

W. JONES.
Wind-Mills.

No. 142,108.

Patented August 26, 1873.

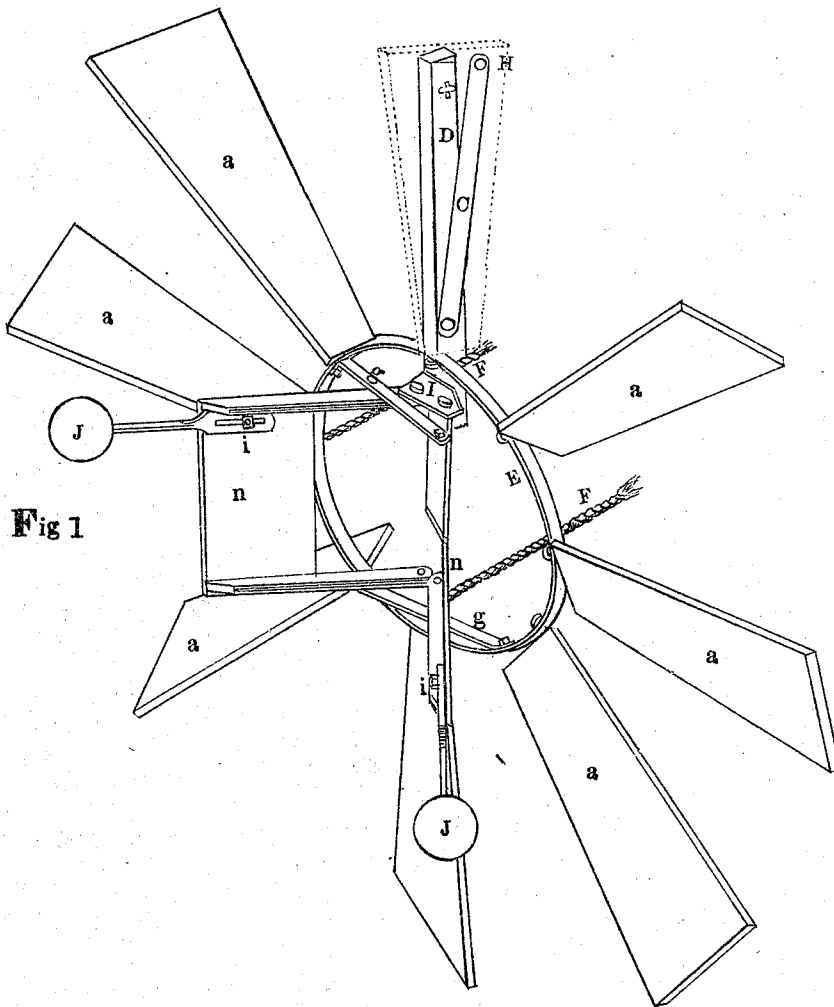


Fig 1

WITNESSES

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IMPROVEMENT IN WINDMILLS.

Specification forming part of Letters Patent No. **142,108**, dated August 26, 1873; application filed
April 30, 1873.

To all whom it may concern:

Be it known that I, WESLEY JONES, of Davenport, in the county of Scott and State of Iowa, have invented a new and useful Improvement in Wind-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a perspective view, showing all of my improvement.

My invention relates to that class of wind-wheels in which the speed of the wheel is governed by an automatic governor. My improvement consists in suitable appliances, whereby an automatic governor is produced, which regulates the speed of the wheel by keeping the wings of the wheel at such angles as are required to obtain the number of revolutions per minute that is desired, without regard to the strength of the wind.

The following is its construction and operation:

The wheel is constructed, as shown, with wings *a a a a*. Each wing is attached with hinges to an arm (shown at D) at each end. The inner end of the wings is attached to the ring E at its outer edge. The ring E has attached to it two rods, *g g*, which are also attached to the frame *n n* at opposite sides of the frames *n n*, and are hinged together at I, which allows them to open and close. At their outward edges they are provided with balls J J, which have attached to them studded arms that can be adjusted, if necessary, to secure a more perfect operation of the frames. G rep-

resents a spring, the lower end of which is attached to the arm D. The upper end is attached to the back of the wing. (Shown at H in dotted lines.)

The operation is as follows: The spring C is twisted so that it keeps the wings *a a a* at the proper angle required with a mild wind; but should the wind increase in strength, its force operates against the sides of the frames *n n*, which causes them to open, and by means of the rods *g g* the ring E is caused to slightly rotate, which changes the angle of the wings *a a a a* to such an extent that the speed of the wheel is not increased perceptibly, and as the wind ceases or decreases in strength the frame *n n* gradually closes, which allows the spring C to press the wings back to their proper angle. The cords F F are for the purpose of opening the governor-frame. By means of the rods *g g* and ring E, the wings *a a a a* turn at right angles to the wind, which causes the wheel to stop, and the wind can pass through without doing it any injury.

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

1. The frames *n n*, as shown and described, for the purpose set forth.
2. The frames *n n*, in combination with the ring E, substantially as shown and described.
3. The frames *n n*, ring E, rods *g g*, and spring C, operating jointly together, as and for the purpose set forth.

WESLEY JONES.

Witnesses:

E. P. LYNCH,
T. O. SWINEY.