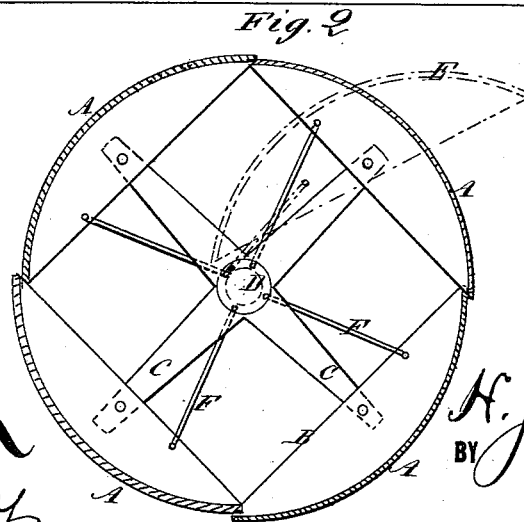
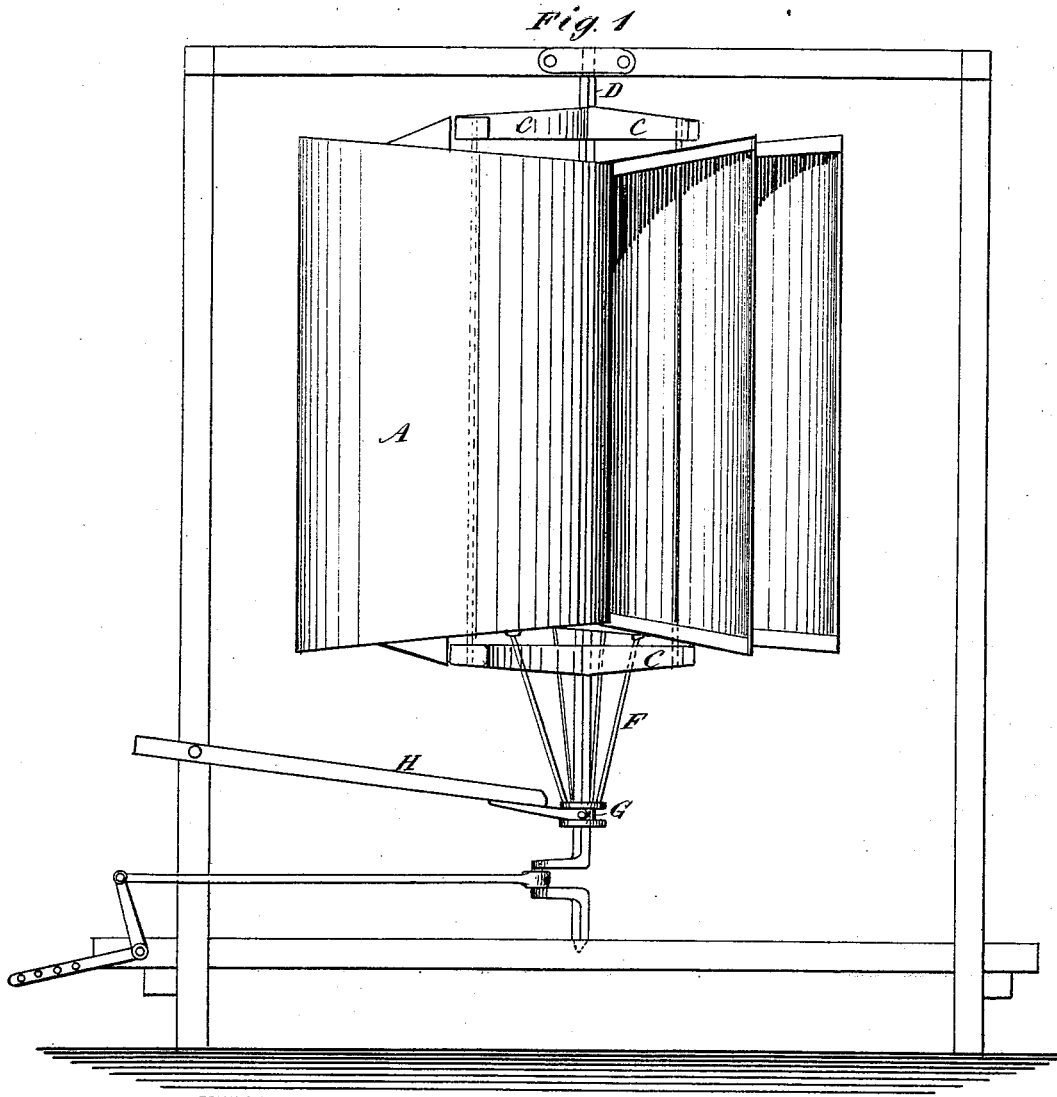


H. J. BRIMHALL, Jr.

Wind Mills.

No. 166,744.

Patented Aug. 17, 1875.



WITNESSES:
C. N. ...
A. J. Terry

INVENTOR:
H. J. Brimhall, Jr.
BY *[Signature]*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HORACE J. BRIMHALL, JR., OF MILLINGTON, ILLINOIS, ASSIGNOR TO HIMSELF AND SAMUEL E. FOSTER, OF SAME PLACE.

IMPROVEMENT IN WIND-WHEELS.

Specification forming part of Letters Patent No. **166,744**, dated August 17, 1875; application filed July 24, 1875.

To all whom it may concern:

Be it known that I, HORACE J. BRIMHALL, Jr., of Millington, Kendall county, Illinois, have invented a new and Improved Windmill, of which the following is a specification:

My invention consists of fans shaped like the arc of a circle, and pivoted at the middle of the top and bottom to horizontal arms projecting from the shaft, so that they may swing into radial, or nearly radial, positions to take the wind, and into a circle to close, so that the wheel will not be turned by the wind, and the buckets are connected to a slider on the shaft, which is moved by a lever to open and close the buckets for starting and stopping the machine.

Figure 1 is a side elevation, and Fig. 2 is a horizontal section, of the machine.

Similar letters of reference indicate corresponding parts.

A represents the fans, which are pivoted, by means of end pieces B, to the arms C of the vertical shaft D, so as to swing freely into the

circle represented by the full lines in Fig. 2, or into positions indicated by the dotted lines E, being, in the latter case, in the condition for taking the wind, and in the former condition being so that the wind will not turn it. The fans are connected by rods F with a slider, G, on the shaft, which is worked by a lever, H, to open and close them, and to regulate the power of the wind on the wheel by opening the fans more or less.

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

1. Curved fans A, pivoted to arms C of a shaft, D, to open and close in the manner described.

2. The combination of a slider, G, and lever H with curved fans A, pivoted to the arms of the wheel, as described.

HORACE J. BRIMHALL, JR.

Witnesses:

GEORGE G. BIDDULPH,
JOHN MCMATH.