

J. W. Craig,

Bit Stock.

N^o 78,652.

Patented June 9, 1868

Fig. 2

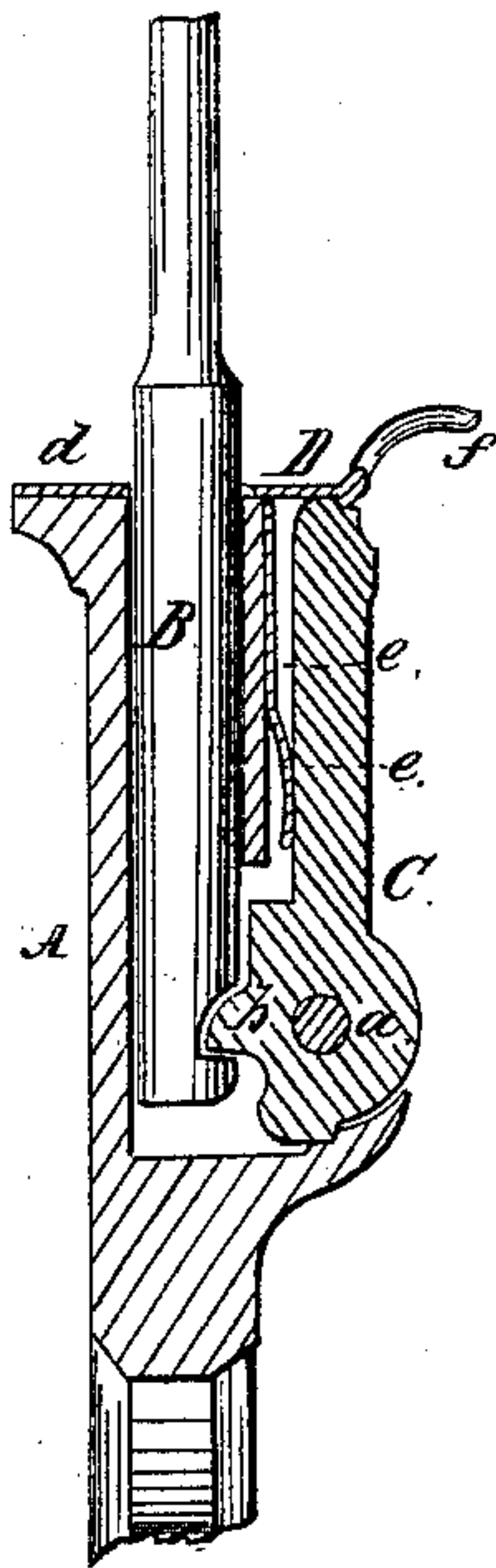
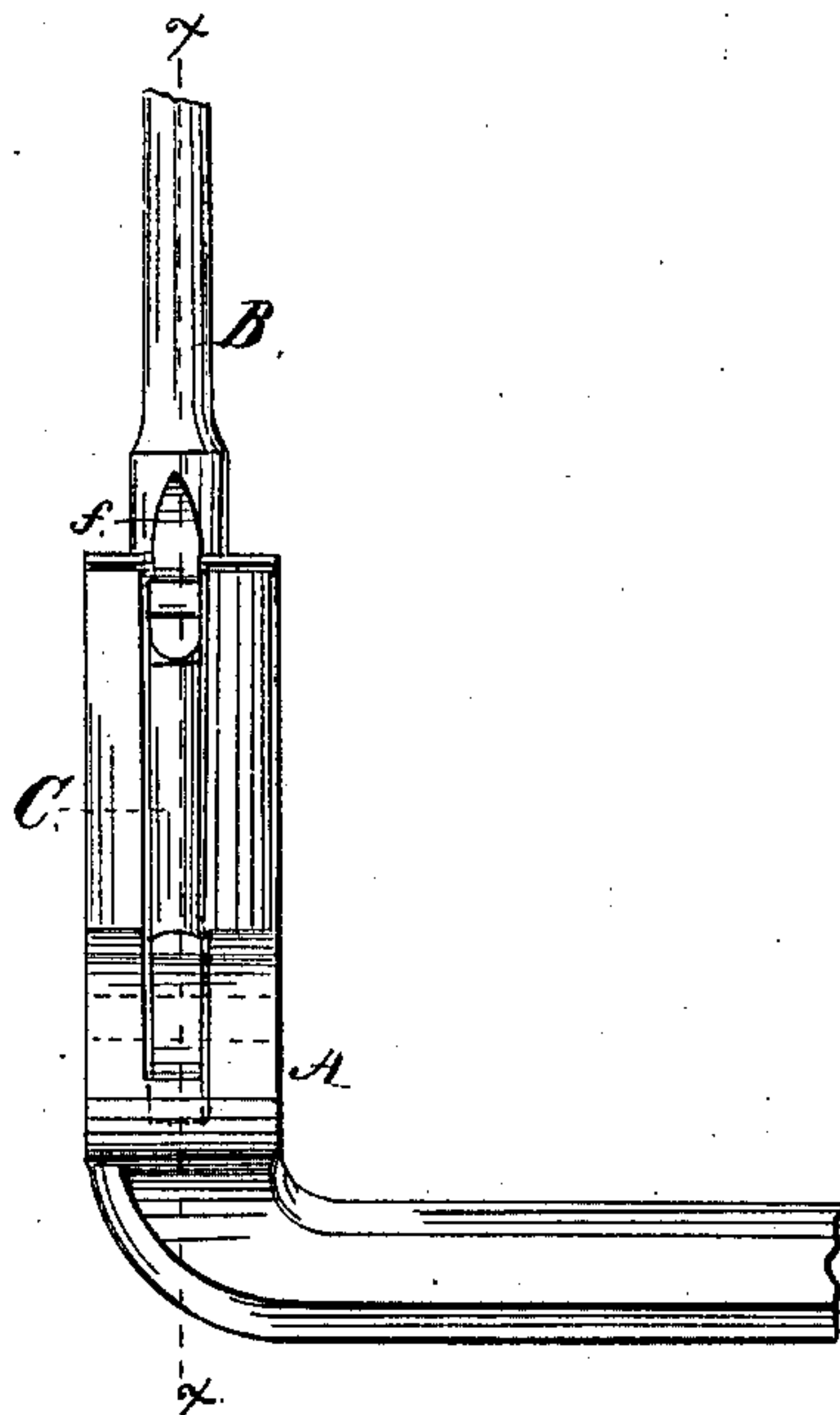


Fig. 1



Witnesses:
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JOHN W. CRAIG, OF KNOXVILLE, ILLINOIS.

Letters Patent No. 78,652, dated June 9, 1868.

IMPROVEMENT IN BRACES FOR BITS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN W. CRAIG, of Knoxville, in the county of Knox, and State of Illinois, have invented a new and improved Device for Holding Bits in Braces; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to the manner in which auger-bits and other kinds of bits are held in braces for boring-purposes.

And it consists in a fastening-lever and a spring-catch, applied to the brace, and arranged in the manner hereinafter described.

Figure 1 represents a section of the brace, with a back view of the fastening-lever and spring-catch.

Figure 2, a sectional side view of the same, the section being through the line *x x* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the brace.

B is the bit.

C is the fastening-lever.

D is the spring-catch, which holds the lever C in place when the bit is fastened.

The brace is slotted or recessed out on one side sufficiently to admit the lower portion of the lever, as seen in the drawing.

The lever is hung or jointed to the brace by a pin, at *a*, and, on its inner side, it has a projecting lip or toe, *b*, which fits into a corresponding recess in the shank of the bit, when it stands, as represented in the drawing, with the bit fastened.

When in this position, the lever is held in place by the spring-catch D.

This spring is a plate, through which the bit passes, and it is fastened to the end of the brace by the screws seen at *d*.

The outer end of this spring forms a thumb-piece, *f*, which is raised by the thumb when the bit is liberated.

e represents a spring, which is attached to the brace, and which bears against the fastening-lever with a constant pressure, when the bit is fastened as seen.

When the spring-catch D is raised, the lever is thrown back by the tension of the spring *e*, and then the lever acts with a short purchase to raise the bit from its socket, thus preventing all trouble, in consequence of the sticking of the bit, as is common with the ordinary brace.

By this arrangement, the bit is firmly held in its socket at all times when in use, and liberated therefrom with the greatest ease.

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

The device for holding bits in braces, consisting of the pivoted spring-lever C, formed with the toe *b*, which engages with the bit, the free end of said lever adapted to catch under the spring-catch D, secured upon the end of the brace, and provided with a round hole for the passage of the bit, all constructed and arranged to operate as herein shown and described.

Witnesses:

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