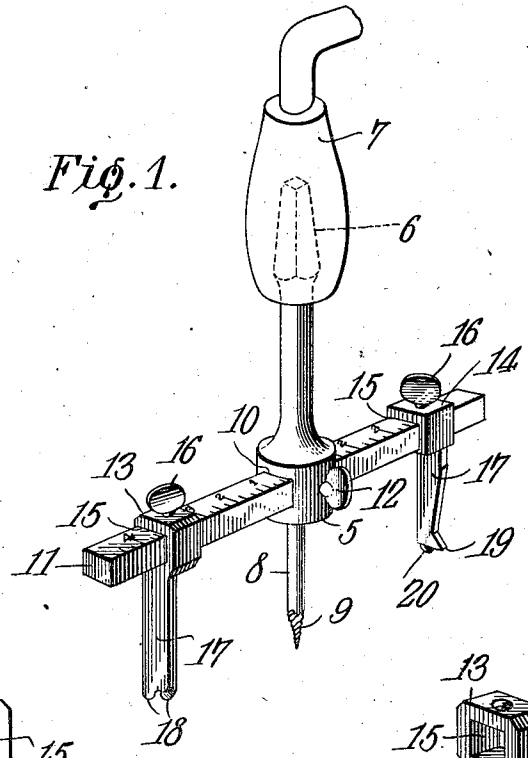
No. 860,020. PATENTED JULY 16, 1907.

J. H. DEARHOLT.

BORING TOOL OR AUGER.

APPLICATION FILED JULY 6, 1906.

Fig. 1.



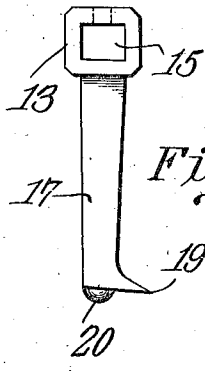


Fig. 3.

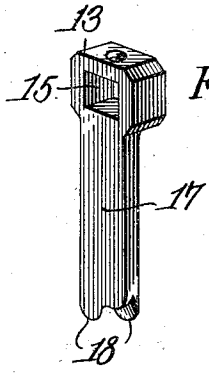


Fig. 2.

WITNESSES:

E. J. Stewart

L. P. Acker

John H. Dearholt,
INVENTOR.

By C. A. Snow & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN HENRY DEARHOLT, OF WONEWOC, WISCONSIN.

BORING-TOOL OR AUGER.

No. 860,020. Specification of Letters Patent. Patented July 16, 1907.

Application filed July 6, 1906. Serial No. 325,011.

To all whom it may concern:

Be it known that I, JOHN HENRY DEARHOLT, a citizen of the United States, residing at Wonewoc, in the county of Juneau and State of Wisconsin, have invented a new and useful Boring-Tool or Auger, of which the following is a specification.

This invention relates to boring tools or augers of that general class employed by carpenters, mill-wrights, mechanics and other persons, for cutting or boring holes in lumber and other material.

The object of the invention is to provide an auger or boring tool having a shank for attachment to an ordinary carpenters brace and provided with a transverse bar on which are slidably mounted a plurality of cutters capable of being adjusted longitudinally of the bar thereby to adapt the device for cutting holes or circular bodies of various sizes.

A further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency as well as to reduce the cost of manufacture.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a perspective view of a boring tool or auger constructed in accordance with my invention. Fig. 2 is a perspective view of one of the cutting tools detached. Fig. 3 is a side elevation of the mating cutter detached.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

The improved device comprises a cylindrical body portion 5 provided with a squared shank 6 for engagement with an ordinary carpenters brace, as indicated at 7. The body portion 5 is provided with a reduced extension 8 the free end of which is threaded at 9 and adapted to be screwed in the lumber or other material to be cut or severed, said body portion being provided with a transverse opening or recess 10 in which is mounted for sliding movement an adjustable transverse bar 11 having one face thereof graduated to indicate inches and fractions thereof, as shown, there being a clamping screw 12 threaded in the body portion and bearing against the bar for locking the latter in adjusted position.

Slidably mounted on the bar 11 on each side of the body portion 5 are cutting tools 13 and 14 each provided with a squared socket 15 adapted to receive the bar 11 and having clamping screws 16 threaded through the walls of the sockets and bearing against the bar for locking the cutters in adjusted position. The cutters 13 and 14 are provided with reduced shanks 17 one of which is formed with spaced depending cutting lips 18 preferably disposed one in advance of the other and having their inner faces convex so as to prevent the wood from clogging the cutters during the cutting operation and also to facilitate cleaning said cutters. The shank of the cutter 14 is formed with a terminal chisel face 19 preferably arranged at an angle to the longitudinal axis of the shank and provided with a depending lip 20 having its inner face convex, as shown, said chisel face being adapted to remove the wood between the grooves formed by the lips 18 of the cutter 13 when the tool is used for cutting holes, circular bodies and the like.

In operation the bar 11 is inserted in the recess 10 and clamped in position by the screw 12 after which the cutting tools are adjusted longitudinally on the bar 11 and locked in adjusted position by rotating the clamping screws 16. The threaded rod 8 is then partially screwed in the lumber and the tool rotated by manipulating the brace in the ordinary manner. If desired the cutter 13 may be removed and a pair of cutters similar to the cutter 14 may be positioned on the opposite ends of the bar 11 so that when the body portion is rotated the lips 20 will form a groove in the lumber while the chisels 19 will remove the wood between the grooves, in the manner before stated.

Having thus described the invention what is claimed is:

1. A boring tool comprising a body portion provided with a transverse recess and having a reduced extension the terminal of which is pointed and threaded, the side walls of the extension between the terminal threads and body portion being smooth and unobstructed, a graduated bar seated in said recess, cutters slidably mounted on the bar and adapted to register with the graduations, said cutters being provided with depending parallel cutting lips disposed one in advance of the other and having their inner faces convex, and clamping screws carried by the cutters and adapted to engage the bar for locking the cutters in adjusted position.

2. A boring tool comprising a body portion provided with a transverse recess and having a depending threaded extension, a horizontally disposed bar seated in said recess, a cutter slidably mounted on the bar on one side of the body portion and provided with a chisel face having a depending cutting lip, and a cutter slidably mounted on the bar on the opposite side of said body portion and provided with parallel depending cutting lips disposed one in advance of the other and having their inner faces convex.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN HENRY DEARHOLT.

Two witnesses:
A. P. GALE,
A. L. RHODES.