

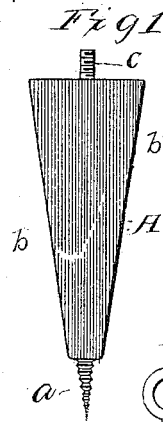
(No Model.)

W. K. MOTTRAM & J. A. MUNDY.

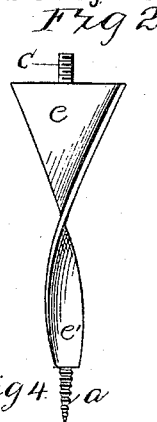
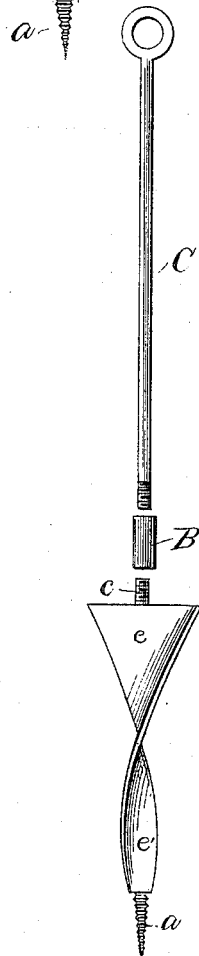
POST HOLE AUGER.

No. 302,764.

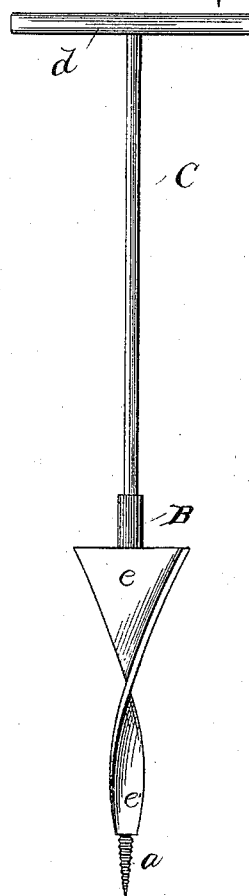
Patented July 29, 1884.



*Fig 3.*



*Fig 4.*



WITNESSES:

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INVENTORS

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# UNITED STATES PATENT OFFICE.

WILLIAM K. MOTTRAM AND JAMES A. MUNDY, OF OTTAWA, KANSAS.

## POST-HOLE AUGER.

SPECIFICATION forming part of Letters Patent No. 302,764, dated July 29, 1884.

Application filed March 3, 1884. (No model.)

*To all whom it may concern:*

Be it known that we, WM. K. MOTTRAM and JAMES A. MUNDY, citizens of the United States, residing at Ottawa, in the county of Franklin and State of Kansas, have invented certain new and useful Improvements in Post-Hole Augers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has relation to improvements in earth-augers for digging post-holes; and it consists in the peculiar construction and novel arrangement of devices, as will be hereinafter more fully set forth, and particularly pointed out in the claim appended.

15 Heretofore post-hole augers have been constructed with the blade formed from a plate of metal tapering on its side edges to near its lower end, and twisted so as to form spiral wings, with the handle secured to the upper middle portion of the blade by means of bolts or rivets.

25 The object of our invention is to improve a device of this character by making its parts easily removable, so that should any of them become broken or injured they may be readily removed and replaced by others without impairing the validity of the device, and also to produce an article which will perform the operation of boring post-holes more expeditiously than those at present in use.

30 In the accompanying drawings, in which similar letters of reference indicate corresponding parts in the several figures, Figure 1 is a representation of a face of the blade before twisting, and Fig. 2 is a view of the same after being twisted a half-revolution, both having the threaded or gimlet point and the connecting-stem. Fig. 3 is a view of all the parts disconnected, and Fig. 4 is a view of the device as complete.

35 Referring by letter to the said drawings, A indicates the boring-blade; B, the socket for connecting the handle to the blade, and C the handle. The blade, as shown in Fig. 1, is formed of a plate of suitable metal, having its longitudinal edges *b* sharpened and tapering or inclining from their upper ends to near the base of the gimlet-point *a*. The upper edge of this blade is provided centrally with a vertical stem or shank, *c*, which may

be threaded externally to receive the internally-threaded socket B, the threads therein being so arranged as to receive the lower threaded end of the handle C in connecting it to the blade. The handle may be of gas-pipe or other suitable material, and provided with a cross-bar, *d*, at its upper end, by which to turn the device. The blade, after being provided with the screw or gimlet point and the socket-shank, which may be formed integral therewith, is given a quarter-revolution twist longitudinally. The blade is bent midway, or thereabout, between its upper and lower ends, so that the upper and lower portions, *e* and *e'*, will act as excavators, while the gimlet-point will serve to keep the auger to its work.

This device is simple in construction, and may be manufactured at a very small expense.

40 We are aware that it is not new to form an earth-auger from a tapering strip of metal twisted near its lower end and provided at its upper end with a threaded shank; and that a similar blade has been twisted and notched at its lower end to present the appearance of a swallow-tail; and also that a spirally-twisted blade has been provided at its upper end with a threaded shank or stem to receive a handle, and therefore do not claim any of these constructions broadly.

45 Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

As an improved article of manufacture, the post-hole auger herein described, consisting of a tapering strip of sheet metal twisted about midway its length, so as to form an upper enlarged portion, *e*, and a lower reduced portion, *e'*, the wings of which are curved at right angles to each other, the lower end of the lower portion having the gimlet-point *a*, and the upper end of the upper portion having a vertically-threaded projection, *c*, to receive a handle, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

WM. K. MOTTRAM.  
JAMES A. MUNDY.

Witnesses:

S. DEVORE,  
H. H. COMFORT.