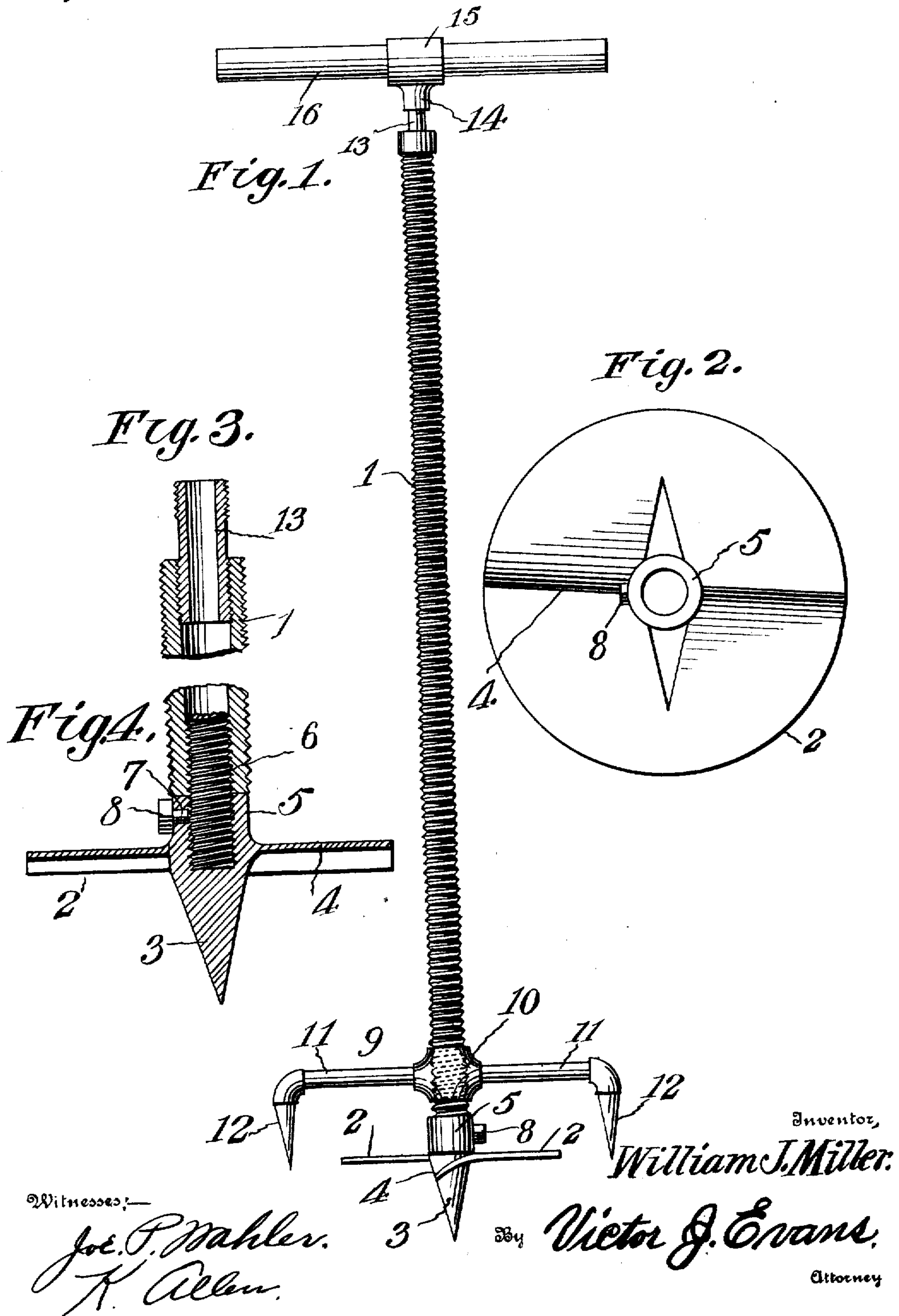


W. J. MILLER.
POST HOLE AUGER.
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905,735.



UNITED STATES PATENT OFFICE.

WILLIAM J. MILLER, OF BUFFALO, NEW YORK.

POST-HOLE AUGER.

No. 905,735.

Specification of Letters Patent.

Patented Dec. 1, 1908.

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To all whom it may concern:

Be it known that I, WILLIAM J. MILLER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Post-Hole Augers, of which the following is a specification.

This invention relates to earth augers, and the object of the invention is to provide a simple device of this character, provided with a holding means having spurs adapted for insertion within the ground, and provided with a central internally threaded coupling adapted for engagement with the threads upon a standard carrying the auger blades and the handle by which the auger is rotated, thus providing means for boring holes in the ground with a very slight amount of physical exertion.

Another object of the invention is to provide a threaded standard having a holding device adapted for insertion in the earth, the standard being provided with means whereby an auger blade and auger handle of the ordinary construction may be readily applied thereto.

With these and other objects in view the invention resides in the novel construction of elements and their arrangement in operative combination as will hereinafter be fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of an earth auger constructed in accordance with my invention. Fig. 2 is a top plan view of the bit. Fig. 3 is a detail sectional view of the upper portion of the standard and its reduced extension, by which the standard is connected with a handle of the ordinary construction. Fig. 4 is a detail sectional view of a portion of the auger, illustrating the manner by which the auger is connected with the standard employed in my invention.

In the accompanying drawings the numeral 1 designates the standard employed with my invention. The standard is preferably tubular in cross section, and is provided with threads upon its outer surface running the entire length thereof. The upper and lower portions of the tubular standard 1 are also provided with internal threads extending a suitable distance within the bore of the standard.

Positioned upon the lower extremity of the standard 1, is an earth auger 2, of the usual construction, comprising a point 3

and blades 4, and having the upstanding collar 5 provided with a threaded recess, coinciding with the threaded lower portion of the standard 1. Connected with the threads of the collar 5 and the internal threads of the lower portion of the standard 1 is a suitable threaded member 6, adapted to secure the auger and the standard together. The collar 5 is provided with a suitable threaded perforation 7, adapted for the reception of a bolt 8 which bears against the member 6, and effectively retains the auger in position upon the standard 1.

Positioned upon the standard 1 is a holding device 9, comprising a central threaded coupling 10, adapted for engagement with the threads of the standard 1, and provided with diametrically opposite extending arms 11 having downwardly projecting, right angular spurs 12.

The upper internal threads of the standard 1 are adapted for the reception of a threaded extension 13, the free end of which being adapted for engaging the threaded nipple 14 provided upon a collar or strap 15 in which is positioned a handle 16, adapted to extend upon either side of the collar 15.

The operation of my device is as follows: The holding device is revolved until it is positioned at the lower extremity of the standard 1, and against the collar 5 of the auger. The point 3 of the auger is inserted within the earth, as are the spurs 12 of the holding device. The operator places his foot upon the extensions 11 of the holding device to prevent them from moving, and the handle 16 is turned causing the threaded standard 1 to revolve within the threaded coupling 10 of the holding device. When the spurs 11 are sufficiently embedded within the earth the descent of the auger bit, it is no longer necessary for the operator to hold them in position, and the handle may be easily turned within the coupling 10 and the holding device forms an effective support for the standard.

With a device constructed as above described it will be seen that an auger may be driven into the earth with a very small amount of physical exertion, as the pressure of the earth is effectively overcome by the threaded connection between the standard 1 and the coupling 12 of the holding device. It will be still further seen that my device is applicable to earth augers and handles therefor now in common use, that it is extremely

simple in construction, durable, and effective in operation.

Having thus fully described the invention what is claimed as new is:

5 In a device of the character described, a tubular standard provided with external threads, internal threads near both of its ends, a threaded extension engaging the internal threads at the opposite portion of the
10 standard, a collar secured to said extension, a handle carried by said collar, a holding device upon the standard, said holding device comprising a central threaded portion and extensions having downwardly extending

spurs, a threaded member adapted to engage 15 the lower internal threads of the standard, and an earth auger having a threaded collar adapted to engage the threaded member, the collar of the auger having a right angular threaded orifice, and a threaded element 20 adapted to engage the orifice and contact with the threaded member within the collar.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM J. MILLER.

Witnesses:

Mrs. W. J. MILLER,
JULIA M. MILLER.