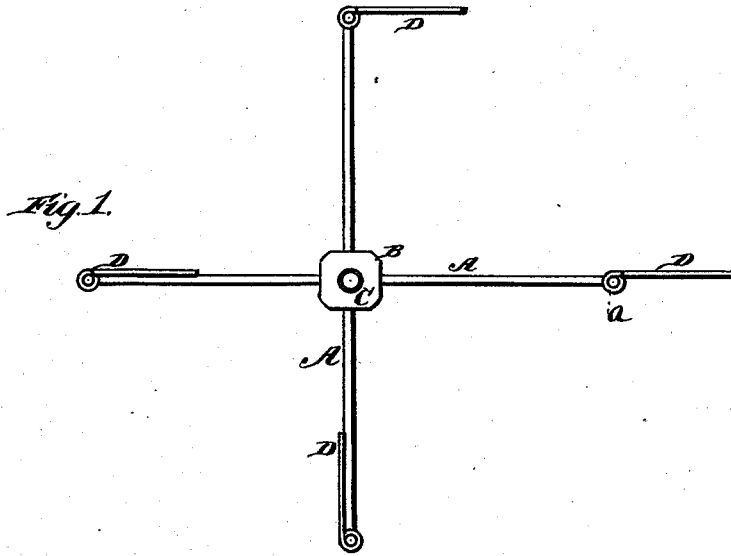
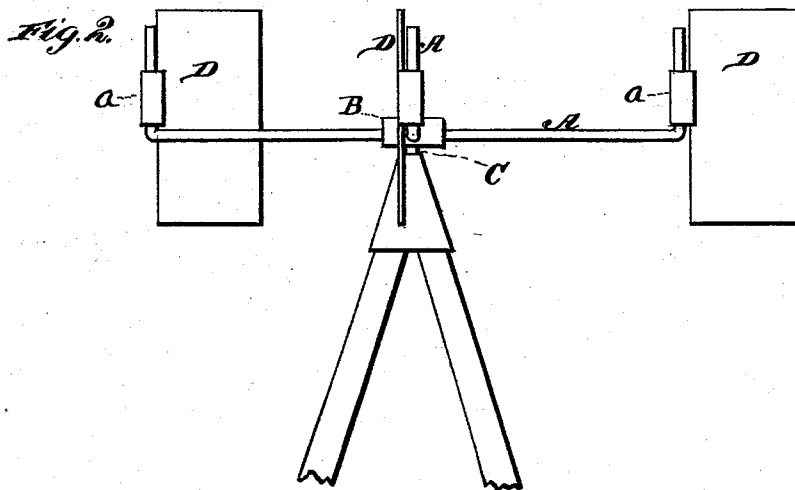


E. LANPHEAR.
Windmill.

No. 232,514.

Patented Sept. 21, 1880.



WITNESSES
Robert Enright
Chas. S. Page

INVENTOR
Edison Lanphear
Wilmors Smith & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDSON LANPHEAR, OF LINCOLN CENTRE, KANSAS.

WINDMILL.

SPECIFICATION forming part of Letters Patent No. 232,514, dated September 21, 1880.

Application filed December 13, 1879.

To all whom it may concern:

Be it known that I, EDSON LANPHEAR, of Lincoln Centre, in the county of Lincoln and State of Kansas, have invented certain new and useful Improvements in Windmills; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan of my windmill, and Fig. 2 is a side-elevation view of the same.

The nature of my invention relates to windmills; and it consists in the construction and arrangement of parts, as fully set forth in the following description, and particularly pointed out in the claim.

In the annexed drawings, A refers to arms which radiate from a central block, B, which is placed upon a shaft, C. These arms are bent upward at right angles at their outer ends, and upon such upwardly-bent portions are hung the fans or vanes D by means of eyes *a*. These

hinged vanes assume the position shown in the drawing when the wind blows against them, and as the arms turn round they feather to the wind. As shown, two of these vanes are in a position against the arms for receiving the full force of the wind, while the remaining two are "feathered."

The shaft C may connect with any suitable devices for pumping water or with other machinery for grinding purposes.

What I claim is—

In a wind-wheel, the combination of the arms A, bent up at their outer ends and secured at their inner ends to the block B, mounted upon the shaft C, with the vanes D, provided with the eyes *a*, substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDSON LANPHEAR.

Witnesses:

M. B. HATHAWAY,
M. J. WATSON.