W. H. Deatrick.

Boring Mach.

No. 108,890. Patented Nov. 1, 1870.

Fig. 2.

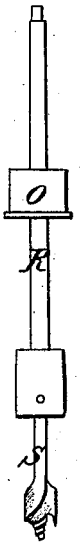
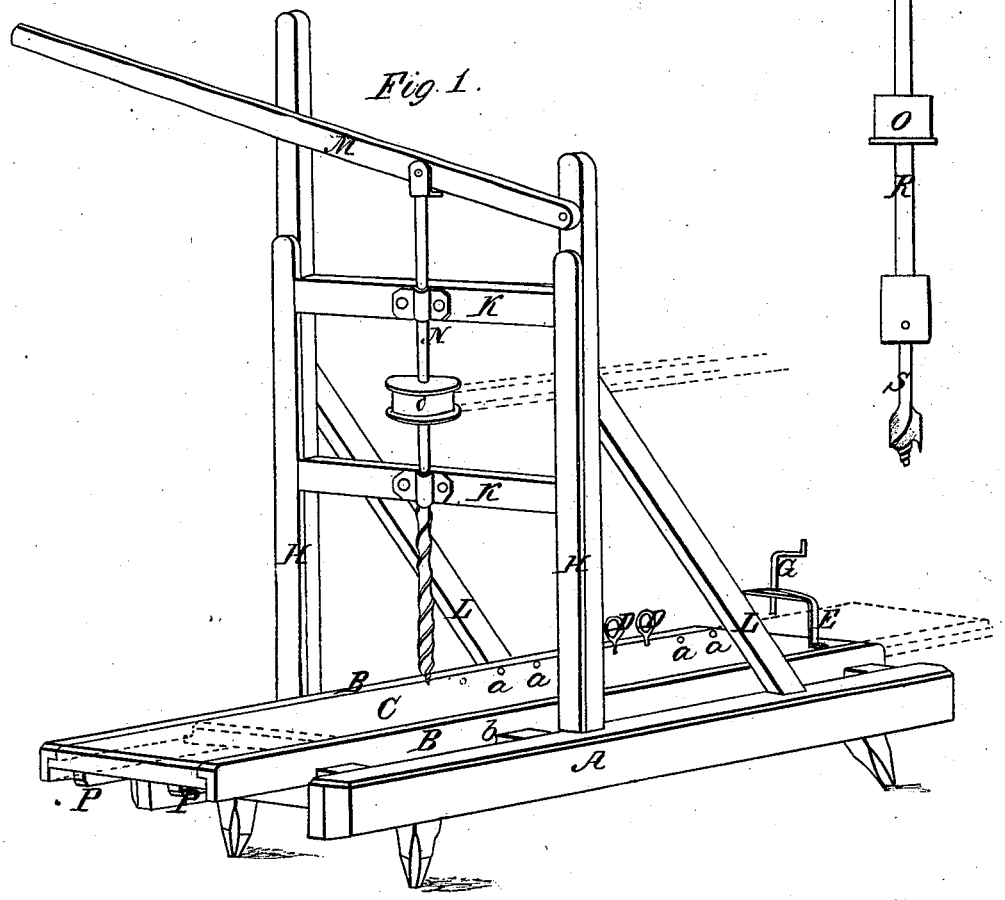


Fig. 1.



Witnesses;
R. J. Turner
F. A. Lehmann

Inventor;
Wm. H. Deatrick
per
Alexander Mason
Attys.

United States Patent Office.

WILLIAM H. DEATRICK, OF HEIDLERSBURG, PENNSYLVANIA.

Letters Patent No. 108,890, dated November 1, 1870.

IMPROVEMENT IN BORING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM H. DEATRICK, of Heidlersburg, in the county of Adams, and in the State of Pennsylvania, have invented certain new and useful Improvements in Machines for Boring Posts; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The object of this invention is to supply a machine for boring holes in fence posts, that is cheap, easily-operated and managed, and, at the same time, durable and simple in its construction; and

The invention consists in the construction and arrangement of the operating parts with each other, as that the object shall be fully obtained.

In the accompanying drawing—

Figure 1 represents a perspective view of my invention.

Figure 2 is a side elevation of the auger-shaft.

Letter A represents the frame of my machine, which may be of any desired shape or size, upon the top of which are placed the two guides B, extending from one end to the other.

C is a sliding carriage, upon which the post to be bored is placed, and securely held in one position during the operation of boring by means of the screw-clamp G E.

The carriage C freely slides between the guide-ways B.

On the top side of the platform, and longitudinally placed therein, is a series of holes, *a*, in which are placed stop-pins D D.

These stop-pins pass through the carriage, and extend below its under side far enough to strike against the cross-girt *b* in frame A, or other means which will stop the further reciprocation of the sliding carriage C in that direction.

By the use of the pins D D in holes *a a* the length of the mortise in the posts, as well as the spaces between the mortises, is easily determined.

Rising up from the sides of the frame are the two uprights H, which are joined together by the two cross-pieces K, and held in upright position by the braces L.

Pivoted to one of these uprights is the lever M, to which is attached the auger N, so that it can be raised and lowered to any desired point.

The upper end of this auger is secured to the lever in such a manner as to allow it to turn freely with the pulley O, around which the belt passes.

Extending along the frame, under the slide, there are placed the supports P, which prevent the slide from shaking or moving while the auger is in operation.

In case it should be desired to bore larger holes than can be done with the ordinary auger N, I remove that, and substitute the shaft R instead, which will hold any-sized bit.

In this shaft is placed a bit, S, which has been provided with a screw so as to enable it to bore the more readily.

Operation.

Having secured the post to be bored upon the carriage C in the proper position, and one of the pins D against the cross-girt under the carriage, the auger is put in revolution, and the first hole is bored. Pin D, that rests against the girt, is then taken out, and as many holes may be bored as desired in the distance the carriage C and post is reciprocated, till it is stopped by the next pin D striking against the girt, when the pin that is in the next succeeding hole is made to strike against the girt, and another hole is bored, leaving a space of the width desired between the last hole bored in the first mortise and the first one in the second, proceeding thus till the holes are all bored in the post for the mortises, and leaving the space unbored between the mortises.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The sliding carriage C, having holes *a a* and pins D D therein, and clamp G E thereon, in combination with the revolving sliding auger N, when constructed to operate in the manner shown.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of May, 1869.

WILLIAM H. DEATRICK.

Witnesses:

A. J. COVER,

ALLEN JAMESON.