

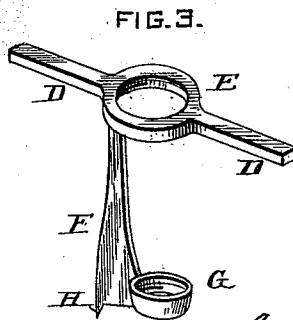
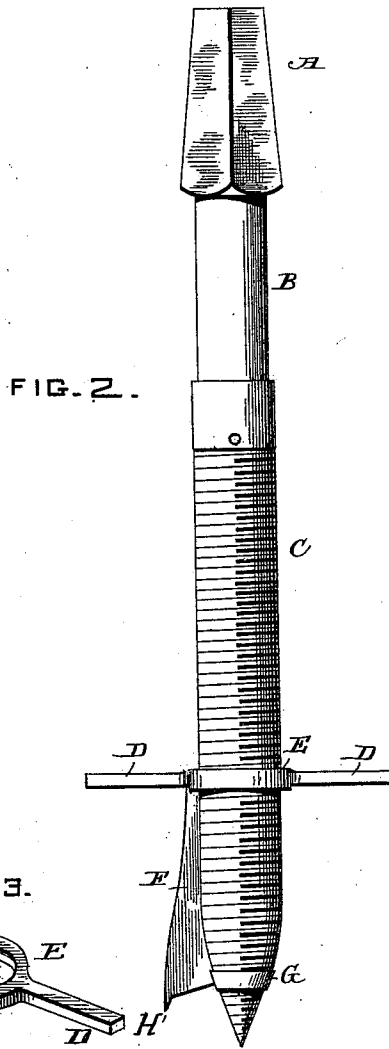
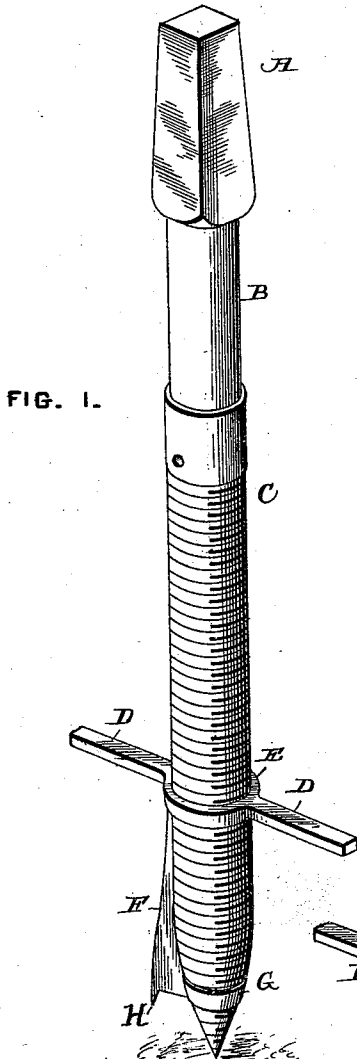
(No Model.)

A. A. BOURGEONS.

BIT.

No. 514,178.

Patented Feb. 6, 1894.



Witnesses

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UNITED STATES PATENT OFFICE.

ABRAHAM A. BOURGEONS, OF EAST LONGMEADOW, MASSACHUSETTS.

BIT.

SPECIFICATION forming part of Letters Patent No. 514,178, dated February 6, 1894.

Application filed September 7, 1893. Serial No. 484,993. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM A. BOURGEONS, a subject of the Queen of Great Britain, residing at East Longmeadow, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Bits; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to bits; and its objects are hereinafter more fully described and specified. I accomplish these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of a bit having my invention applied thereto. Fig. 2 is a side elevation thereof; and Fig. 3 is a detail view of the extension.

The same letters refer to corresponding parts in all the views.

A indicates the square end of an ordinary bit C, adapted to be inserted in the socket of a revoluble handle, to which suitable power may be applied manually or otherwise. An extension F having a sharp, tapering end, H

at the bottom is integrally constructed, at its upper terminus with the lever D having a central, threaded aperture E meshing with the threads of the bit C, and at its lower terminus with a threaded ring G, concentric with the aperture E of the lever D. It is thus apparent that in the boring operation the area of the resulting perforation has a common radius with that indicated by the combined radii of the bit and the extension F.

By providing extensions F of different widths, apertures of varying diameters are secured.

Having thus fully described my invention, what I claim is—

The combination with the bit C of the variable extension F having a tapering sharp point H at its lower end and the threaded ring G in the same plane approximately therewith; and having at its upper end a lever D with a central threaded aperture E meshing with the threads of the bit, for the purpose set forth.

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

ABRAHAM A. BOURGEONS.

Witnesses:

WM. S. BELLOWS,
K. I. CLEMONS.