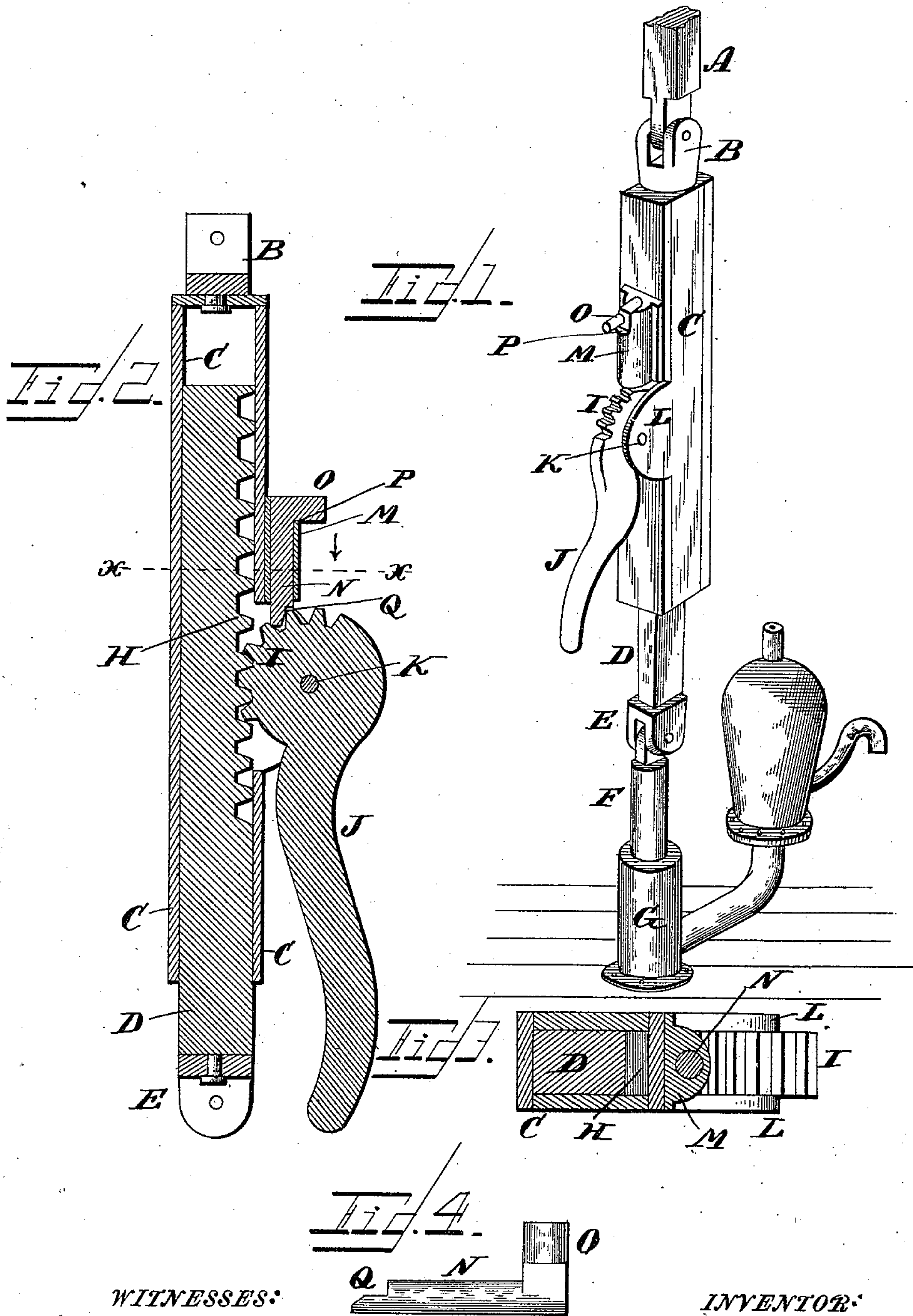


(No Model.)

C. F. WEST.
PUMPING ATTACHMENT FOR WINDMILLS.

No. 464,446.

Patented Dec. 1, 1891.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES F. WEST, OF PIONEER, OHIO.

PUMPING ATTACHMENT FOR WINDMILLS.

SPECIFICATION forming part of Letters Patent No. 464,446, dated December 1, 1891.

Application filed May 26, 1891. Serial No. 394,037. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. WEST, a citizen of the United States, and a resident of Pioneer, in the county of Williams and State of Ohio, have invented certain new and useful Improvements in Pumping Attachments for Windmills; 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.

Figure 1 is a perspective view of my pumping attachment, showing it in its operative position as applied to the vertically-reciprocating pumping-rod of a windmill. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view on line $x x$ in Fig. 2, and Fig. 4 is a detail view of the device for locking the sucker-rod when the pump is to be operated by the mill.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to windmill attachments for working pumps, and has for its object to provide means whereby the pumping may be operated by hand when through lack of wind the mill is stationary, and without the necessity of uncoupling the sucker-rod of the pump-barrel from the pumping-rod of the mill.

With this object in view my invention consists in the combination, with the reciprocating pumping-rod, of a casing containing a rack-bar, which is coupled to the upper end of the sucker-rod and provided with a pump-handle, cogged segment, and locking mechanism for locking the sucker-rod to said casing, so as to couple it to or uncouple it from the pumping-rod at will, substantially as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, the letter A designates the lower end of the pumping-rod of a windmill of any approved construction. This is connected by the swiveled coupling B to a box or casing C, into the lower end of which is loosely inserted

the upper end of a rod D, the projecting lower end of which also has a swiveled head E for coupling it to the valve-rod or sucker-rod F of the pump-barrel G. One side of rod D is cogged to form a rack H, which engages the cogged segment I, which is provided with a projecting lever or handle J, and has its fulcrum upon a pin or bolt K, inserted transversely through bearings L on one side of the box or casing C. Above these bearings L is a small tubular box M for the insertion of a pin N, having a finger-piece O projecting at right angles, which fits into a notch or recess P, cut in the upper front side of box M. The pin N is cut away on one side at its lower end to form a lip Q, which, when the pin is inserted into its box, with the finger-piece O resting in the notch P, will project through the lower end of said box and engage the cogs or teeth of the segment I, as illustrated in Fig. 2.

From the foregoing description, taken in connection with the drawings, the manner of operating this attachment will be readily understood. When the mill is at work, rod D H is locked to the casing by means of the segment I and pin N, so that the sucker-rod will be coupled to the pumping-rod of the mill and reciprocated with it; but when there is no wind, so that rod A remains stationary, the sucker-rod F may be worked up and down to pump simply by removing pin N and working the handle J up and down. Thus it will be seen that I obviate the necessity of uncoupling the sucker-rod from the windmill-rod or pumping-rod when for any reason it is desired to work the pump by hand, all that is necessary being to remove the pin N, which is reinserted when the pump is to be worked by wind-power.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with the pumping-rod of a windmill, of the swiveled box or casing, the rack-bar working in said casing and having a swiveled head at its lower end, the cogged segment having a projecting handle, the tubular box secured to said casing, hav-

ing a notch at its upper end, the pin adapted
to interlock with said segment, having a pro-
jecting finger-piece adapted to engage with
said notch, and the sucker-rod, all constructed
5 and combined to operate substantially in the
manner and for the purpose herein shown
and set forth.

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

CHARLES F. WEST.

Witnesses:

HIRAM E. LOOMIS,
JOHN OREWILER.