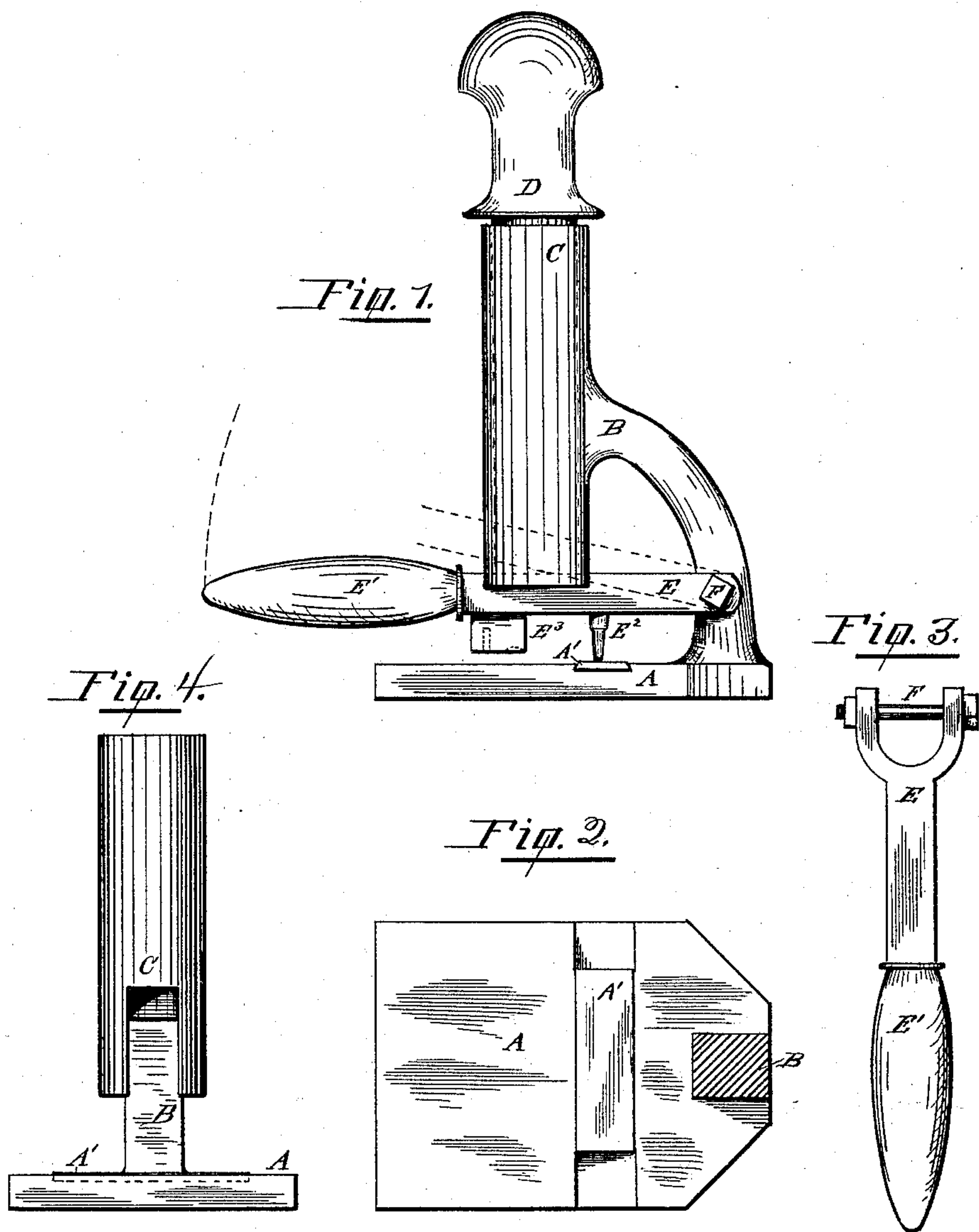


(No Model.)

E. D. MIDDLEKAUFF.
RIVETING MACHINE.

No. 474,177.

Patented May 3, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

ELLSWORTH D. MIDDLEKAUFF, OF STOCKTON, CALIFORNIA.

RIVETING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 474,177, dated May 3, 1892.

Application filed February 18, 1892. Serial No. 422,002. (No model.)

To all whom it may concern: .

Be it known that I, ELLSWORTH D. MIDDLEKAUFF, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Riveting-Machines; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to certain improvements in riveting-machines, and is used principally for the purpose of connecting together sections of leather belting of unusual thickness; and the novelty consists in the construction, arrangement, and adaptation of devices, as will be hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved riveting-machine. Fig. 2 is a plan of the base, showing the curved standard B in section. Fig. 3 is a detached view of the lever. Fig. 4 is a view of the implement with the driver D and lever E removed.

Similar letters in the different views indicate corresponding parts.

A represents a platform or base of metal, to which is attached a curved vertical metallic standard B, to the end of which is attached a metallic tube C, within which is a metallic driver D, provided with a protruding head. The driver D impinges upon a lever E, which at one end is hinged to the foot of the standard B and at its other end is provided with a handle E'. The lower end of the tube C is provided with side slots, which permit of the lever E being raised to any desired position.

Beneath the lever E is attached a punching-tube E², which impinges upon a small copper plate A', located in a cross-slot on the base A. At a suitable position beneath the lever E is also attached a lug E³, provided with a rivet set and clinch on its face.

The *modus operandi* of my machine is as follows: The sections of belting are placed between the punching-tube E² and plate A'. The lever E by means of the handle E' is raised, carrying with it the driver D. The lever is then pressed down, and, if necessary, as in the case of thick leather, the driver D is raised and then driven down forcibly. The rivet is then inserted in the belting, which is then moved to a position between the lug E³ and the base A, and the rivet is driven down and clinched by the operation of the lever E. When the face of the plate A' becomes worn by constant use, its position may be changed by sliding it in the slot of the base, or it may be removed and a new one substituted.

Having thus described my invention, what I claim as new is—

The improved riveting-machine herein set forth, consisting of the base A, having a slot containing the plate A', the standard B, attached to the base A, the tube C, with slotted lower ends, attached to the standard B, the driver D within the tube C and impinging upon the lever E, the lever E, hinged to the standard B and provided with the handle E', and the cutting-tube E² and the lug E³, attached beneath the lever E, all substantially as shown and described.

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

ELLSWORTH D. MIDDLEKAUFF.

Witnesses:

JOSHUA B. WEBSTER,
JAMES T. SUMMERVILLE.