

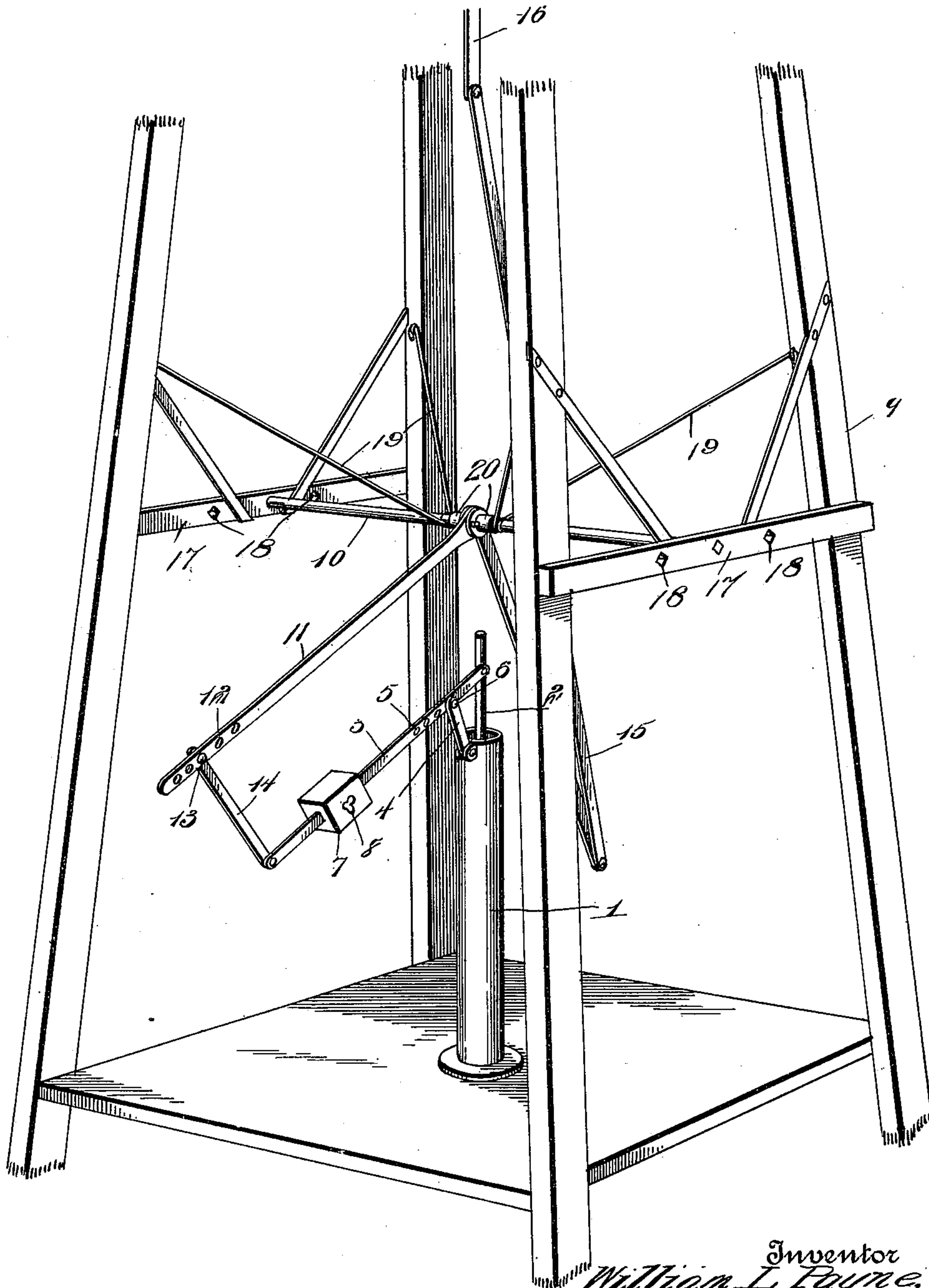
No. 667,035.

Patented Jan. 29, 1901.

W. L. PAYNE.
ATTACHMENT FOR WINDMILLS.

(Application filed June 1, 1900.)

(No Model.)



Witnesses

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ATTACHMENT FOR WINDMILLS.

SPECIFICATION forming part of Letters Patent No. 667,035, dated January 29, 1901.

Application filed June 1, 1900. Serial No. 18,738. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LEE PAYNE, a citizen of the United States, residing at Warren, in the county of Marion and State of Missouri, have invented new and useful Improvements in Attachments for Windmills, of which the following is a specification.

This invention relates to new and useful attachments for windmills; and its primary object is to provide a device which may be readily applied to mills of this character now in use and whereby the force thereof may be multiplied and the speed changed correspondingly.

To these ends the invention consists in providing a novel arrangement of levers, rocking beams, and weights, all of which are adjustable for the purpose hereinafter described.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed and illustrated in the accompanying drawing, which is a perspective view of the preferred form of my invention.

Referring to said drawing by numerals of reference, 1 is a pump-stock, within which is mounted a piston having a rod 2 extending therefrom. A lever 3 is pivoted to this rod near the upper end thereof and is connected by means of a link 4 to the upper end of the pump 1, as shown. This lever is provided with a series of perforations 5, any one of which is adapted to receive a pivot-pin 6, extending through the end of the link 4.

A weight 7 is slidably mounted upon the lever 3 and may be held in any desired position thereon by means of a set-screw 8.

Secured between the standards 9 of a frame of suitable construction is a stationary shaft 10, upon which is journaled an angular rocking beam 11, provided near one end with a series of perforations 12. Any one of these perforations receives a pivot-pin 13, which extends through a connecting-link 14, pivoted at its opposite end to the free end of the lever 3. A pitman 15 is secured to the opposite end of the rocking beam 11 and connects the same with the pump-rod 16, which is driven in the ordinary manner.

It will be seen that by placing the pivot-pin 13 in the desired perforation 12 the leverage

upon the lever 3 may be regulated, and by adjusting the link 4 upon the lever 3 the desired stroke of the piston 2 may be procured. It will of course be understood that the beam 11 is loosely mounted upon the shaft 10; also, that by adjusting the weight 7 from or toward the piston 2 the resistance to the motion of said beam may be increased or diminished.

From the foregoing description, taken in connection with the accompanying drawing, the construction, operation, and advantages of my improved attachment for windmills will be readily apparent without requiring an extended explanation. It will be seen that the attachment is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purposes for which it is designed.

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.

By reference to the drawing it will be seen that the side strips 17 of the frame, which supports the shaft 10, are provided with perforations 18. It will thus be seen that said shaft can, if desired, be adjusted from side to side of the frame, and thereby increase or diminish the resistance to the action of the pump. Brace rods or wires 19 are secured to the shaft near the center thereof and extend to the standards of the frame. These rods, as is obvious, serve to support the shaft when the same is subjected to great strain, such as will result when a large volume of water is hoisted. A sleeve 20 is preferably secured to the shaft in any suitable manner and serves as a bearing for the rocking beam 11. This, as is obvious, will prevent wear upon the shaft, and the sleeve can be removed and replaced when desired.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. The combination with standards, and a pump-stock; of a shaft mounted between said standards; an angular beam upon the shaft, having a series of perforations near one end; a piston-rod; a link pivoted to the pump-

stock; a lever mounted upon said link and pivoted to the piston-rod; and a link connection between the beam and lever.

2. The combination with standards, and a
5 pump-stock; of a shaft mounted between said standards; an angular beam upon the shaft having a series of perforations near one end thereof; a piston-rod; a link pivoted to the pump-stock, a lever mounted upon said link,

and pivoted to the piston-rod; a link connection between the beam and lever; and an adjustable weight upon the lever.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM LEE PAYNE.

Witnesses:

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