

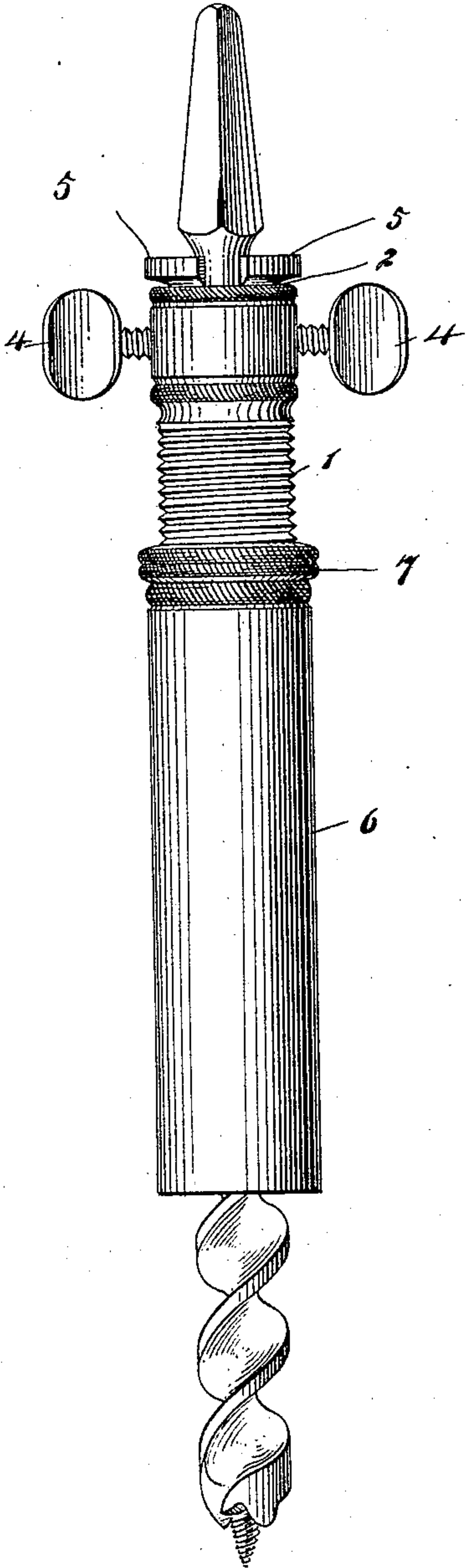
(No Model.)

E. VAN CAUWENBERG.
BIT GAGE.

No. 569,896.

Patented Oct. 20, 1896.

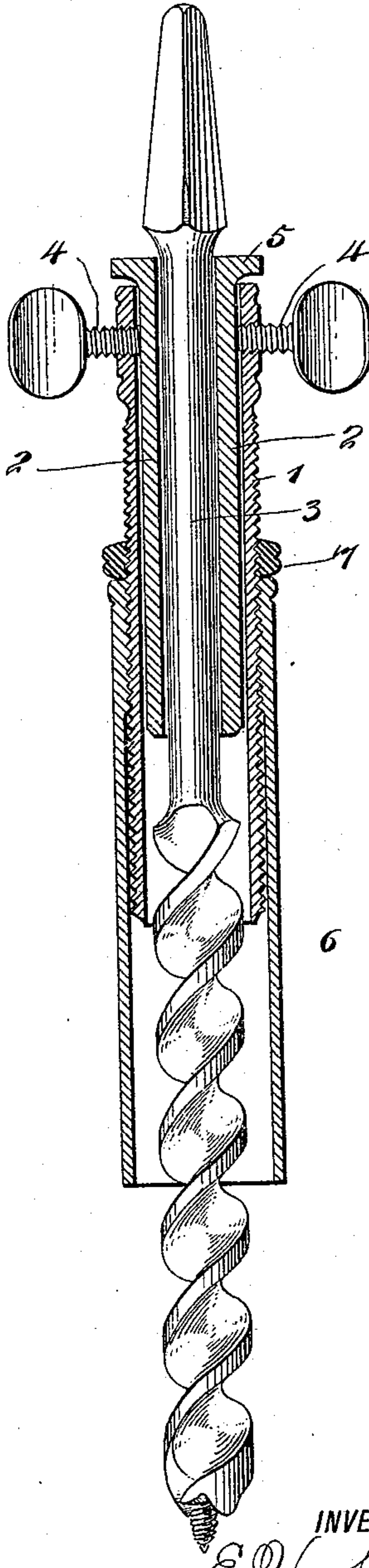
Fig 1



WITNESSES:

G. C. Channing
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Fig 2



INVENTOR

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UNITED STATES PATENT OFFICE.

EDMUND VAN CAUWENBERG, OF NEW YORK, N. Y.

BIT-GAGE.

SPECIFICATION forming part of Letters Patent No. 569,896, dated October 20, 1896.

Application filed August 13, 1896. Serial No. 602,594. (No model.)

To all whom it may concern:

Be it known that I, EDMUND VAN CAUWENBERG, of New York city, in the county and State of New York, have invented a new and
5 Improved Bit-Gage, of which the following is a full, clear, and exact description.

This invention relates to devices for regulating the depth of bore of a bit, and the object is to provide a simple device that may
10 be secured directly to the bit instead of to the bit-brace, as is required by other devices of this character, and with which, in order to attach the gage to the brace, it is necessary to remove the chuck, thus occasioning a con-
15 siderable loss of time.

A further object is to so construct the gage that it may be quickly and easily adjusted.

I will describe the bit-gage embodying my invention, and then point out the novel fea-
20 tures in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

25 Figure 1 is an elevation of a bit-gage embodying my invention, and Fig. 2 is a longitudinal section thereof.

The gage comprises a sleeve 1, provided with a screw-thread on its outer side and hav-
30 ing a length substantially equal to the length of the bit-shank. Arranged within the sleeve 1 are segmental clamping-pieces 2, designed to engage closely against the shank portion 3 of the bit. They are clamped thereon by
35 means of thumb-screws 4, extending through tapped openings in the sleeve 1 and impinging against said clamping-pieces. The clamping-pieces are of course removable from the sleeve 1, and preferably the outer end of each
40 clamping-piece will have an outwardly-extended flange 5, so as to prevent their entire movement into the sleeve.

Preferably mounted on the sleeve 1 is a gage-sleeve 6, having a length substantially
45 equal to that of the bit. This sleeve 6 has an interior screw-thread at its upper end to engage the screw-thread on the sleeve 1, and preferably a set-nut 7, that will also be engaged with the thread of the sleeve 1, so that

it may be abutted against the end of the sleeve 50 6 after the same shall have been adjusted.

In operation the bit may be placed within the device, and then by tightening the thumb-screws 4 the clamps may be made to hold the device tightly in engagement with the bit. 55 Then the gage-sleeve 6 may be adjusted on the sleeve 1 until its end is at the proper distance from the end of the bit, this distance of course being the depth of the hole required to be bored. After adjusting the gage-sleeve 60 the set-nut 7 will be turned down upon the same, thus preventing its backward rotation.

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

1. A bit-gage, comprising an exteriorly-threaded sleeve for engaging around the shank portion of the bit, clamping devices for clamping said sleeve on the bit-shank, and a gage-sleeve having an interior screw-thread 70 to engage the screw-thread of the first-named sleeve, substantially as specified.

2. A bit-gage, comprising an exteriorly-threaded sleeve adapted to surround the shank portion of the bit, segmental clamping- 75 blocks for engaging with the shank of the bit within the sleeve, set-screws engaging through tapped holes in the sleeve and impinging against said clamping-blocks, and a gage-sleeve having an interior screw-threaded por- 80 tion to engage the screw-thread of the first-named sleeve, substantially as specified.

3. A bit-gage, comprising a sleeve adapted to engage around the bit-shank, and having a length substantially that of the bit-shank, 85 segmental clamping-pieces adapted to engage the bit-shank within the sleeve, set-screws engaging through tapped holes in said sleeve and engaging with said segmental clamping-pieces, a gage-sleeve having an interior screw- 90 thread at its upper portion to engage a screw-thread on the first-named sleeve, and a set-nut on said first-named sleeve, substantially as specified.

EDMUND VAN CAUWENBERG.

Witnesses:

JOSEPH J. LAMBERK,
EMIL HEINICKE.