

No. 716,441.

Patented Dec. 23, 1902.

G. W. LATHAM.
BORING TOOL.

(Application filed June 12, 1902.)

(No Model.)

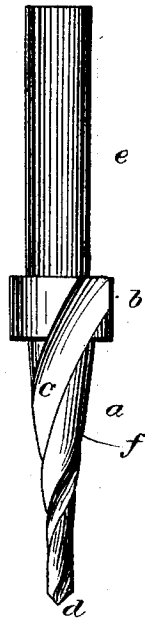


Fig. 1.

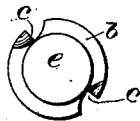


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. LATHAM, OF RIDLONVILLE, MAINE.

BORING-TOOL.

SPECIFICATION forming part of Letters Patent No. 716,441, dated December 23, 1902.

Application filed June 12, 1902. Serial No. 111,251. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. LATHAM, a citizen of the United States, residing at Ridlonsville, in the county of Oxford and State of Maine, have invented certain new and useful Improvements in Boring-Tools; and I do hereby 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 improvements in wood-boring tools, the object being to construct a twist-drill for boring a tapering hole.

With this end in view my invention consists of a cylindrical drill or bit having the same diameter from its point to some distance therefrom and then increasing in diameter to the end.

It also comprises a stop for limiting the depth of the hole to be drilled.

Improved details in the construction and arrangement of the several parts of my invention will be apparent from the detailed description hereinafter, together with the appended claims, when taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a side elevation, and Fig. 2 a top plan view.

Referring specifically to the drawings, *a* represents the bit or drill, and *b* a stop at the end of the same for limiting the depth of the hole to be drilled. The stop is integral with the bit. Two spiral grooves or flutes *c*, one on each side of the bit, extend from the point *d*

of the same up to the end and through the stop *b*, forming two cutting edges and a clearing space for the waste or cuttings. The number of flutes is not necessarily limited to two, although that number will generally be employed; but the bits, if desired, may be formed with more or less flutes. The shank of the bit is indicated at *e*. For a short distance from the point *d* the bit has the same diameter and then begins to increase in diameter up to its end, as indicated at *f*. By reason of this taper I am enabled to drill a tapering hole. The length or thickness of the bit or any of the dimensions thereof are not limited to any given size, as it is apparent that the size of the bits may be varied in size to suit the character of the work to be done by them.

Having thus described my invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A boring-tool comprising a bit, a stop integral therewith, and flutes extending from the point of the bit through the stop, substantially as shown and described.

2. A boring-tool comprising a bit increasing in diameter from a point near the end thereof, a stop thereon, and flutes extending from the point of the bit through the stop, substantially as shown and described.

3. A boring-tool comprising a tapering bit, a stop integral therewith, and flutes extending from the point of the bit through the stop, substantially as shown and described.

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

GEORGE W. LATHAM.

Witnesses:

JAMES B. STEVENSON,
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