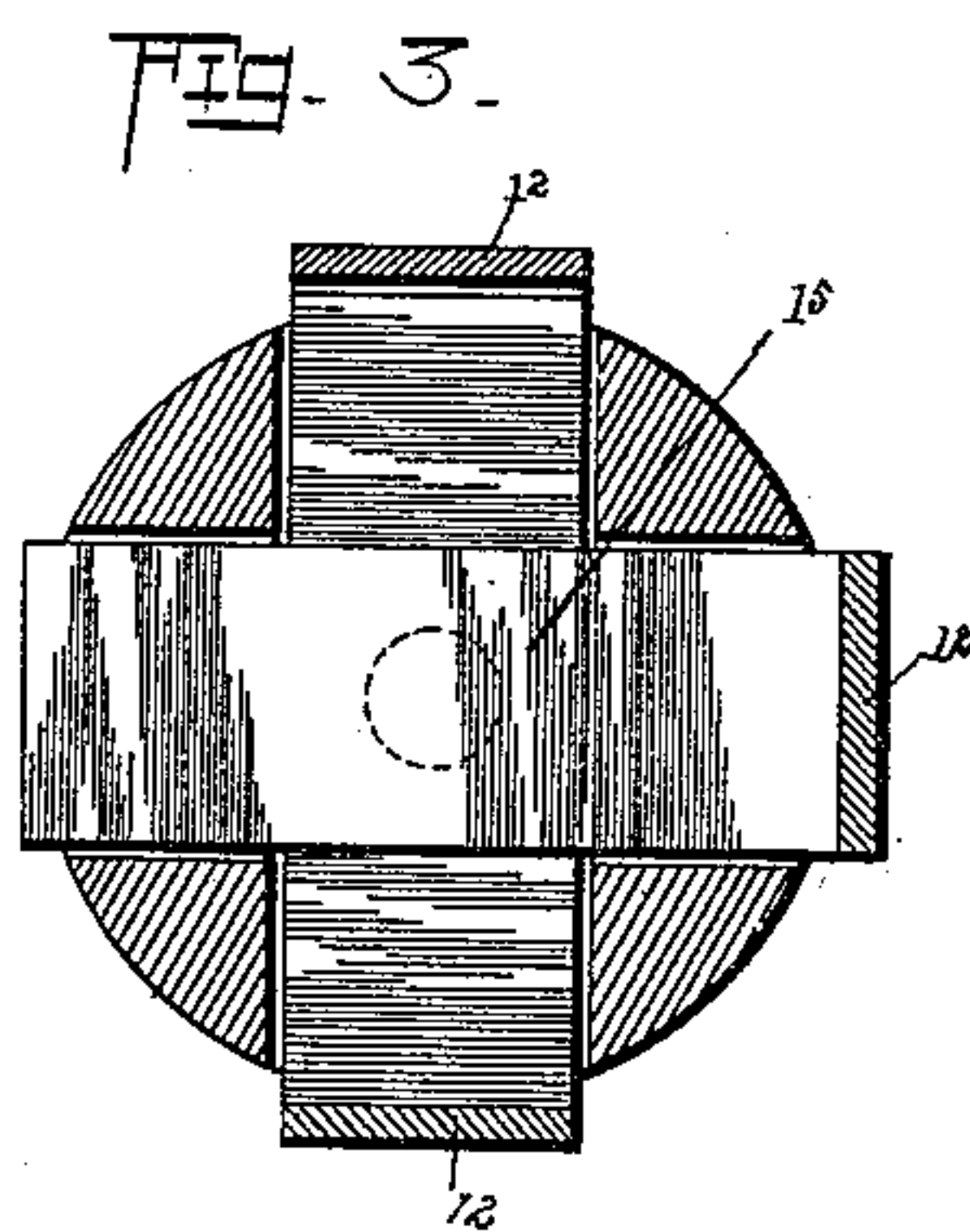
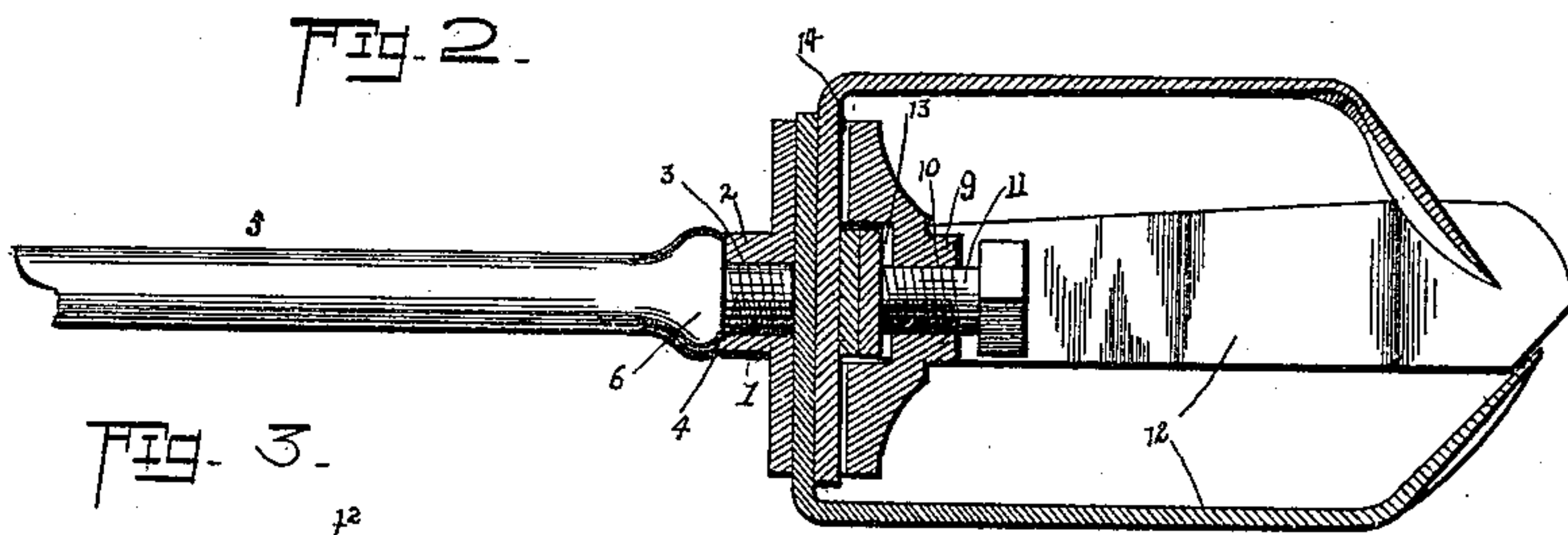
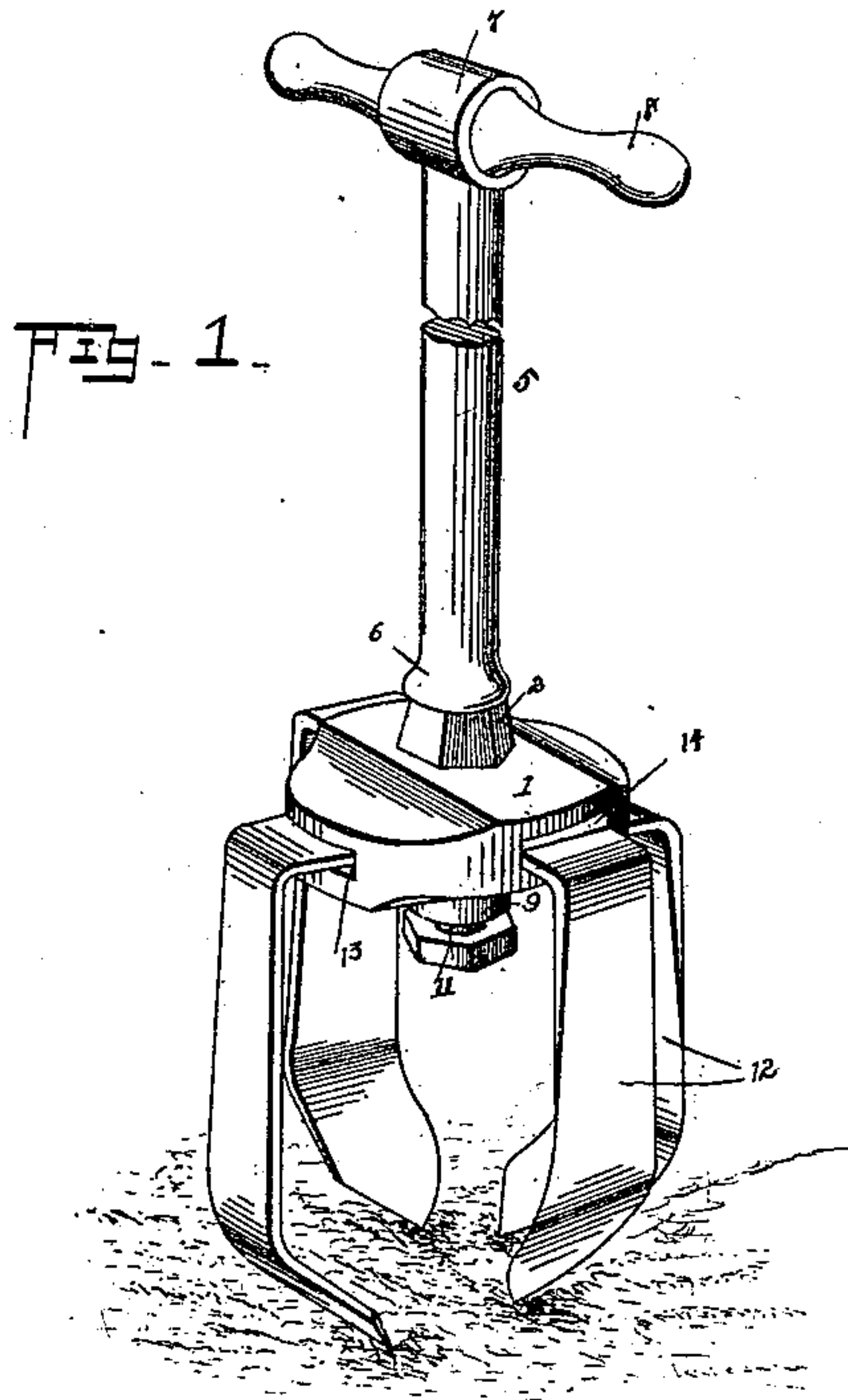


(No Model.)

G. FRY.
POST HOLE AUGER.

No. 438,760.

Patented Oct. 21, 1890.



Witnesses

E. S. Duwall

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

GEORGE FRY, OF HOLDEN, MISSOURI.

POST-HOLE AUGER.

SPECIFICATION forming part of Letters Patent No. 438,760, dated October 21, 1890.

Application filed July 26, 1890. Serial No. 360,039. (No model.)

To all whom it may concern:

Be it known that I, GEORGE FRY, a citizen of the United States, residing at Holden, in the county of Johnson and State of Missouri, have invented a new and useful Post-Hole Auger, of which the following is a specification.

The invention relates to improvements in post-hole augers.

The object of the present invention is to simplify and improve the construction of post-hole augers and enable the blade to be readily adjusted for boring various-sized holes.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a post-hole auger constructed in accordance with this invention. Fig. 2 is a central longitudinal sectional view. Fig. 3 is a transverse sectional view.

Referring to the accompanying drawings, 1 designates a head constructed of metal and approximately circular, and provided on its upper face with a centrally-arranged polygonal projection 2, having a central threaded opening 3, in which is engaged the lower threaded end 4 of a stem 5. The stem 5 is provided at its lower end with an annular shoulder 6, which is arranged at the top of the threaded portion and engages the central projection 2 and prevents the stem entering the head too far. The upper end of the stem is provided with a cylindrical eye 7, in which is arranged a handle 8, by which the auger is operated. The lower face of the head 1 is provided with a centrally-arranged circular projection 9, which is provided with a threaded opening 10 to receive a set-screw 11, arranged to engage auger-blades 12, having their upper ends bent horizontally or at right angles and arranged in horizontal slots 13 and 14. The horizontal slots 13 and 14 extend transversely

through the head 1 and are arranged at right angles to each other and in slightly different planes, the upper slot 14 having its bottom below the top of the lower horizontal slot 13, whereby the slots communicate at the center of the head, thereby bringing the horizontal portions 15, of the blades 12 into contact with one another and enabling all the blades to be secured and rendered adjustable by the single set-screw 11. The lower ends of the blades are bent inward and pointed in the usual manner to construct an auger-point.

The head 1 is constructed of a single piece of metal and the blades are all adjusted by the single set-screw 12, and it will be seen that the post-hole auger is simple and inexpensive in construction, easily handled, and readily adjusted for any sized hole.

Having described my invention, what I claim is—

In a post-hole auger, the combination of the head 1, constructed of a single piece of metal and provided with the horizontal slots 13 and 14, arranged at right angles to each other and communicating with each other at the center of the block, said block being provided on its upper and lower faces with centrally-arranged interiorly-threaded projections, the blades 12, having their upper ends 15 bent at right angles and arranged in the horizontal slots 13 and 14, the set-screw 11, engaging the threaded opening in the lower face of the block to secure the blades, and the threaded stem having its upper end provided with a handle and its lower end engaging the threaded opening in the upper face of the block, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE FRY.

Witnesses:

J. H. HEWES,
H. W. BOXMEYER.