

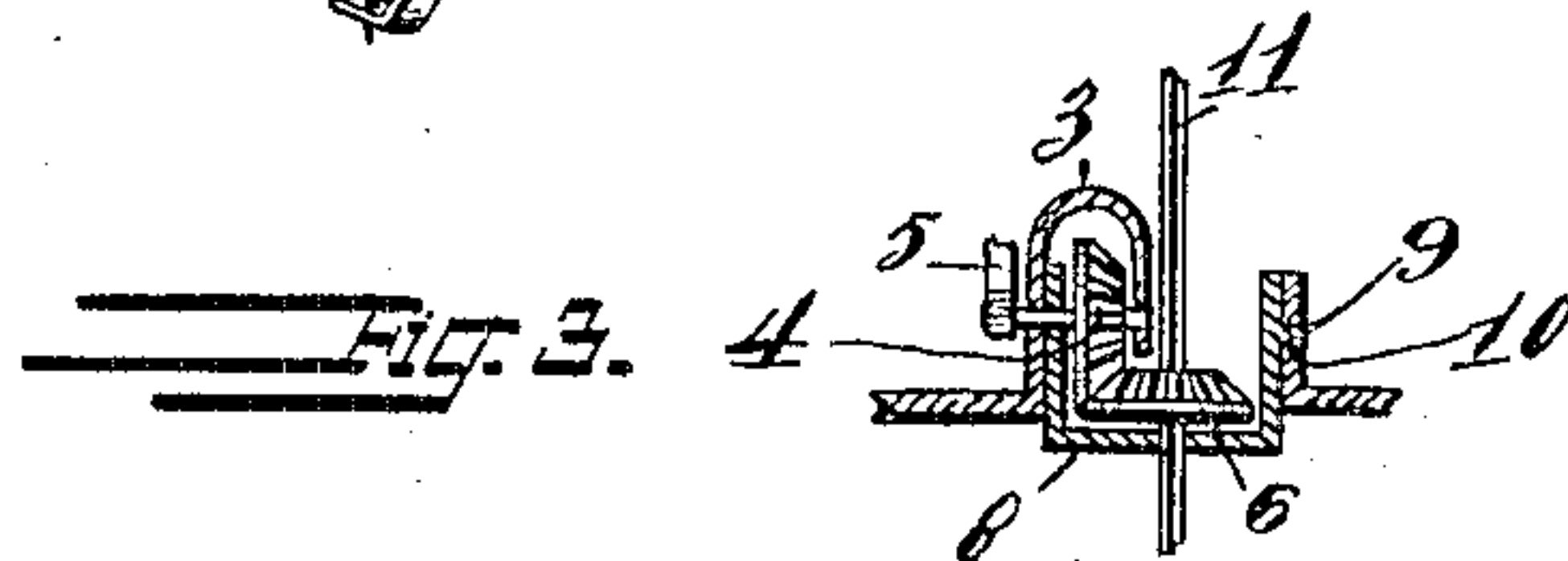
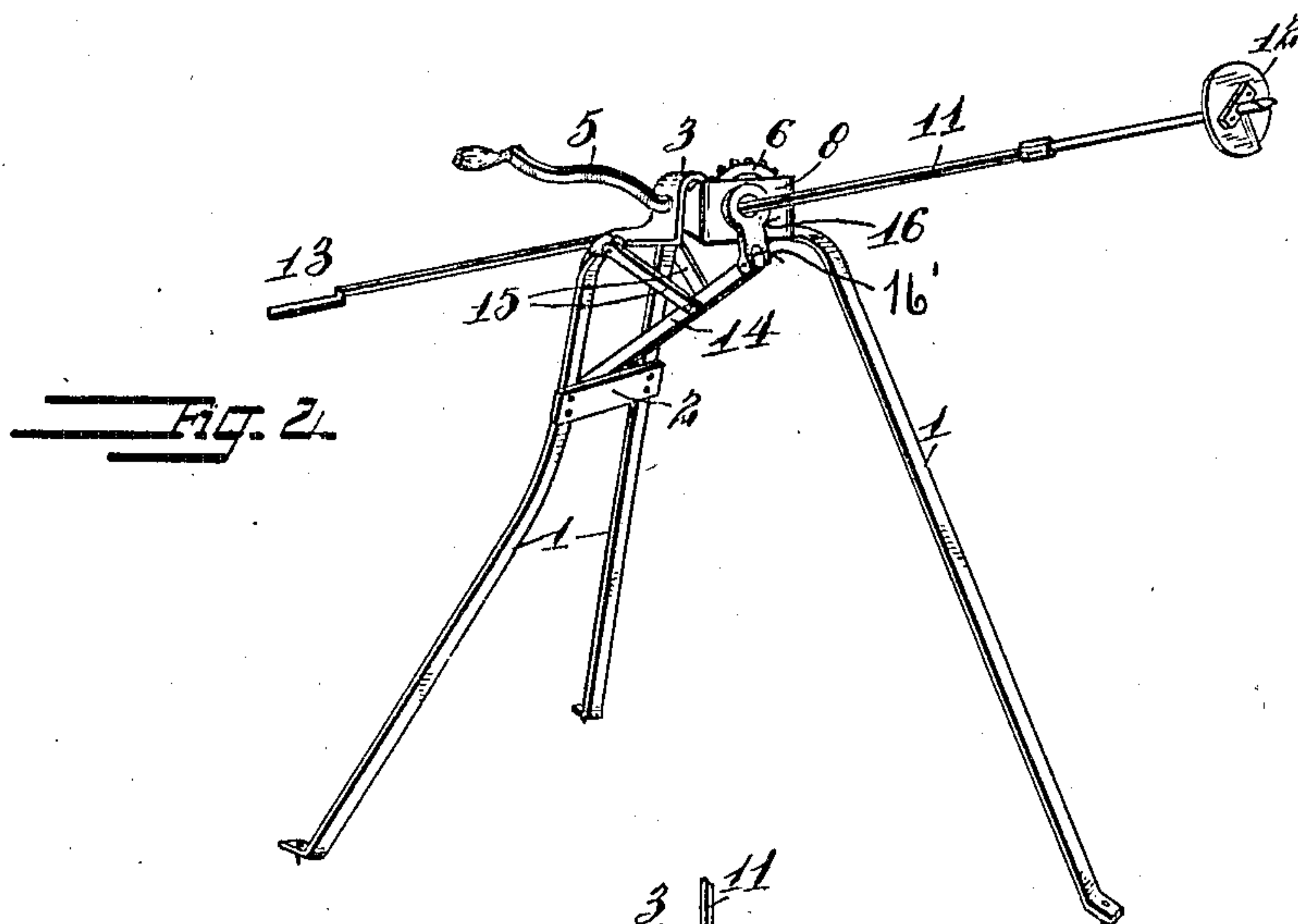
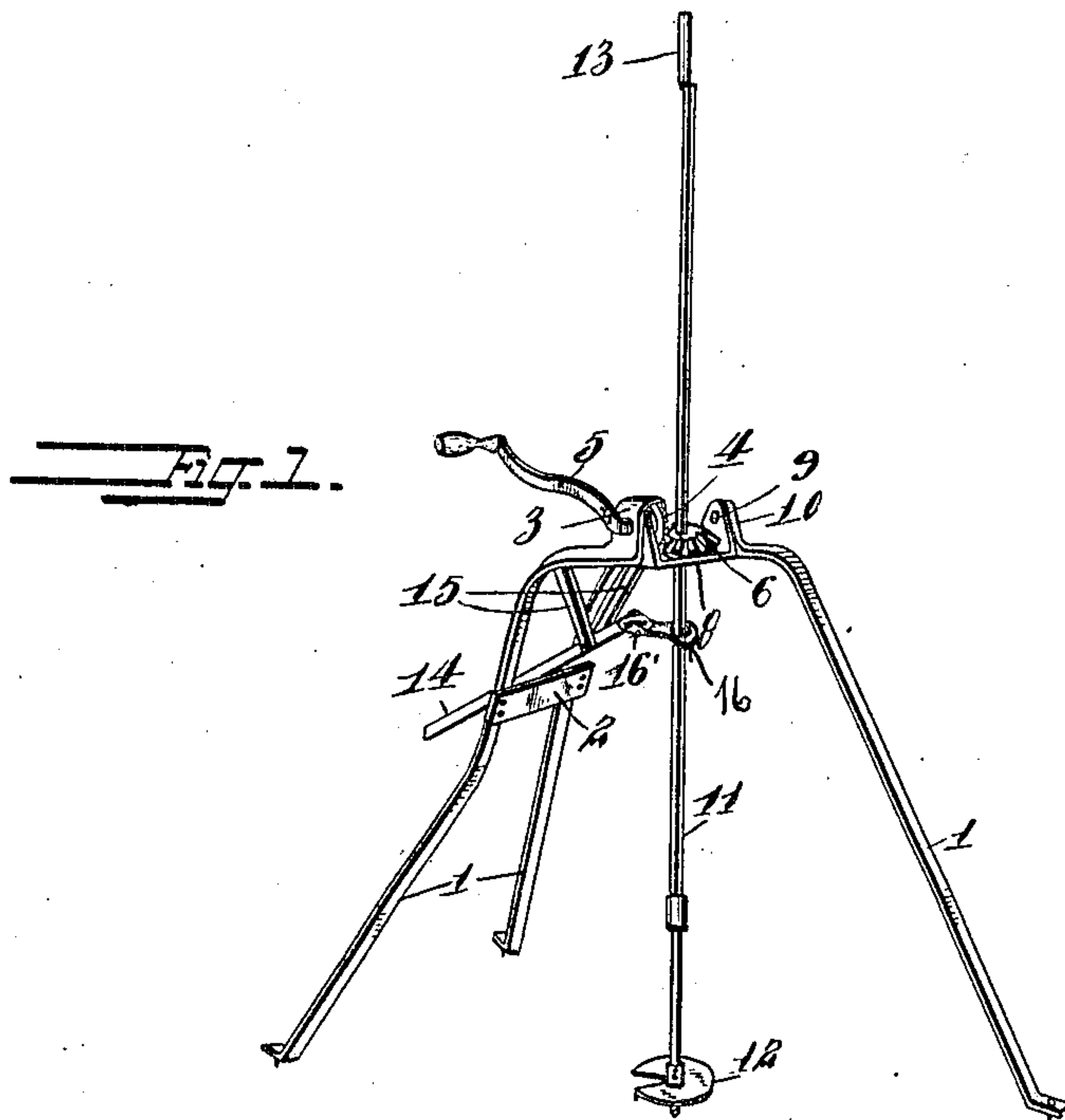
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PATENTED FEB. 19, 1907.

R. M. TRUMBULL & J. VOLZ.

POST HOLE AUGER.

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Witnesses
Spelzer & Murray
C. H. Griesbauer

Inventor
R. M. Trumbull & Jonathan Volz.

By *A. B. Wilson & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

ROLLIN M. TRUMBULL AND JONATHAN VOLZ, OF HILDRETH,
NEBRASKA.

POST-HOLE AUGER.

No. 844,634.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed July 19, 1906. Serial No. 326,894.

To all whom it may concern:

Be it known that we, ROLLIN M. TRUMBULL and JONATHAN VOLZ, citizens of the United States, residing at Hildreth, in the county of Franklin and State of Nebraska, have invented certain new and useful Improvements in Post-Hole Augers; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to post-hole augers; and one of the principal objects of said invention is to provide means whereby the auger may be quickly withdrawn from the hole and discharged of its contents.

Another object is to provide a device of this character which will be simple in construction, efficient in use, and quick and reliable in operation.

These and other objects are attained by means of the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a post-hole auger made in accordance with our invention, the auger being in a vertical position. Fig. 2 is a similar view of the auger withdrawn from the post-hole and placed in position to discharge the contents of the auger-bit, and Fig. 3 is a detail section of the operating mechanism.

Referring to the accompanying drawings for a more particular description of our invention, the numeral 1 designates the supporting-legs of the post-hole auger, there being, as shown, three legs, two of which are connected by a cross bar or brace 2.

Journaled in a yoke 3, extending upward from the legs, is a beveled gear 4, and a crank-handle 5 is connected to the shaft of said beveled gear. A beveled gear 6 is adapted to mesh with the beveled gear 4 and is supported upon a stirrup 8, with one end pivoted at 9 to a lug 10, extending upward from one of the legs, and its other end hung upon the shaft of the beveled gear 4. Extending through and opening in the beveled gear 6 is an auger-shaft 11, having a bit 12, of the usual or any suitable construction, for the purpose of boring post-holes, and a handle 13 may be provided upon the outer end of the auger-shaft.

A lever 14 is pivotally connected to a pair of links 15, which are pivoted to the supporting-legs. This lever 14 is connected, by

means of a clutch 16, to the shank of the auger, said clutch being preferably in the form of a ring-clutch having a lateral arm 16', pivotally connected to the lever and adapted to clamp the auger-shank when the parts are in proper relative position.

In boring post-holes with our auger after the hole has been bored to the required distance the auger may be quickly withdrawn and tilted to the position shown in Fig. 2 to discharge the dirt or contents of the auger-bit, as will be understood, the lever being swung to the position shown in Fig. 2 and the handle of the auger-shank being grasped to facilitate this operation.

From the foregoing it will be obvious that a device constructed in accordance with our invention will facilitate the boring of post-holes and that the device is simple in construction, strong and durable, and can be quickly placed in position and operated.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A post-hole auger comprising a supporting-frame, a tilting member pivotally mounted thereon, an auger-shank passing through said tilting member and having a bit, and a lever connected with said shank for tilting it out of vertical position.

2. A post-hole auger comprising a supporting-frame, a tilting member pivotally mounted thereon, an auger-shank passing through said tilting member and having a bit, a clutch mounted on said shank and a lever pivotally connected with said clutch and with said frame.

3. A post-hole auger comprising a supporting-frame, an auger mounted to move vertically within the frame, beveled gears for rotating said auger, a pivoted stirrup through which the auger-shank passes and a lever connected to the auger-shank for tilting it out of a vertical position to discharge the dirt from the bit, substantially as described.

4. In a post-hole auger, a supporting-stand, a stirrup pivotally connected to said stand, a beveled gear mounted within said stirrup, a post-hole-auger shank passing

through said stirrup and gear, a beveled
operating-gear mounted to mesh with said
shank-carrying gear, means for rotating said
operating-gear, and means for tilting said
5 shank from a vertical position to a position to
discharge the dirt from the bit.

5. A post-hole auger comprising a sup-
porting-frame, a tilting member pivotally
mounted thereon, an auger-shank passing
10 through said tilting member and having a
bit, a ring-clutch slidably mounted on said
shank and having a lateral arm and a lever
pivotally connected with said arm.

6. A post-hole auger comprising a sup-
15 porting-frame, a tilting member pivotally

mounted thereon, an auger-shank passing
through said tilting member and having a
bit, a ring-clutch slidably mounted on said
shank and having a lateral arm and a lever
pivotally connected with said arm and a 20
link pivotally connected with said lever and
with said supporting-frame.

In testimony whereof we have hereunto
set our hands in presence of two subscribing
witnesses.

ROLLIN M. TRUMBULL.
JONATHAN VOLZ.

Witnesses:

W. S. MARR,
H. S. KIRKBRIDE.