

G. N. STEARNS.  
Hollow Auger.

No. 201,064.

Patented March 5, 1878.

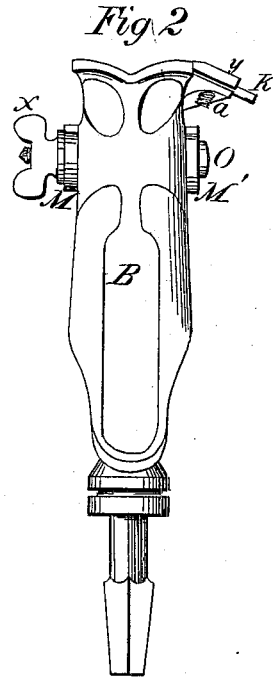
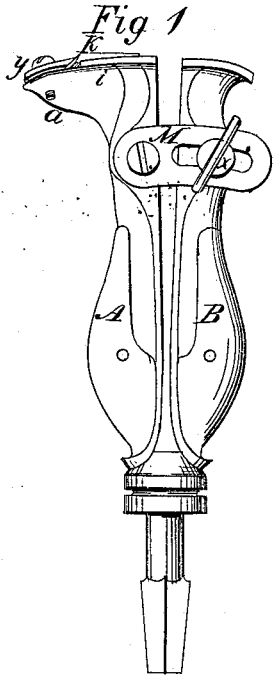


Fig. 3.

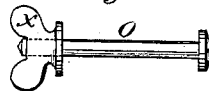


Fig. 4.

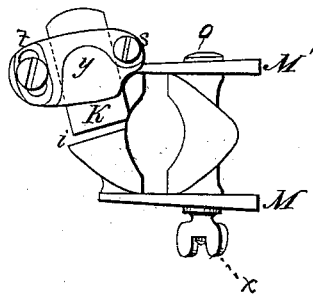


Fig. 5.



WITNESSES

R. H. Whennan

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# UNITED STATES PATENT OFFICE.

GEORGE N. STEARNS, OF SYRACUSE, NEW YORK.

## IMPROVEMENT IN HOLLOW AUGERS.

Specification forming part of Letters Patent No. 201,064, dated March 5, 1878; application filed April 26, 1876.

*To all whom it may concern:*

Be it known that I, GEORGE N. STEARNS, of Syracuse, New York, have invented Improvements in Hollow Augers, of which the following is a specification:

In my Patent No. 130,826, for "improvement in hollow augers," the barrel is made in two sections, to one of which, A, there is a strap, M, affixed, having a slot in it, through which a set-screw passes into section B, to hold the jaws together. I now find that a single strap, as therein described, is insufficient, allowing the parts to spring. I have therefore improved this part of my original invention, as shown in the annexed drawings, in which I have applied a second strap, M', Figures 1, 2, and 4, through which and section B, I pass a screw-bolt, O, (shown detached at Fig. 3,) the head of which bears against M', and the nut *x* against the strap M, thus fastening both straps with one screw, and thus holding the jaws firmly in place.

On the outer end or face of section A there is a projection or cutter-seat, *a*, with a throat or opening, *i*, to discharge the shavings from the cutter K. This cutter is bev-

eled on both sides, so that it can be reversed, and wear either side up alternately, to equalize it. This cutter rests upon the seat *a*, and is held down by a cap, *y*, (shown detached in Fig. 5,) having a recess in it, into which the cutter-shank fits, and a hole at *s*, a slot at *t*, through which screws pass to hold the cutter securely down upon its seat *a*.

The screw *s* is the pivot upon which the cap swivels to properly set the cutter, the slot at *t* giving it the necessary play for that purpose, and the screw therein holds it firmly in position when set.

Having thus fully described my improvements in hollow augers, I claim as my invention—

The cutter K, attached to the hollow auger by means of the pivoted cap *y*, constructed, arranged, and combined as and for the purposes herein described.

In witness whereof I have hereto set my hand.

G. N. STEARNS.

In presence of—

P. B. MCLENNAN,  
J. J. GREENOUGH.