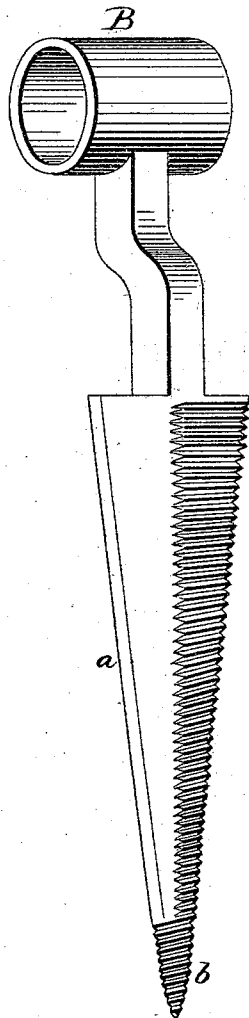


A. M. NORTON.

BUNG-BORER.

No. 177,742.

Patented May 23, 1876.



Witnessed.

A. H. Chumway
Clara Broughton

Aurelius M. Norton
By *Atty* *Inventor*

Wm. C. Miller

UNITED STATES PATENT OFFICE.

AURELIUS M. NORTON, OF HIGGANUM, ASSIGNOR TO ATWATER E. BROCKETT, OF BRANFORD, CONNECTICUT.

IMPROVEMENT IN BUNG-BORERS.

Specification forming part of Letters Patent No. **177,742**, dated May 23, 1876; application filed March 16, 1876.

To all whom it may concern:

Be it known that I, AURELIUS M. NORTON, of Higganum, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Bung-Borers; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent a perspective view.

This invention relates to an improvement in the article known to the trade as "bung-borers"—that is to say, a tapering borer or reamer.

This article is usually made of conical cylindrical form, divided axially, and with a screw-thread at the point, one edge of the body made sharp for cutting.

In the use of this instrument, so soon as the thread at the point has passed through the head of the barrel or thing being bored, the screw-thread ceases to draw, and the borer must then be forced by the person using it. The result is that, as this force must unavoid-

ably be irregular, it is very difficult to bore a round hole.

The object of this invention is to avoid this difficulty; and it consists in constructing the borer with the screw-thread continued on its rear or external surface, as more fully hereinafter described.

The borer is of the usual conical form, with the cutting-edge *a*, and with a socket, B, for the handle. The tip or point *b* is also threaded in the usual manner. This thread is continued up throughout the back of the borer, from the edge opposite the cutter, preferably about half-way around to the cutting-edge, as shown in the drawing. This thread follows the thread of the point, and continues to draw or feed the cut so long as the borer is turned.

I claim—

The herein-described bung-borer, having a screw-thread upon its convex surface, substantially as specified.

AURELIUS M. NORTON.

Witnesses:

CORNELIUS BRAINARD,
EDWARD D. GILBERT.