(No Model.)

# A. WEGLEY.

## WINDMILL.

No. 310,237. Patented Jan. 6, 1885.

Fig. 1.

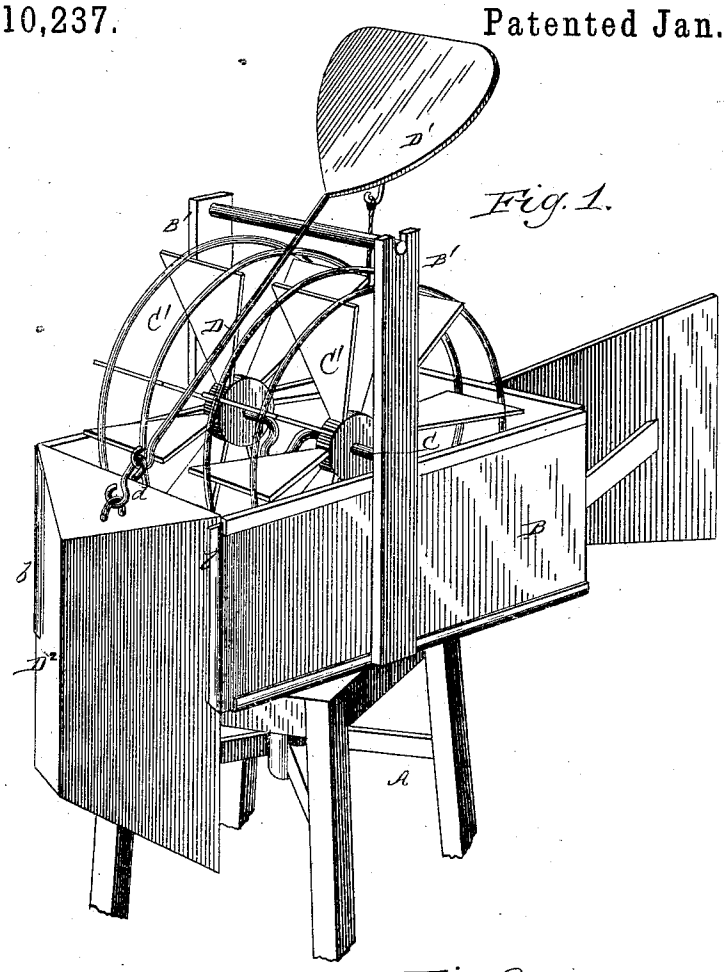
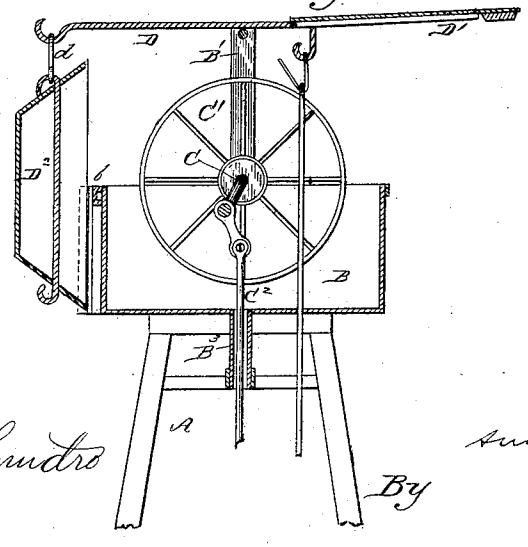



Fig. 2.




Witnesses
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# UNITED STATES PATENT OFFICE.

AUSTIN WEGLEY, OF LINCOLN CENTRE, KANSAS.

## WINDMILL.

SPECIFICATION forming part of Letters Patent No. 310,237, dated January 6, 1885.

Application filed October 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, AUSTIN WEGLEY, a citizen of the United States, residing at Lincoln Centre, in the county of Lincoln and State of Kansas, have invented certain new and useful Improvement in Windmills, of which the following is a specification, to wit:

This invention relates to an improvement in windmills; and it consists in certain peculiarities of construction and arrangement, substantially as will be hereinafter more fully set forth, whereby the wheel is fully protected from high winds and storms and stopped and started at will, substantially as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my windmill, and Fig. 2 a longitudinal vertical section of the same.

A represents the tower, which may be of any of the usual and well-known forms, and is intended to be provided with the usual circular track on its upper end for a bearing for friction-wheels upon the mill-head. This being so common in this class of machinery, I have not thought it necessary to show it in the drawings.

Upon the tower A is pivoted a box, B, having standards B′ B′ upon each side and a vane, $B^2$, secured to its rear end.

In the standards B′ is journaled a shaft, C, carrying a wind-wheel, C′, upon each end of the tower, one half of each wheel being inclosed within the box and the other half projecting above it, where it receives the force of the wind. The shaft C is cranked between the wheels C′ C′, and has connected to it a pitman, $C^2$, which extends down through the hollow hub $B^3$ of the mill, and is connected to whatever machinery it is desired to operate. The forward end of the box B is provided with grooves or guides *b b* upon each corner, in which moves a vertically-sliding shield or deflector, $D^2$, having beveled outer surfaces, as seen in Fig. 1. This shield is hung by a link, *d*, with a lever, D, fulcrumed in the standards B′ above the wind-wheels, and having a vane, D′, upon its rear end, as shown.

In operation the wind acts upon the portion of the wheels above the box B, and supplies power to run the machinery in the usual way, while the vane $B^2$ keeps the box and its wheels always in the wind. Should the wind become too heavy the vane D′ will be depressed, thus lifting the shield to a greater or less extent, and protecting the blades of the wheels from its force, and in very heavy gales it will be so raised as to protect the wheels altogether and stop the mill. The speed of the mill may also be controlled or stopped at any time by means of a rope or equivalent device attached to the vane D′ or its lever D and led down through the hub to any position at the base of the tower, where it may be operated by the attendant.

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

The box B, pivoted upon the tower and provided with the vane $B^2$, and the cranked shaft C, having two wind-wheels, C′, secured upon it and revolving with half their blades within the box, in combination with a beveled shield, $D^2$, sliding vertically in guides upon the forward end of the wheel-box, and the regulating-vane D D′, pivoted above the wheels and connected to the shield by a link, all constructed and arranged to operate substantially as and for the purpose set forth.

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

AUSTIN WEGLEY.

Witnesses:
LON. A. MINX,
M. M. GEORGE.