

(No Model.)

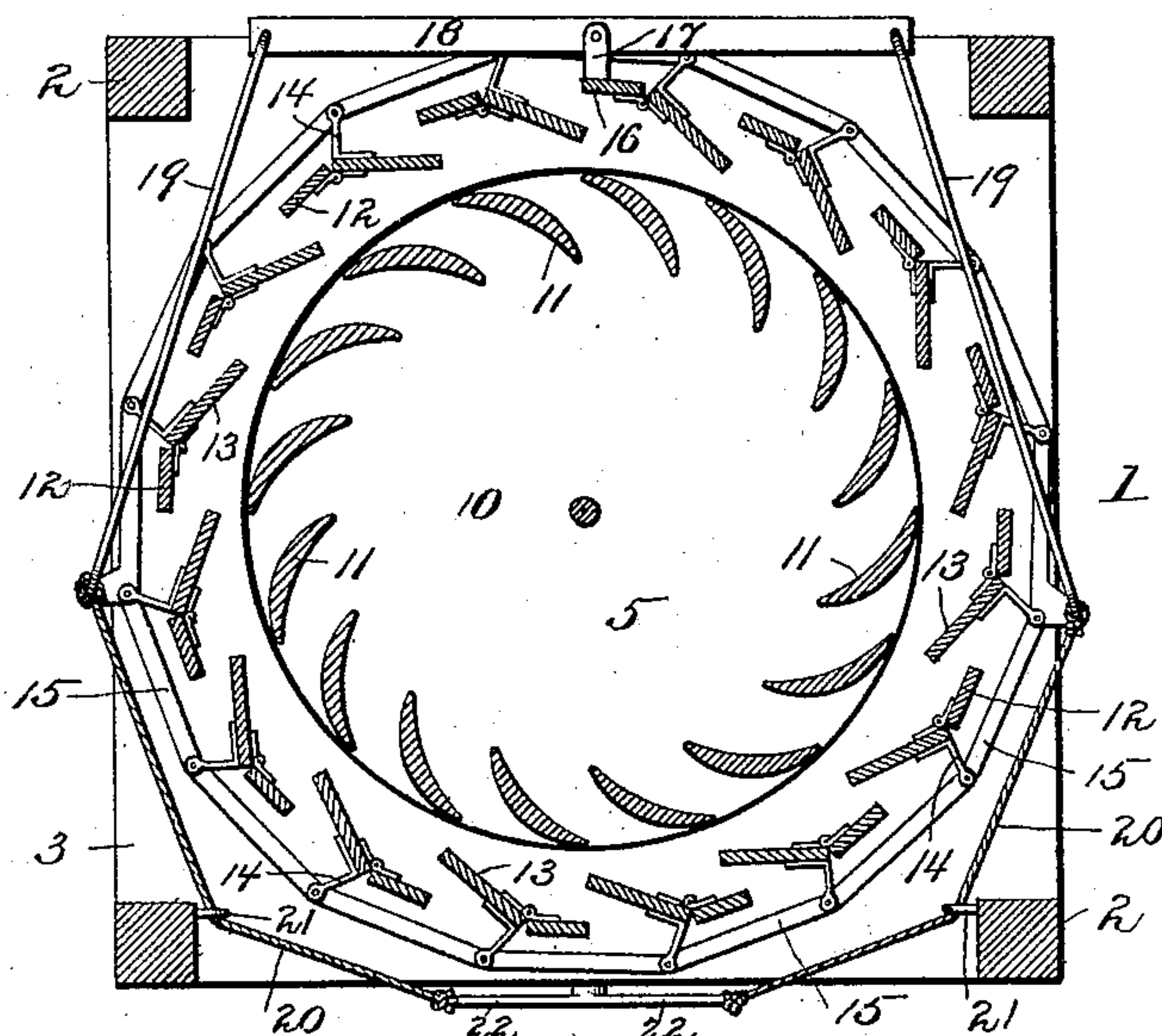
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M. TWISS.  
WINDMILL.

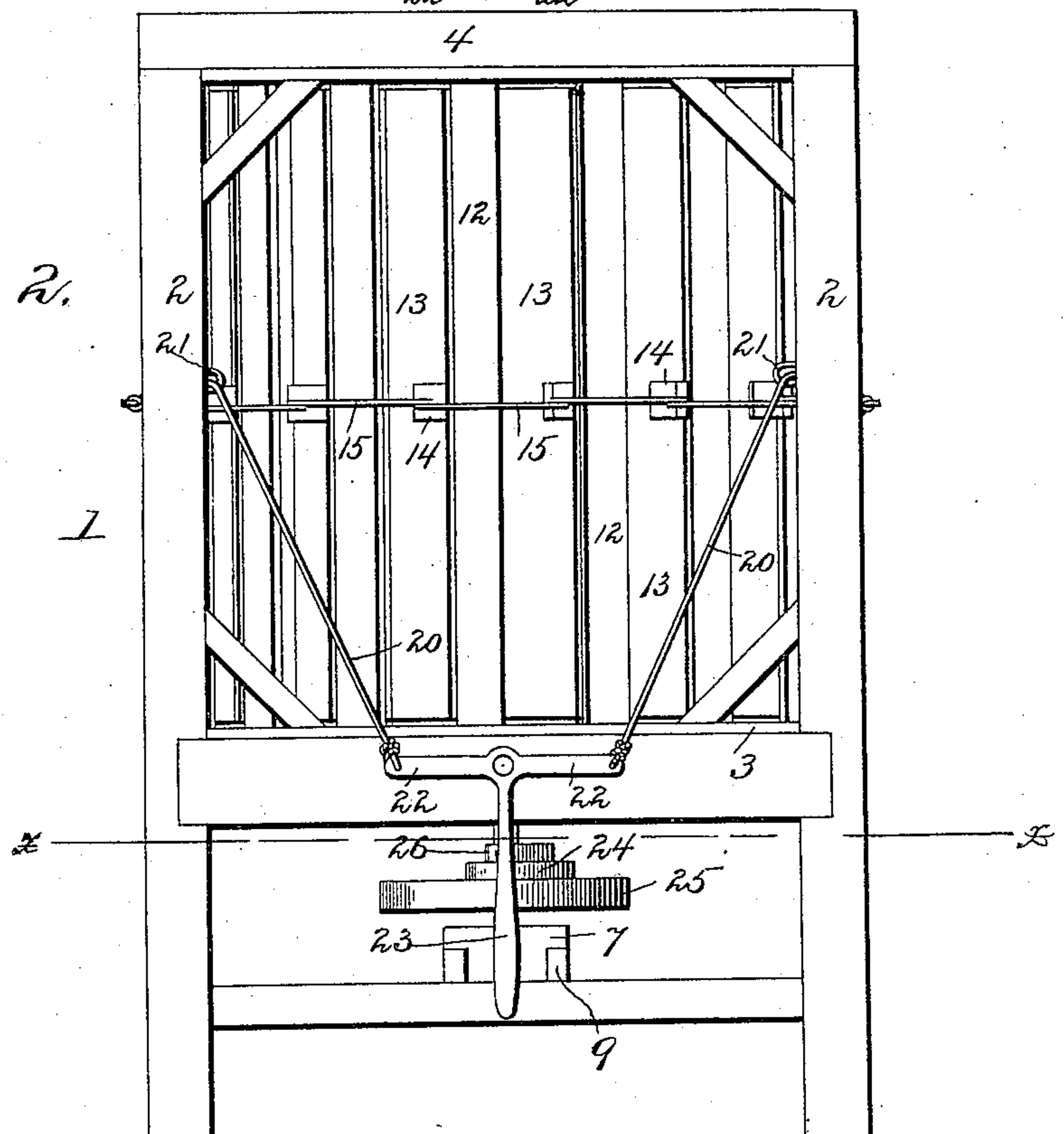
No. 574,290.

Patented Dec. 29, 1896.

*Fig. 1.*



*Fig. 2.*



WITNESSES

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(No Model.)

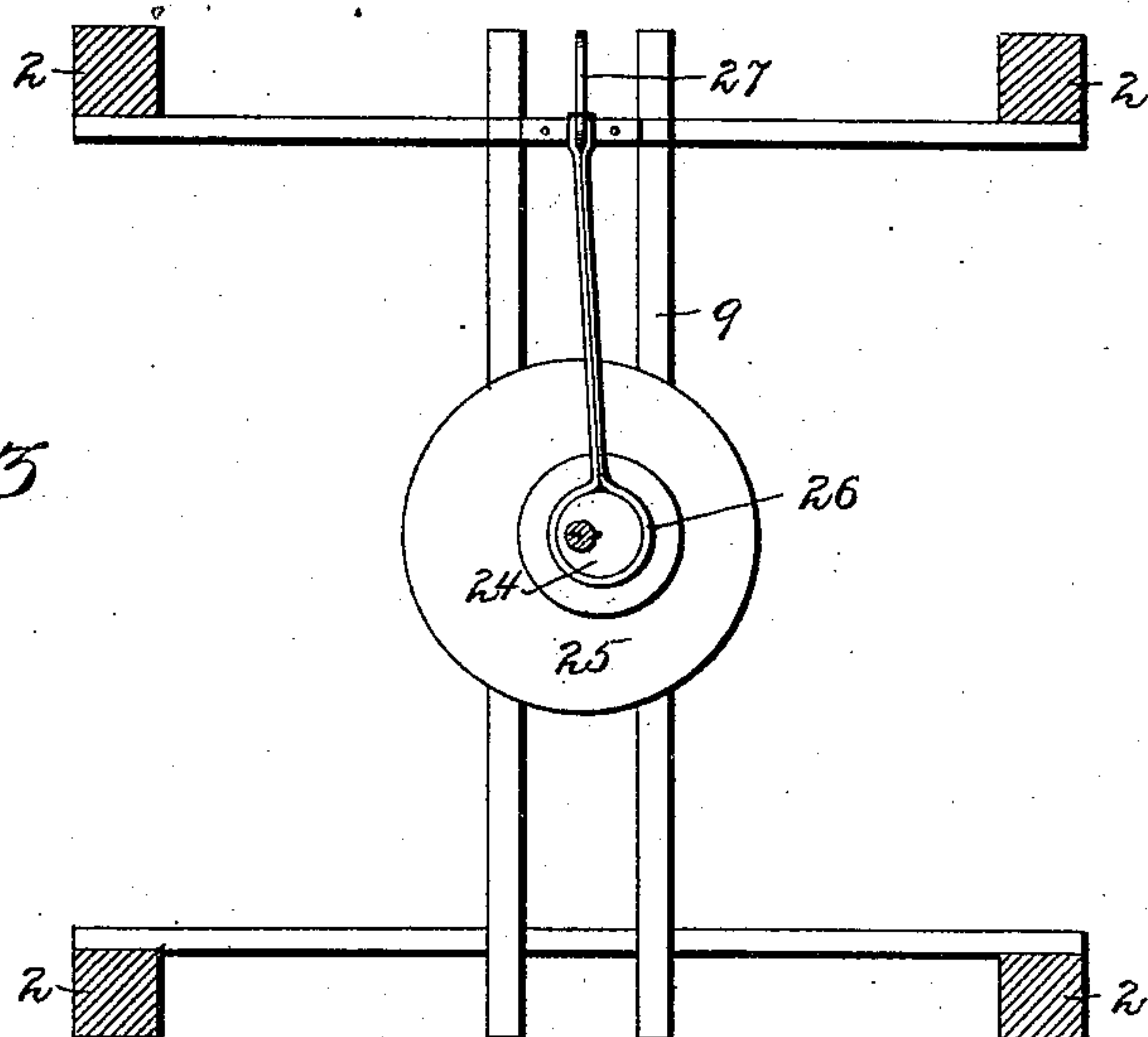
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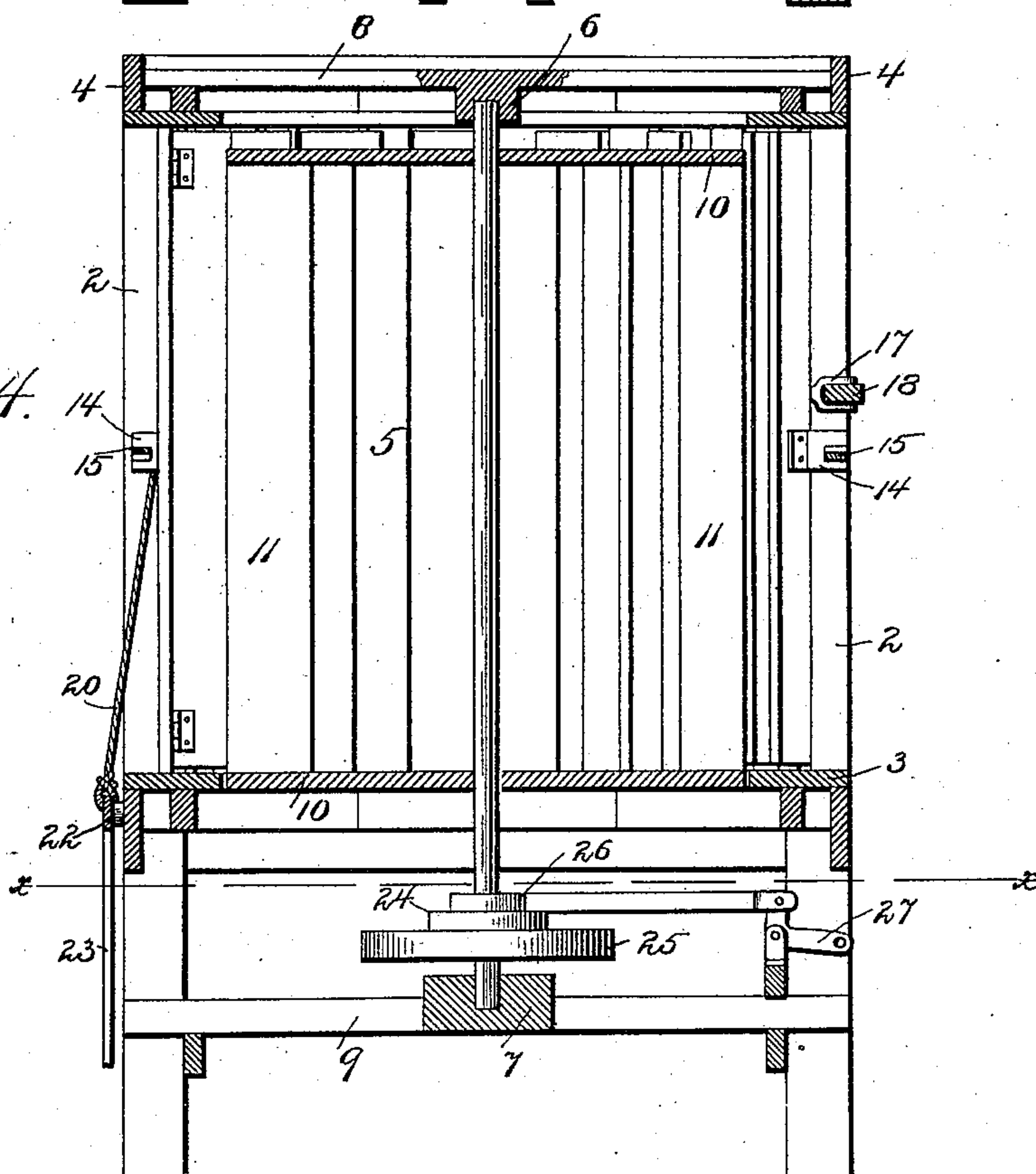
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*Fig. 3*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

MYRON TWISS, OF NORFOLK, NEBRASKA.

## WINDMILL.

SPECIFICATION forming part of Letters Patent No. 574,290, dated December 29, 1896.

Application filed September 6, 1895. Serial No. 561,616. (No model.)

*To all whom it may concern:*

Be it known that I, MYRON TWISS, a citizen of the United States, residing at Norfolk, in the county of Madison and State of Nebraska, have invented certain new and useful Improvements in Windmills; and I 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.

My invention relates to windmills.

The object of the invention is to provide a windmill which will be simple in construction, durable in use, and comparatively inexpensive of production.

With these objects in view the invention consists of certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a horizontal sectional view of the windmill. Fig. 2 is a side elevation thereof. Fig. 3 is a sectional plan, presently referred to. Fig. 4 is a vertical sectional view of the windmill.

In the drawings, 1 denotes the upper end of the tower, which consists of posts 2, platform 3, and the upper cross-pieces 4, which connect the ends of the posts.

5 denotes a wheel the shaft of which is journaled in bearings 6 and 7, supported by cross-pieces 8 and 9, respectively, attached to the tower. This wheel consists of the circular heads 10, having arranged annularly around them and secured thereto the blades 11 of the wheel, which blades are spaced apart and are arranged tangentially to the axis of the wheel.

12 denotes posts which are supported by the platform and the upper cross-pieces of the tower and which are arranged in a circle upon said platform.

13 denotes the blinds, which are pivoted to these posts and have a swinging movement inward. To each of these blinds are secured lugs 14, which are pivotally connected together by links 15. One of these posts, preferably the rear one, which I designate 16, has a bracket 17 secured thereto, to which is pivoted a lever 18, the free ends of which are pivoted by link-rods 19 to two of the shutter-links. Connected to these links are ropes 20, which extend through eyes 21, secured to the

posts of the tower, and have their lower ends connected with the limbs 22 of a bell-crank lever 23.

24 denotes an eccentric which is fixed to the lower end of the shaft of the wheel and is provided with a fly-wheel 25. An eccentric-strap 26 is engaged with this eccentric and has its free end connected with a bell-crank lever 27, the free end of which is adapted to be connected with a pump-rod.

In operation by moving the bell-crank lever 23 to one side the shutters will be opened, allowing the wind to strike the blades of the wheel and rotate it. A reverse movement of the bell-crank lever will close the shutters, thus throwing the wheel out of operation, as the wind will not be able to strike the blades of the wheel.

A windmill thus constructed is exceedingly simple and may be made at a small cost and will have great power.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In a windmill, the combination with a tower, of the wheel journaled therein, the blades secured to the wheel, as described, a series of links pivotally connected together and extending circumferentially around the wheel and concentrically thereto, a series of lugs pivotally connected at one end to the links and extending inwardly therefrom, a series of uprights or posts arranged around the wheel, a series of blinds pivotally connected at one end to the posts and secured to the inner end of the lugs and each of said blinds adapted to extend across and temporarily close the opening between two adjacent posts, a bracket secured to one of the posts, a lever pivoted centrally to the bracket, links pivoted at one end to the opposite ends of the lever, and at the opposite end pivoted to two of the circumferentially-arranged links, ropes connected at one end to said two links, a bell-crank lever to which the other ends of the ropes are connected, all as specified.

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

MYRON TWISS.

Witnesses:

HORACE MCBRIDE,  
M. C. HAZEN.