(No Model.) 2 Sheets—Sheet 1.

W. J. ARMSTRONG.

RATCHET DRILL.

No. 306,376. Patented Oct. 14, 1884.

FIG. 1.

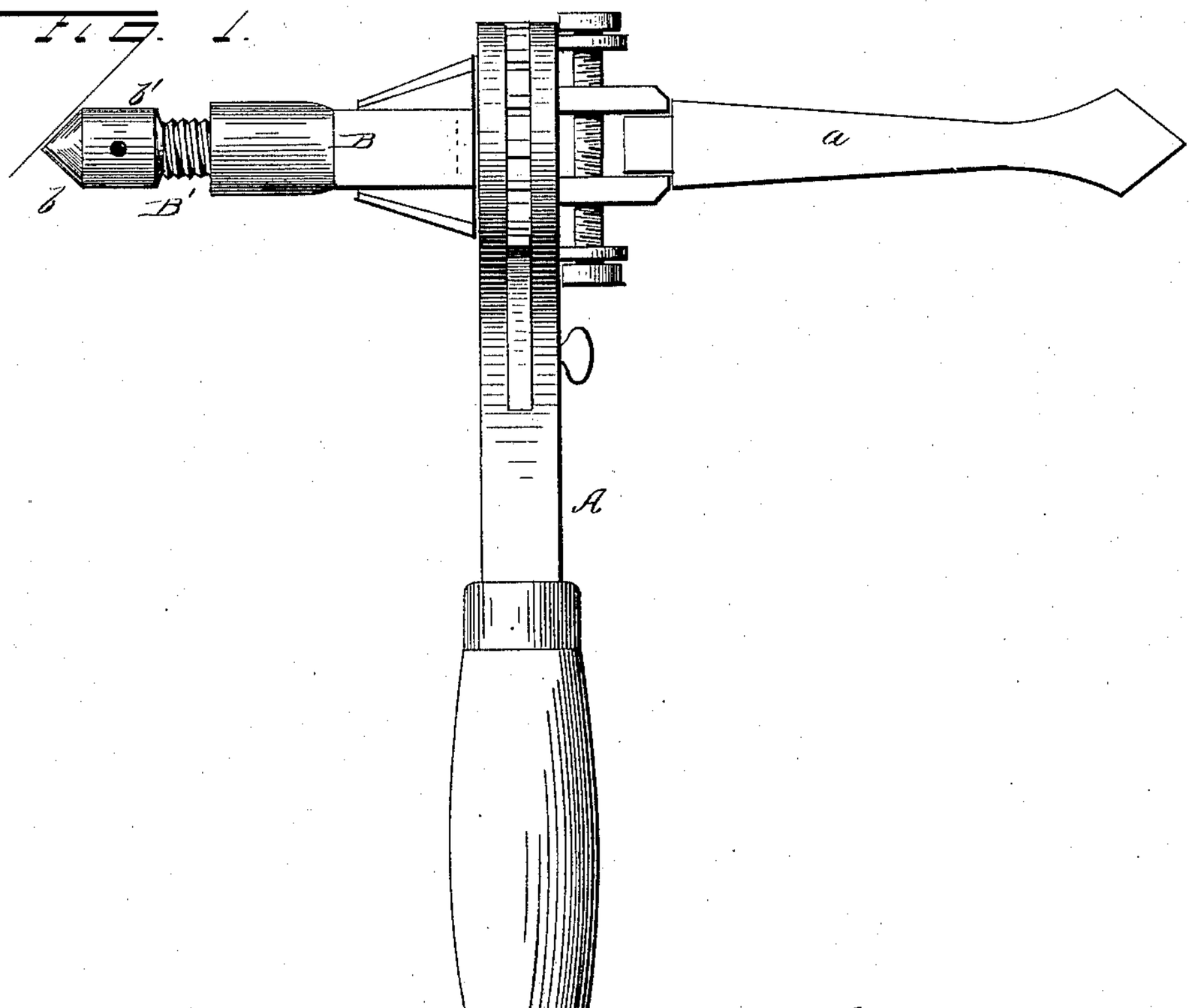
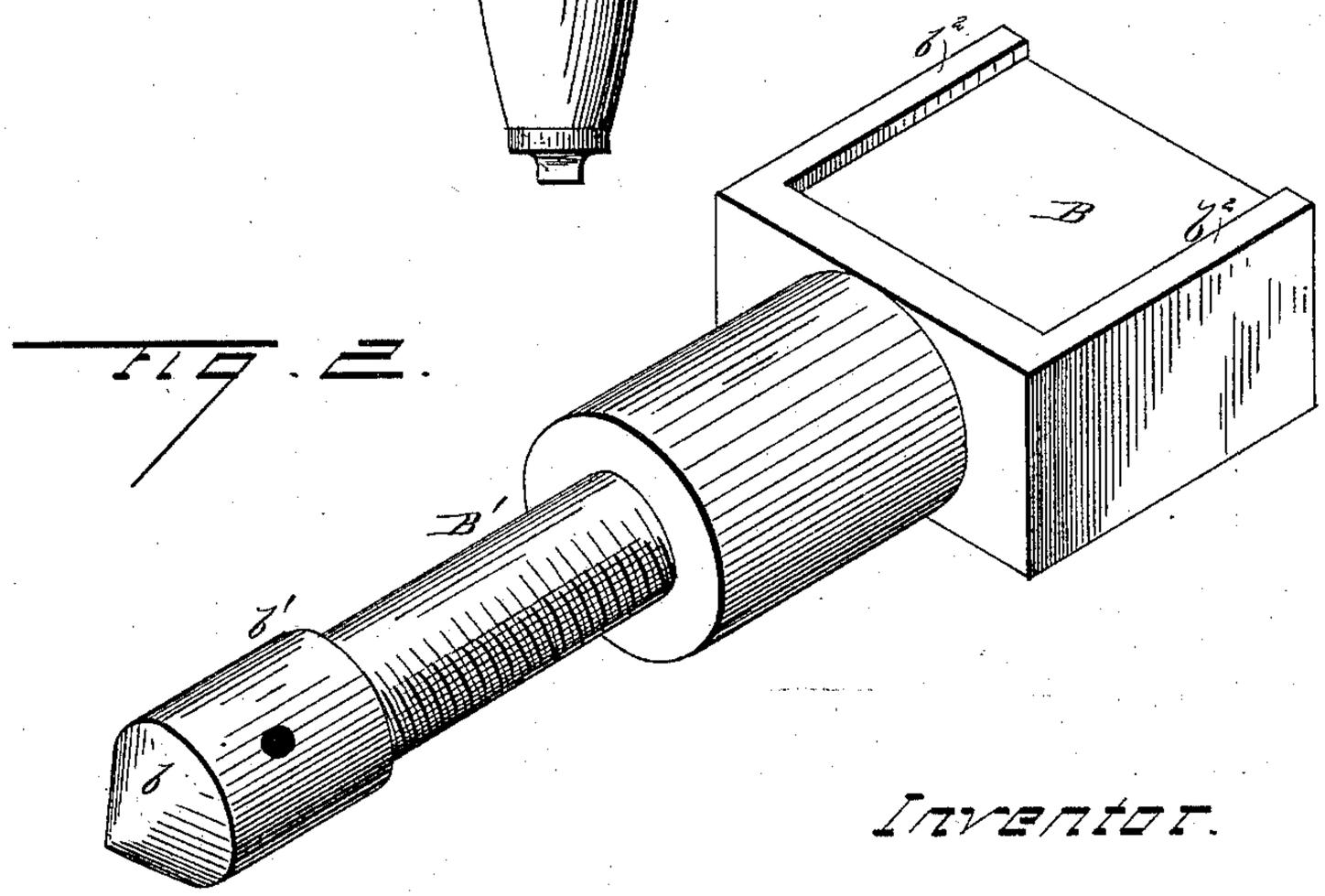


FIG. 2.



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(No Model.)

2 Sheets—Sheet 2.

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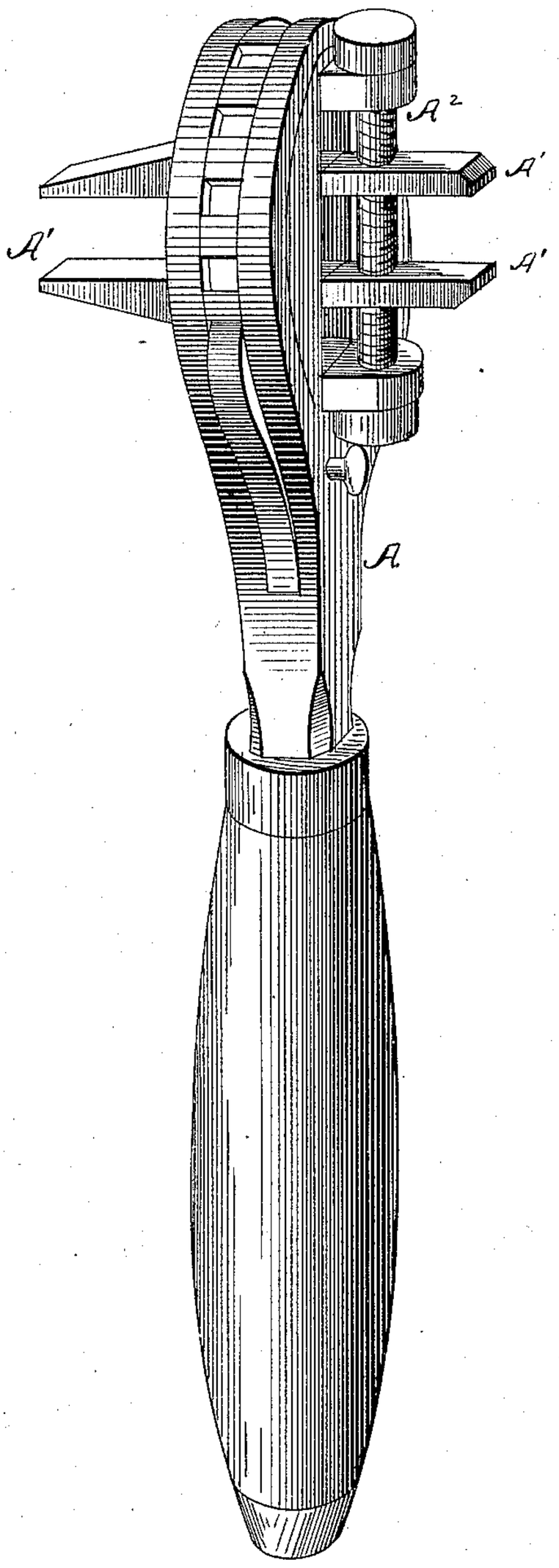
Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM J. ARMSTRONG, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO JOHN A. WILSON, OF NASHVILLE, TENNESSEE.

RATCHET-DRILL.

SPECIFICATION forming part of Letters Patent No. 306,376, dated October 14, 1884.

Application filed July 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. ARMSTRONG, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Attachments for Ratchet-Wrenches, of which the following is a specification, to wit:

This invention relates to an improvement in attachments for ratchet-wrenches; and it consists in a feeding-screw for use in the wrench when drilling, substantially as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a side view of a wrench with my invention attached. Fig. 2 is a perspective view of the attachment, and Fig. 3 is a perspective view of a wrench such as I shall use.

A represents a ratchet-wrench of an ordinary and well-known form, having jaws A′, which project upon each side of the head, so as to be used, if necessary, with a different tool in each side, and adjusted to fit different-sized tools by means of a screw, A^2, having a right and left hand thread, as shown in Fig. 3. This form of wrench is one I prefer to use; but any form having means for clutching a tool upon each side of the head would serve the purpose equally well. In one side of this wrench I secure a drill-point, *a*, of the usual form, and upon the opposite side is placed a removable socket, B, having a feeding-screw, B′, formed with a conical bearing-point, *b*, as usual in this class of articles. The head *b*′ of the screw is provided with holes for the engagement of a spanner, or formed angular for the attachment of a wrench, by which the screw may be advanced or retracted, as is desired in operation.

When the socket B is intended for use in a wrench having jaws similar to those shown in the drawings, it will be made with small flanges b^2 upon its sides, which prevent its twisting or getting out of line. This feeding attachment may be made to fit any wrench, and enables it to be used as an ordinary ratchet-drill, and keeps a constant pressure upon the drill-point during the operation. It may be varied in form somewhat without departing from the spirit of my invention.

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

A feeding attachment for ratchet-wrenches, consisting of the flanged socket B and the feeding-screw B′, having a conical head, *b*′, adapted for engagement with a wrench or spanner, substantially as and for the purpose herein set forth.

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

WILLIAM J. ARMSTRONG.

Witnesses:

JOHN A. WILSON,

W. C. MCARTHUR.