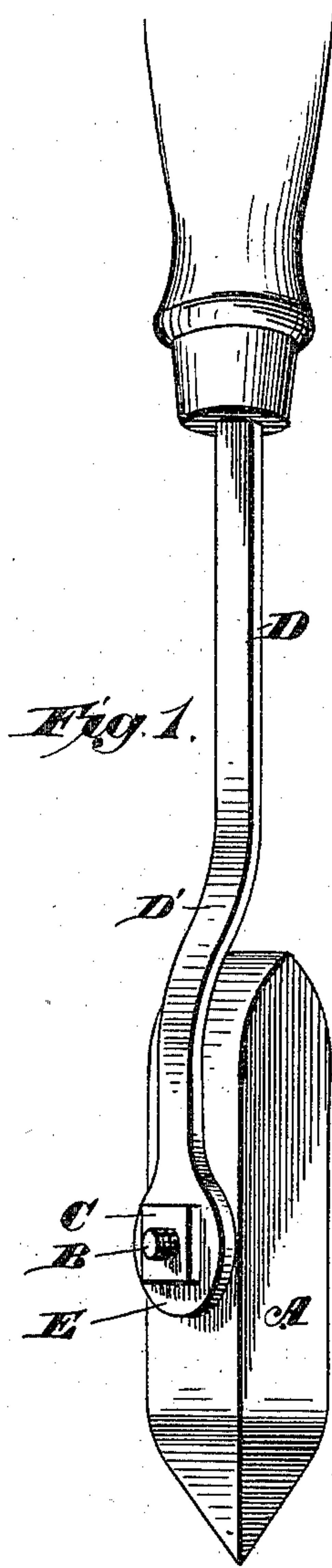
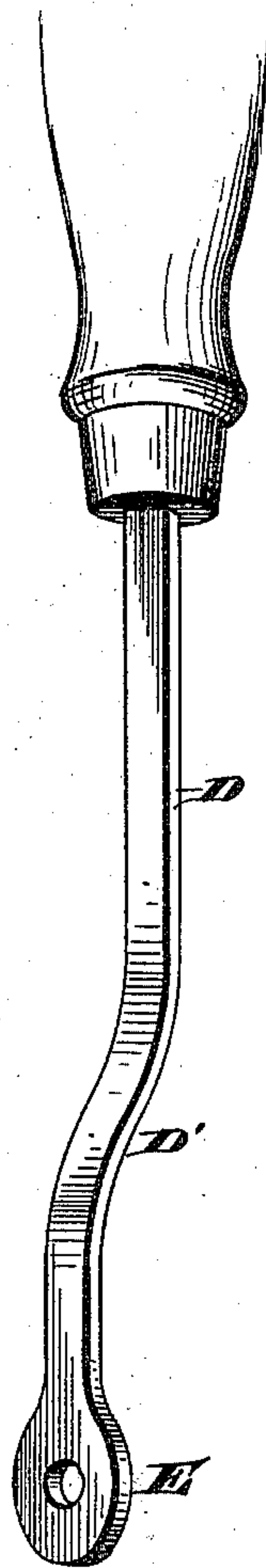


Fig. 2.



Witnesses.

Robert Everett

Dennis Sumby

Inventor.

Nathan B. Mayhew.

By

James L. Norris.

Atty.

UNITED STATES PATENT OFFICE.

NATHAN B. MAYHEW, OF NEW BEDFORD, MASSACHUSETTS.

SOLDERING-IRON.

SPECIFICATION forming part of Letters Patent No. 305,618, dated September 23, 1884.

Application filed April 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, NATHAN B. MAYHEW, a citizen of the United States, residing at New Bedford, in the State of Massachusetts, have invented certain new and useful Improvements in Soldering-Irons, of which the following is a full, clear and exact specification.

The object of this invention is to provide a soldering implement of novel construction in which the handle is capable of application to the copper head with either side against the head, and the head is capable, while the handle is in either position, of being adjusted and held at any angle with respect to the axis of the handle, whereby the implement can be more conveniently used to advantage in the performance of all work for which soldering-irons are used. This object I accomplish in the manner and by the means hereinafter described and claimed, reference being had to the accompanying drawings illustrating the invention, in which—

Figure 1 is a perspective view of the soldering-iron, and Fig. 2 perspective views of the parts detached.

Referring to the drawings, A indicates the copper head, of suitable form, having at or near the middle of its length a rigidly-attached projecting screw, B and D, the handle having the bend D', and provided at its end with a perforated ear, E, to slip over the screw, so that the handle can bear against the flat side of the head, and also against the rounded or beveled end thereof to bring the main straight body of the handle in line with the points of the head. The handle is clamped upon the head by a screw-nut, C, applied to the screw, and the construction is such that by removing the nut the handle can be detached and reversed to bring its other side against the head, so that its main body portion will stand off laterally from the head. In either position of the handle the nut can be loosened and the copper head set or adjusted at any angle with respect to the axis of the handle, so that the one implement is capable of advantageously performing various parts of the work to be effected, whereby I avoid the necessity of

providing a number of copper heads of different shape for special work. It will be evident that either end of the copper head can be brought into position for use, which is an advantage, as the ends are differently formed for different conditions of work.

By bending the handle and rendering it reversible, the plane of its outer or main body portion with reference to the plane of the copper head may be readily changed when desired, and by having the screw fixed in the head it is prevented from becoming loose, which would render the head unsteady, and, further, by loosely fitting the handle over the screw and clamping it directly on the copper by the screw-nut the handle can be easily adjusted and the screw is to some degree relieved of strain.

Heretofore in combination-tools a hollow soldering-iron has been secured by rivets to a metallic shank provided with screw-holes for screws, by which the iron may be attached and detached from a handle connected with a pipe for the passage of gas to the iron to heat the same, and in another instance a handle having a gas-supply tube attached thereto has been secured to a soldering-iron by means of a curved arm or bit which is adapted to be attached to and detached from the iron and handle by screws passed through said bit into the handle or iron. Such constructions, therefore, I do not claim; but

Having fully described my invention, what I claim is—

The combination of the copper head provided with the fixed screw, the curved handle fitted loosely over said screw, and the screw-nut on said screw for clamping the handle to the copper, whereby the curved handle is capable of application to the copper with either side against the copper, and the copper is capable, while the handle is in either position, of being set at any angle with respect to the axis of the handle, substantially as described.

NATHAN B. MAYHEW.

Witnesses:

C. S. RANDALL,

WM. H. MATTHEWS.