

No. 778,534.

PATENTED DEC. 27, 1904.

W. N. ECKLE.
CRANE.

APPLICATION FILED MAY 31, 1904.

Fig. 1.

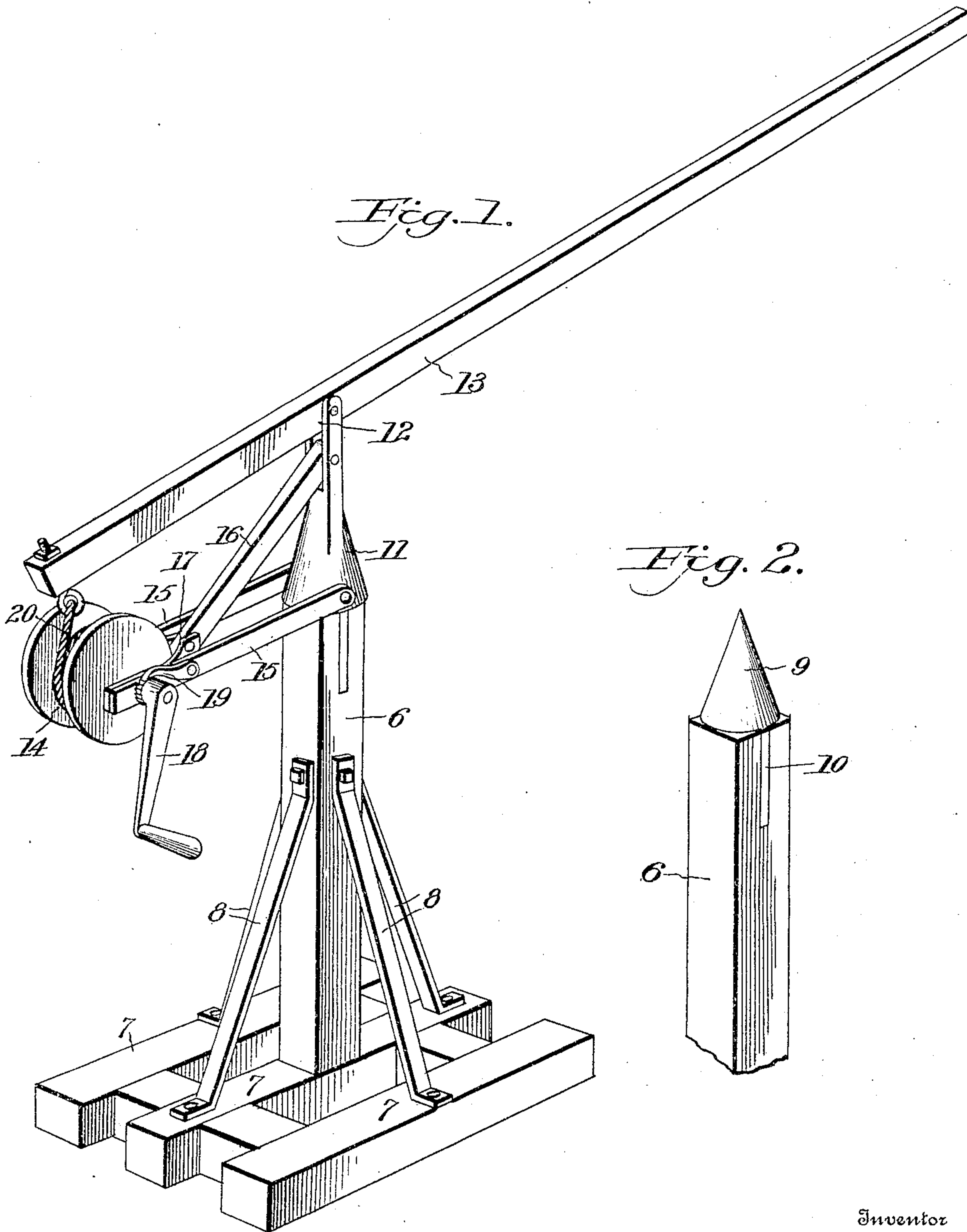
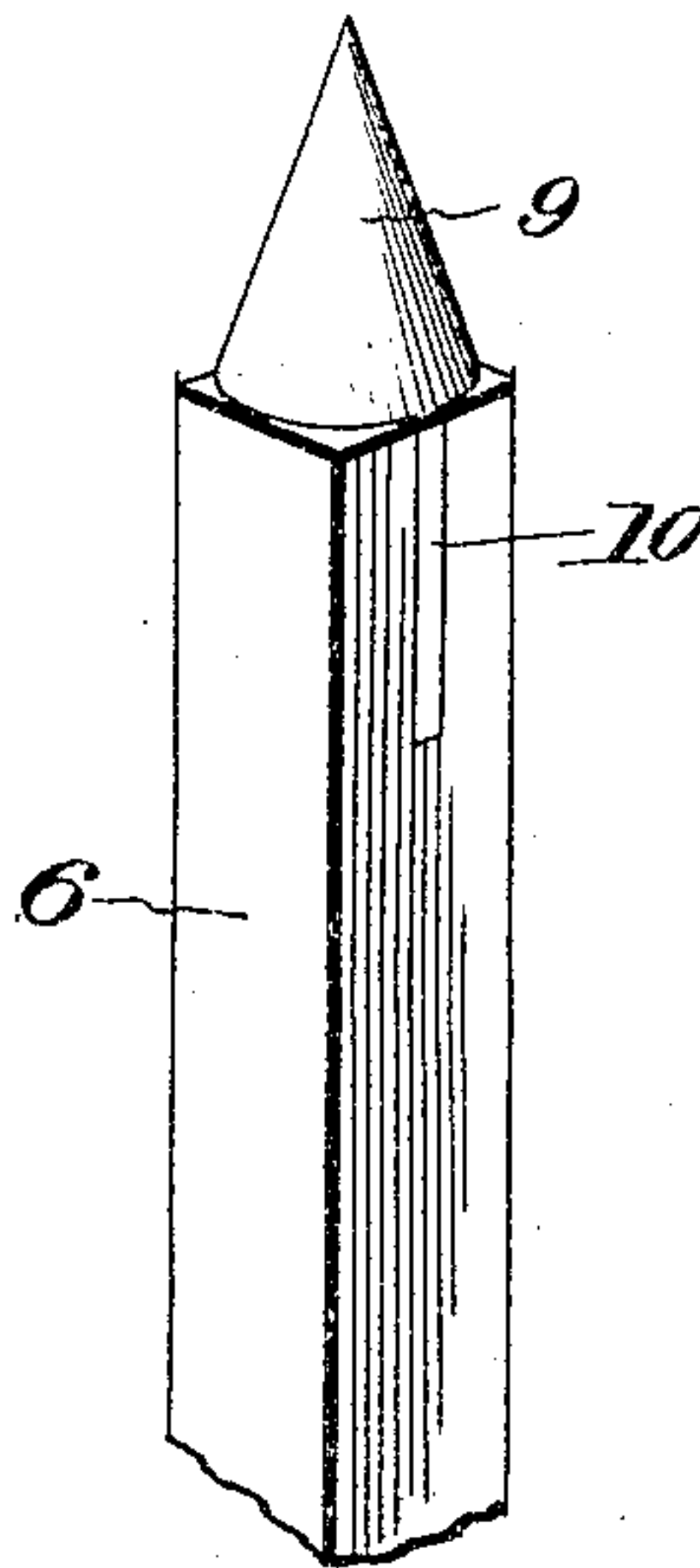


Fig. 2.



Witnesses

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WILLIAM N. ECKLE, OF MADISON MILLS, OHIO.

CRANE.

SPECIFICATION forming part of Letters Patent No. 778,534, dated December 27, 1904.

Application filed May 31, 1904. Serial No. 210,468.

To all whom it may concern:

Be it known that I, WILLIAM N. ECKLE, a citizen of the United States, residing at Madison Mills, in the county of Fayette and State of Ohio, have invented new and useful Improvements in Cranes, of which the following is a specification.

This invention is a device which will be found particularly serviceable in lifting operations, being by nature a crane suitable particularly for stacking hay, loading and unloading, hoisting, and in other uses in which a fixed or movable crane may be serviceable.

Improvement is particularly claimed with respect to the means for supporting a swinging boom and for supporting a winch by which the boom is operated.

In the accompanying drawings, Figure 1 is a perspective view illustrating the device. Fig. 2 is a detail in perspective of the top of the post.

Referring specifically to the drawings, 6 indicates a post supported upon sills 7, with braces therebetween, as at 8.

9 indicates a conical casting, the shank 10 of which is mortised into the top of the post, where it may be fastened by bolts or otherwise.

A casting 11 is mounted upon the head 9, said casting having therein a recess which receives said head, whereby the parts may be turned in any direction in a horizontal plane. At the top the casting 11 is forked, as at 12, and the boom or lever 13 is pivoted between the forks, swinging freely in a vertical plane.

The winch comprises a drum 14, which is carried at the ends of arms 15, projecting from

the casting 11, and these arms are supported by a brace 16, which extends from the top of the casting 11 to connection with a forked piece 17, which spans the drum and is bolted to the supporting-arm 15. The drum is operated by the crank 18 and has a pawl and ratchet at 19 to prevent back slip. The rope 20 is connected to the end of the boom and to the drum, and the winch operates the former in an obvious manner.

The conical castings at the top of the post provide a construction by means of which the parts can be easily separated for transportation or other purposes. The casting 11, together with the boom and the winch, may be readily lifted off the post and may be as readily replaced without taking out or putting in any bolts. A crane of considerable power or weight may thus be made available for transportation, and the parts may be loaded upon a wagon or the like and carried from place to place as may be needed.

What I claim as new, and desire to secure by Letters Patent, is—

In a crane, in combination, a post having at the top a conical head, a cap having a conical recess in which said head fits, a boom fulcrumed on said cap, and a winch supported on the cap and having its rope connected to the boom.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM N. ECKLE.

Witnesses:

J. W. YORE,
H. W. WILSON.