

J. T. PUGH.
 AUGER BIT.
 APPLICATION FILED MAY 20, 1910.

967,055.

Patented Aug. 9, 1910.

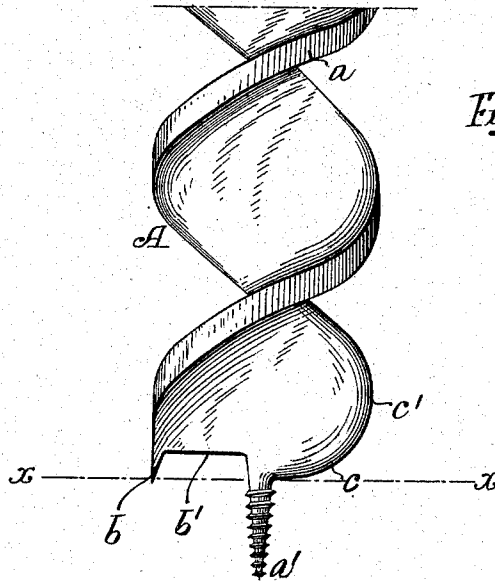


Fig. 1.

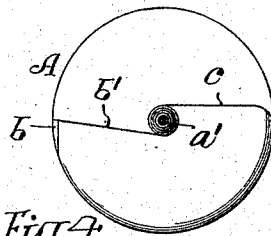


Fig. 2.

Fig. 3.

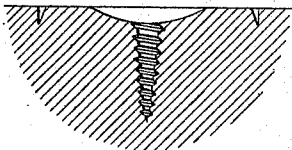


Fig. 4.

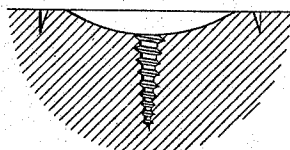


Fig. 5.

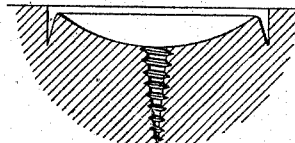


Fig. 6.

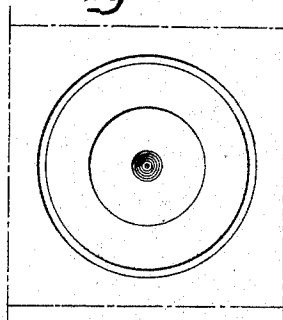


Fig. 7.

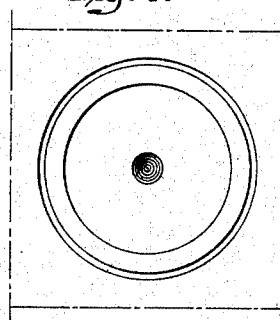
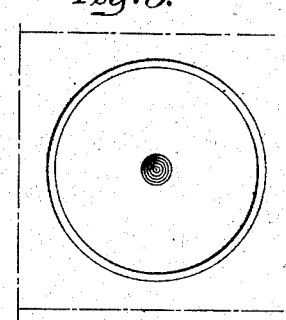


Fig. 8.



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UNITED STATES PATENT OFFICE.

JOB T. PUGH, OF PHILADELPHIA, PENNSYLVANIA.

AUGER-BIT.

967,055.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed May 20, 1910. Serial No. 562,509.

To all whom it may concern:

Be it known that I, JOB T. PUGH, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain
5 Improvements in Auger-Bits, of which the following is a specification.

The object of my invention is to so construct an auger bit that it will cut a clean hole in wood without chipping or splitting.

10 The bit has a gouge edge and a marker, the marker scoring the circle, while the gouge removes the material within the circle from the center toward the periphery.

In the accompanying drawing:—Figure 1, is a side view of my improved auger bit; Fig. 2, is an inverted plan view of Fig. 1; Figs. 3, 4 and 5, are sectional views showing the different steps in making the first cut with the bit; and Figs. 6, 7 and 8, are plan
20 views of Figs. 3, 4 and 5, respectively.

A is the auger bit having spirals made in the usual manner, *a'* is the point, tapered and screw threaded as shown, and *b* is the scribing cutter which is located at the end of one of the spirals and the point at the extreme outer edge of this cutter makes a circular cut in the wood, which prevents chipping of the walls of the hole to be cut. This
25 cutter is connected by a blunt section *b'* which acts as a guide for the chips and is not provided with a cutting edge; the cutting being done by a gouge cutter *c* which is made as shown, so that the part of the gouge near the center of the bit is substantially on the
30 line *x—x* drawn through the point of the cutter *b*, while the rounded portion *c'* of the gouge cutter is above the line, as indicated.

The bit made in accordance with my invention first makes a score by the cutter *b*
40 and makes a circular depression with the part of the gouge cutter *c* nearest the center, as illustrated in Fig. 3, and as the bit continues to penetrate the wood the gouge cuts more of a depression, as illustrated in Fig.

4, and, as illustrated in Fig. 5, the gouge 45 then cuts the full diameter of the depression left standing within the circular cut made by the cutter *b*.

It will be seen that a cutter made in accordance with my invention can be readily 50 formed, that there is only one cutting edge, and a cutting point. There is no chisel which is liable to split the wood and consequently the hole in the most delicate wood can be bored without chipping or splitting. 55

I claim:—

1. An auger bit having two spirals, a screw point, a cutting point at the outer end of one of the spirals, and a gouge cutter at the end of the other spiral, said gouge cutter 60 extending from the center bit to the outer edge.

2. An auger bit having two spirals, a center point, a cutter at the outer edge of one of the spirals, and a gouge cutter at the base of the other spiral, the inner portion of the gouge cutter being on a line with the point at the outer edge of the other spiral. 65

3. An auger bit having two spirals, and a screw threaded center point, one of the spirals terminating in a blunt end and having a scoring point at the extreme outer edge, the other spiral terminating in a gouge cutter, the inner portion of the gouge cutter being on a line with the scoring point, the outer 75 portion of the gouge cutter being above the line so that an annular cut will be made in the material and a concaved cut will be made in the material within the annular cut, the central cut being extended as the bit enters 80 the material.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JOB T. PUGH.

Witnesses:

WM. E. SHUPE,
WM. A. BARR.