No. 609,767. Patented Aug. 30, 1898.

# J. A. BAILEY.

## LATHE ATTACHMENT.

(Application filed June 30, 1897.)

(No Model.)

Fig. 1.

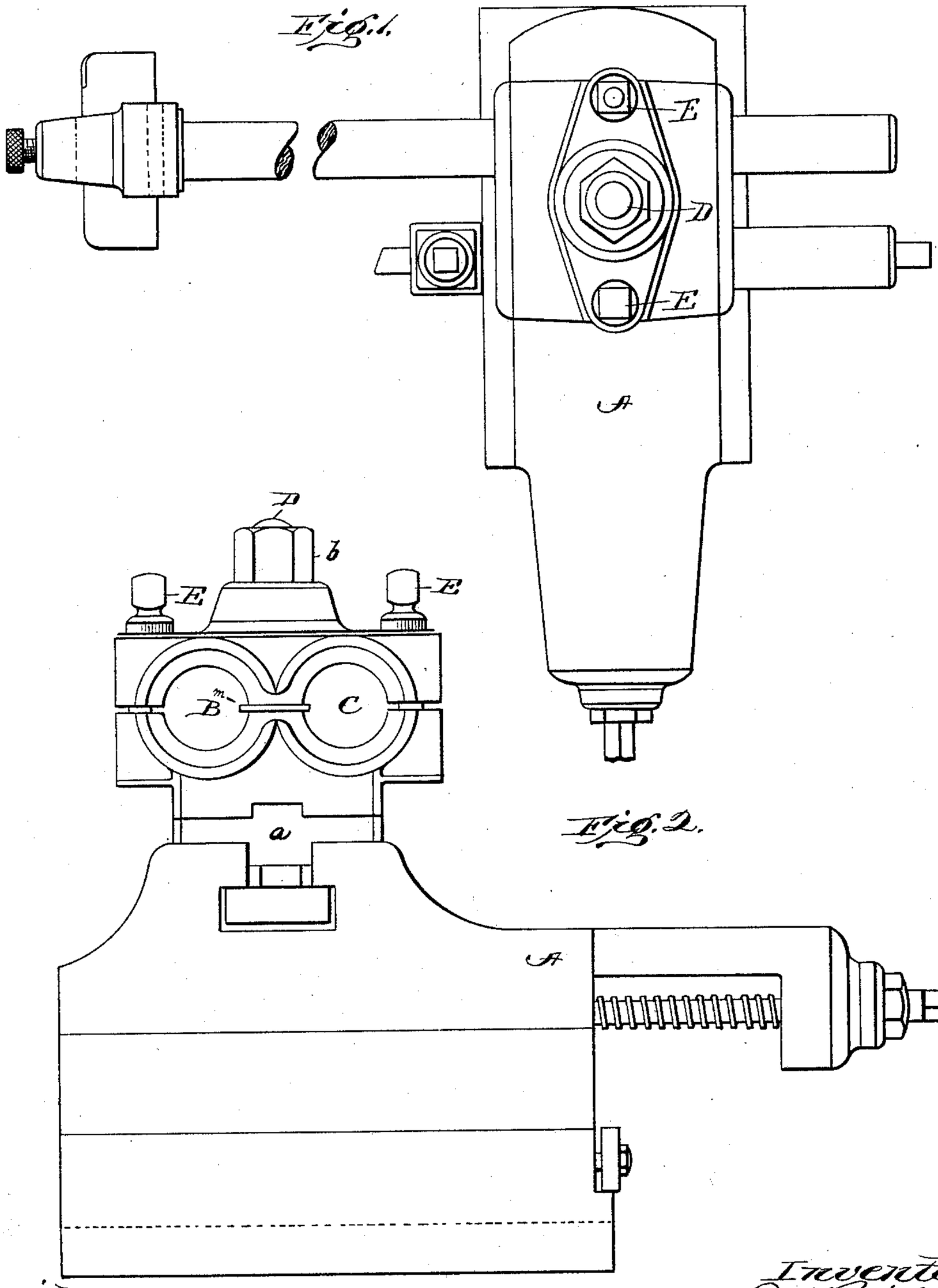


Fig. 2.




Witnesses.
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# UNITED STATES PATENT OFFICE.

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## LATHE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 609,767, dated August 30, 1898.

Application filed June 30, 1897. Serial No. 642,961. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. BAILEY, a citizen of the United States of America, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Lathe Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in lathe attachments, and more particularly to attachments for boring to be used on any metal-turning lathe now in use.

The object of this invention is to provide a device which when applied to an ordinary lathe will do boring and other work as rapidly and accurately as lathes constructed for that purpose alone.

Another object of this invention is to provide a device with a plural number of tool-holding sockets to be used in combination with adjustable boring-bars and other tools.

With these objects in view my invention consists in certain novel features, the particular construction of the various parts, and the manner of combination or arrangement of said parts, all of which will be described hereinafter and pointed out in the claim.

In the drawings forming part of this specification, Figure 1 is a top plan view of the complete device, showing a boring-bar and facing-tool held therein. Fig. 2 is a side elevation of the same with boring-bars and facing-tool removed.

Referring to the drawings, A represents an ordinary tool-rest, such as are used on the metal-turning lathes now in use, having mounted thereon my improved tool-holding device, which is provided with two parallel sockets B and C, having a key *m* set in and across the end thereof, the edges or ends of which project sufficiently into the said sockets to engage the slots in the tools to be used therein. The said tool-holding device is secured or attached to the tool-rest by a bolt D passing through the same at right angles to and between the said sockets. The sides of the tool-holder are sufficiently apart so that when the binding-screws E E, which are mounted in the outer edges parallel with the bolt D, are tightened or loosened the said sockets are made to clamp or unclamp the tools held therein at any part of their length.

The base of the attachment is provided with a tongue which fits snugly in the groove common to all lathe tool-rests to insure perfect alinement. The double-tongue plate *a*, as shown in Fig. 2, is required only when it is desired to use one of the attachments on several lathes whose tool-rests are not of the same height or whose grooves are of different widths.

The top of the holder is provided with a boss at its center, upon which rests the nut *b*, mounted upon the bolt D, the boss being of sufficient height so that when it is desired to tighten the nut the wrench will not come in contact with the binding-screws E E.

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

In a lathe attachment, the combination of a tool-holder provided with a plural number of tool-holding sockets, adapted to receive boring-bars and other tools, a key arranged within a slit between said sockets and adapted to engage the tools held in the said sockets, binding-screws for clamping or unclamping the said sockets, a boss upon the top of said attachment between the said binding-screws and a bolt to secure the said attachment to a tool-rest, substantially as shown and for the purpose set forth.

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

JOHN A. BAILEY.

Witnesses:

W. N. SMITH,

J. B. ROBERTS.