H. D. Pennoyer.

Auger Handle.

No. 80,365. Patented July 28, 1868.

Fig. 1

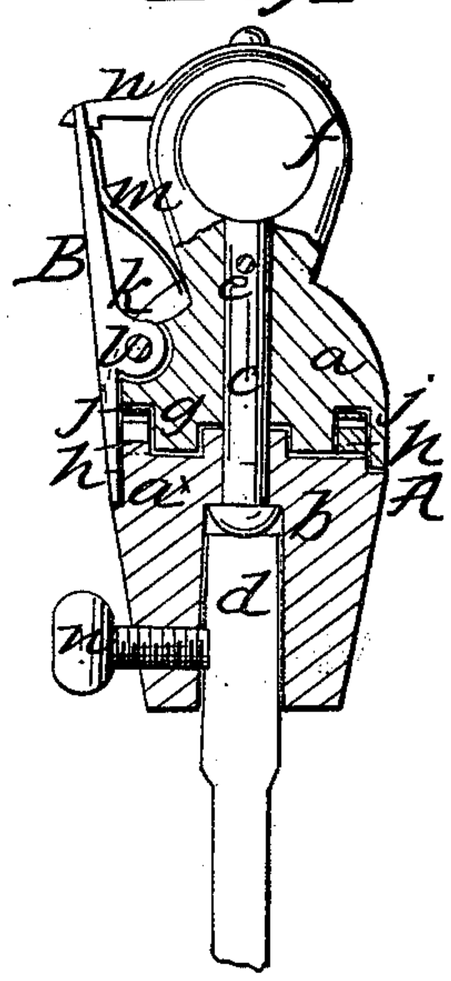


Fig. 2

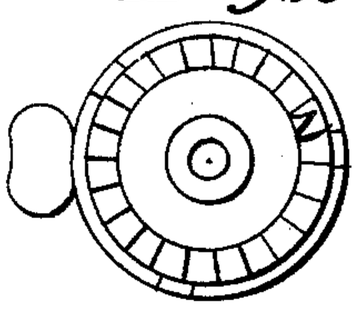
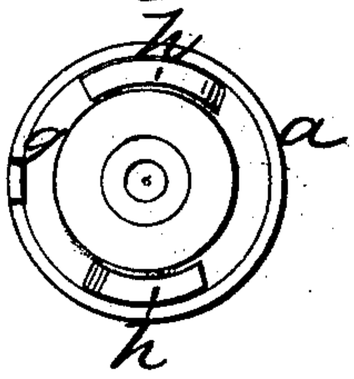


Fig. 3



Witnesses:

H. C. Ashkettos
Wm. A. Morgan.

Inventor:

H. D. Pennoyer
per Munn & Co
attorneys

United States Patent Office.

HOBART D. PENNOYER, OF ATHENS, NEW YORK.

Letters Patent No. 80,365, *dated July* 28, 1868.

IMPROVEMENT IN AUGER-HANDLES.

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, HOBART D. PENNOYER, of Athens, in the county of Greene, and State of New York, have invented a new and improved Auger-Top; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and useful improvement in augers, and it consists in providing a top-piece to fit on the upper end of the auger-shank and receive the handle, said top-piece being composed of two parts, and provided respectively with pawls and a ratchet, as hereinafter fully shown and described, whereby the auger may be turned and holes bored in close proximity to any vertical fixtures, where an ordinary fixed handle cannot be turned, and at the same time admit of the handle being adjusted and turned as usual in places where there is room to allow it.

In the accompanying sheet of drawings—

Figure 1 is a vertical central section of my invention.

Figure 2, a plan or top view of the lower part of the same.

Figure 3, an under face view of the upper part of the same.

Similar letters of reference indicate corresponding parts.

A represents what I term the auger-top, which is composed of two parts, *a b*, connected together, one above the other, by a vertical central bolt, *c*, which passes up through a central square hole, *d*, in the lower part, *b*, the head of the bolt being at the inner end of the hole *d*, the opposite end of the bolt being secured in the upper end of the part *a* by a pin, *e*, as shown clearly in fig. 1.

On the upper end of the part *a* there is a ring, *f*, to receive the auger-handle.

In the under side of the upper part, *a*, of the top, A, there is an annular concentric groove, *g*, in which two pawls, *h h*, are fitted, and in the upper surface of the lower part, *b*, there are ratchet-teeth *i*, for the pawls *h h* to catch against, said pawls having springs, *j*, bearing upon them, to keep them engaged with the ratchet.

By means of this pawl-and-ratchet arrangement the upper part, *a*, of the top is allowed to turn in one direction, (to the left,) without turning the lower part, *b*; but when *a* is turned to the right, *b* will turn with it, as the pawls *h h* then catch against the ratchet-teeth *i*.

When necessary, *a* and *b* are connected, so that both will turn when the top is turned either to the right or left, by means of a spring-catch, B, which is composed of a bar, *k*, pivoted to the upper part, *a*, at *l*, and having a spring, *m*, at its upper part, which has a tendency to press the lower end of *k* into any of a series of notches, $a^{\times}$, in *b*, a catch, *n*, which is secured to the top of the ring *f*, holding the lower end of *k* into or out from the notches $a^{\times}$.

The upper end of the shank of the auger (shown in red) is fitted in the square hole *d* in *b*, and secured therein by a set-screw, *n*, (see fig. 1.)

From the above description, it will be seen that when there is room, the auger-handle may be fitted in the ring *f*, so as to project at equal distances from each side of the same, the upper part, *a*, secured to the lower part, *b*, by having the lower end of the bar *k* fit in one of the notches $a^{\times}$, and the handle turned as usual, in order to bore a hole; but in case there is not room to turn the handle entirely around, the lower end of the bar *k* may be kept free, or out from the notches $a^{\times}$ in *b*, by pressing the upper end of *k* inward towards the ring *f*, the auger-handle drawn nearly out from the ring, so that one end will fit therein, and the auger turned by the ratchet-attachment, the handle being moved first in one direction, and then in the other, and turning the auger when moved from right to left, but not when moved in the reverse direction.

This device may be made at a small cost, and will prove to be a very convenient attachment for augers, as it does not interfere in the least with the ordinary mode of operating or turning them, and will admit of augers being turned in places where they could not be with the ordinary handle-attachment.

I claim as new, and desire to secure by Letters Patent—

The auger-top, constructed, as described, of the parts *a b*, secured together by the bolt *c*, and provided respectively with the concentric spring-pawls *h* and ratchet-teeth *i*, the upper part, *a*, having the loop *f* and the spring-catch B, and the lower part recessed, to receive the shank of the auger, all arranged and operating as described, for the purpose specified.

HOBART D. PENNOYER.

Witnesses:

HERMAN F. DERNELL,

N. E. EDMONDS.