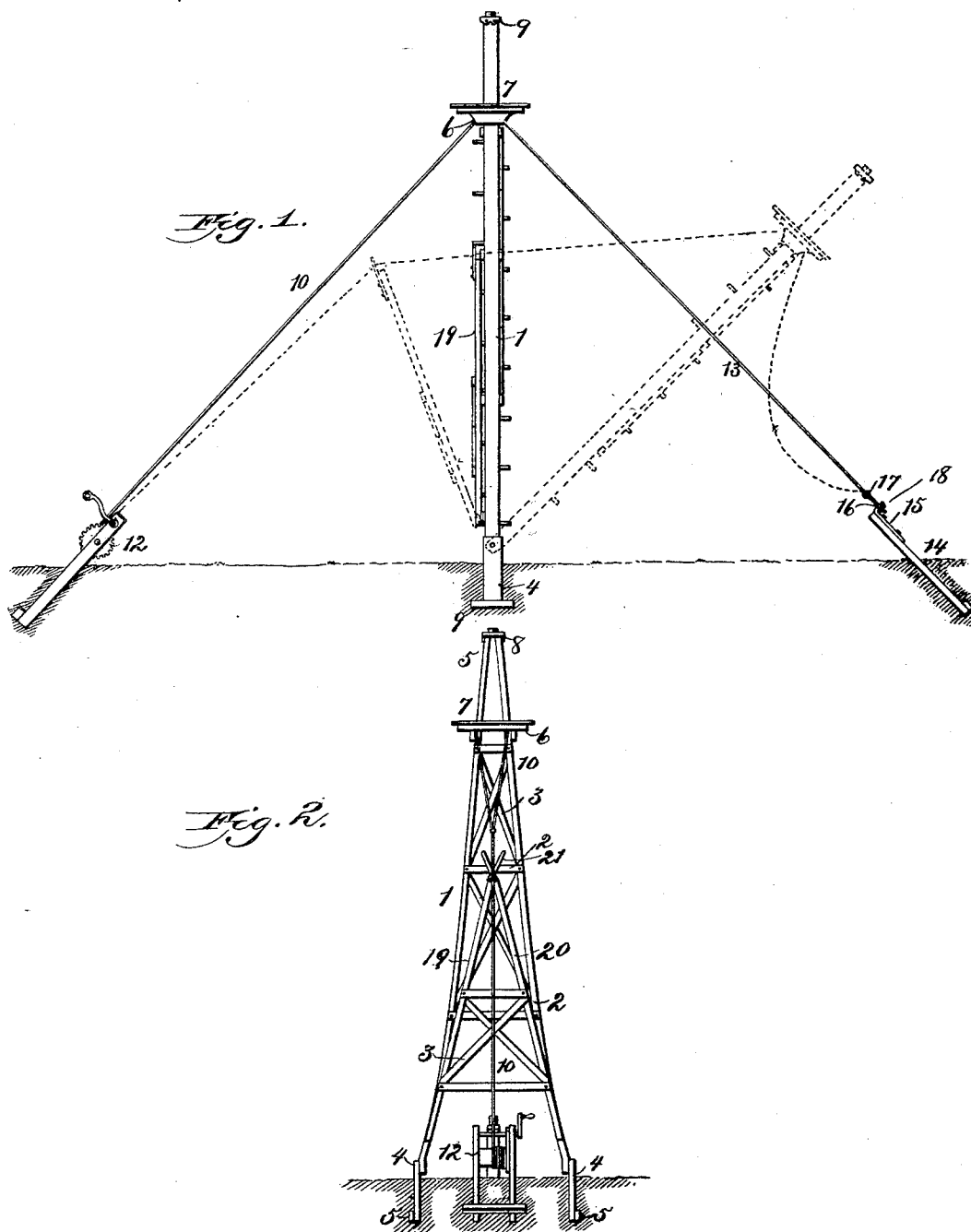


(No Model.)

H. C. ADDIS.
WINDMILL TOWER.

No. 460,837.

Patented Oct. 6, 1891.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY C. ADDIS, OF COUNCIL BLUFFS, IOWA.

WINDMILL-TOWER.

SPECIFICATION forming part of Letters Patent No. 460,837, dated October 6, 1891.

Application filed May 11, 1891. Serial No. 392,341. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. ADDIS, a citizen of the United States, and a resident of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented certain new and useful Improvements in Windmill-Towers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to towers for windmills or frames for derricks or similar upright frames, and is designed as an improvement upon the invention described and claimed in Letters Patent granted to me May 31, 1887, No. 364,077.

The object of the present invention is to provide improved means for raising and lowering the tower, and also to provide means for supporting the elevating-cable, whereby the raising and lowering of the tower is facilitated.

The invention consists in the novel construction and combination of parts herein-after fully described, and specifically pointed out in the claim.

In the accompanying drawings, Figure 1 is a side view of a windmill-tower or derrick-frame constructed in accordance with my invention. Fig. 2 is a front view or a view taken at right angles to Fig. 1.

In the said drawings the numerals 11 indicate two converging posts, which are suitably connected by means of cross-pieces 2 and braces 3, and the lower ends of these posts are hinged or pivoted to two anchor-posts 4, secured in the ground and provided with cross-pieces 5 at their lower ends for preventing them from being drawn out of the ground. Near the upper ends these posts are connected by means of the cross-pieces 6, having their outer faces inclined, and upon said cross-

pieces is mounted the platform 7. The ends of the posts extend above the platform and are connected by means of plate 8, secured thereto by bolts 9. Connected to the posts just beneath the platform is a rope or cable 10, which leads to a windlass 12, firmly anchored in the ground. Upon the opposite side of said posts is a rope or cable 13, which leads to an anchor 14, secured in the ground. This anchor may consist of a heavy beam or post let into the ground a sufficient distance so as to withstand any strain to which it may be subjected. Secured to the upper end of this beam or post is a plate 15, having an upturned end 16, provided with an aperture for the passage of a screw-threaded hooked bolt 17, with which is connected the rope or cable 13. This bolt is also provided with a nut 18, by means of which the said cable may be tightened and loosened. Near the lower end of the posts 1 is hinged a support 19, consisting of two converging posts 20, suitably connected and braced and having at its upper or free end a fork 21, which will support the windlass-cable in raising and lowering the tower.

The operation will be readily understood. By actuating the windlass the tower will be elevated, the support 19 serving to hold the windlass-cable, whereby a purchase is formed, which will facilitate the operation.

Having thus described my invention, what I claim is—

In a windmill or other tower, the combination, with the hinged posts, the windlass, anchor, and cables connected therewith, of the support hinged to said posts and having a fork at its free end, substantially as described.

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

HENRY C. ADDIS.

Witnesses:

ALBERT FAUL,
THOS. OFFICER.