

No. 641,922.

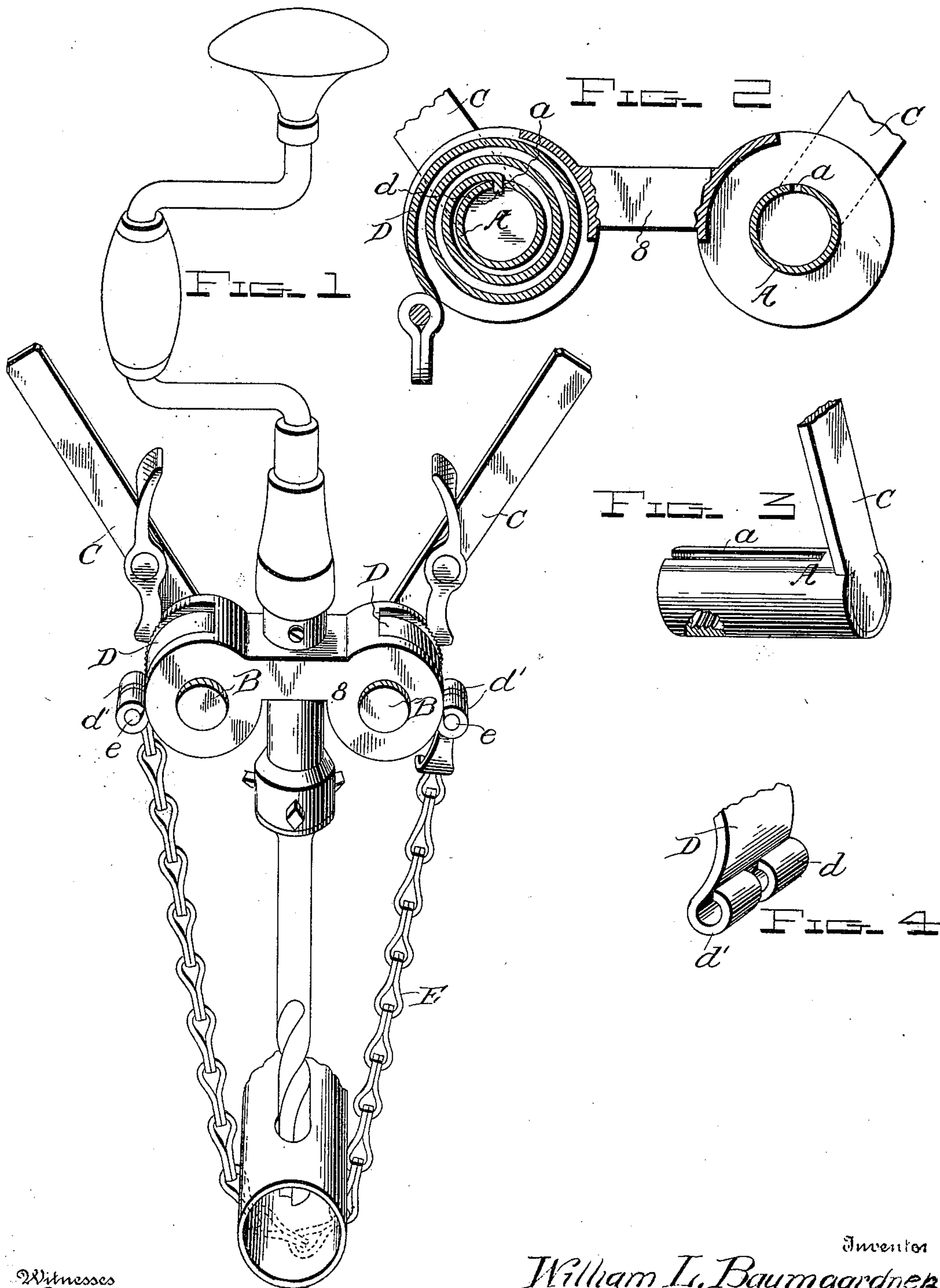
Patented Jan. 23, 1900.

W. L. BAUMGARDNER.

BRACE OR BIT STOCK ATTACHMENT.

(Application filed July 22, 1899.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM L. BAUMGARDNER, OF WATSONVILLE, CALIFORNIA.

BRACE OR BIT STOCK ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 641,922, dated January 23, 1900.

Application filed July 22, 1899. Serial No. 724,781. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. BAUMGARDNER, a citizen of the United States, residing at Watsonville, in the county of Santa Cruz and State of California, have invented certain new and useful Improvements in Brace or Bit Stock Attachments; 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.

My invention relates to certain improvements in attachments for braces, and more particularly to that class of chuck attachments of which the device shown in the application, Serial No. 701,217, filed by me on January 5, 1899, may be taken as a type.

The object of the present invention is to simplify the construction and increase the durability and efficiency of the device herebefore referred to.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved bit-brace attachment. Fig. 2 is a longitudinal section through the yoke or bracket 8. Fig. 3 is a detail perspective view of one of the tubular shafts, and Fig. 4 is a similar view of the free end of one of the tension-springs.

The general arrangement and operation of the device are fully illustrated and described in my application herebefore referred to, and the present improvement consists particularly in the tubular shafts A A, journaled in the bracket 8 and provided with the longitudinal slot *a* and screw-cap B, and C denotes the hand-lever, which is brazed to the closed end of the tubular shaft.

D designates a flat spiral spring having its inner edge formed with a radial longitudinal lip *d* to engage the slot *a* in the tubular shaft which the spring encompasses, and the free end of said spring terminates in the alined eyes *d' d'* to receive the bolt or pin *e*, on which the end of the chain E is secured.

The attachment is fitted to a carpenter's brace and a drill fitted to the chuck-spindle, as shown in Fig. 1, and the hand-levers C C are turned downward parallel with the drill to take the tension off of the springs D D. The chain is then passed around the work, as shown, with the point of the drill centered on the work. The levers C C are now turned upward to the position shown in Fig. 1, which throws the tension of the springs on the drill, and as the brace is rotated the tool and work are brought together by the action of the springs, and thus automatically feed the drill to the work without the necessity of the operator applying pressure to the brace.

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

The combination with the yoke or bracket 8, of the tubular shaft A formed with the longitudinal slot *a*, the hand-lever C fixed to the closed end of said tubular shaft, the spiral spring D formed with the alined eyes *d' d'* and the radial lip *d*, and the removable cap B having a threaded engagement with the open end of said tubular shaft, substantially as shown and described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM L. BAUMGARDNER.

Witnesses:

J. J. MOREY,
L. A. SALMTAG.