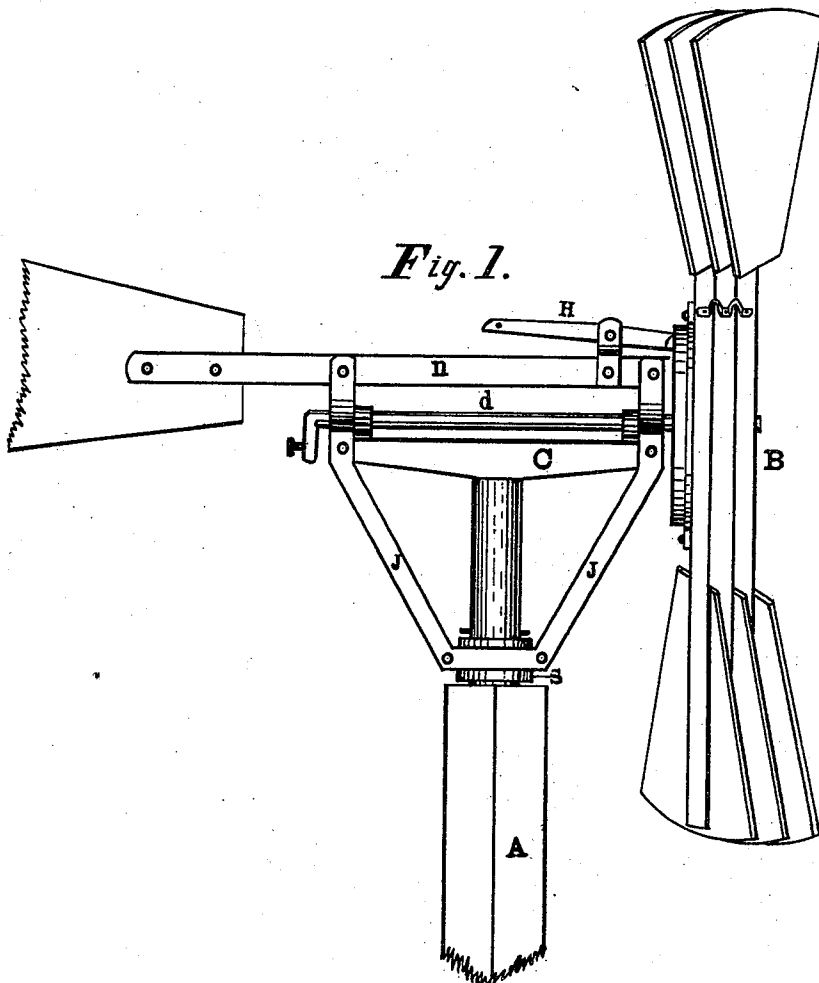


2 Sheets—Sheet 1.

E. S. SMITH.
WIND-MILL.

No. 173,075.

Patented Feb. 1, 1876.



WITNESSES.

Thos. J. Price
John H. Moore.

INVENTOR.

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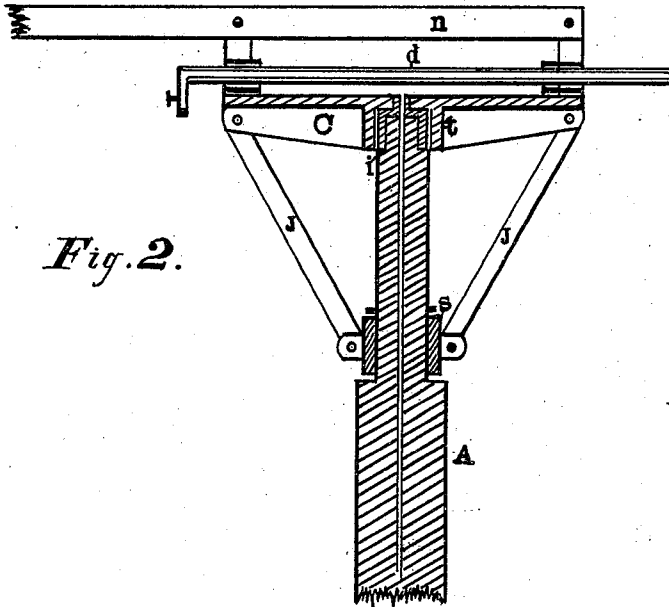


Fig. 2.

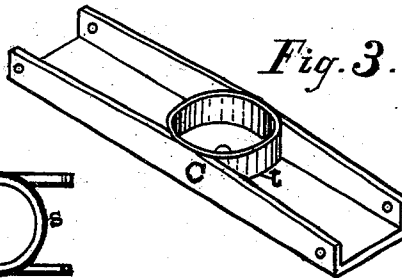


Fig. 3.



Fig. 4.

WITNESSES.

Thos. J. Price
John H. Moore.

INVENTOR.

E. S. Smith

UNITED STATES PATENT OFFICE.

ELIJAH S. SMITH, OF GOOD HOPE, ILLINOIS.

IMPROVEMENT IN WINDMILLS.

Specification forming part of Letters Patent No. **173,075**, dated February 1, 1876; application filed January 10, 1876.

To all whom it may concern:

Be it known that I, ELIJAH S. SMITH, of Good Hope, in the county of McDonough and State of Illinois, have invented a new and useful Improvement in Windmills; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an elevation, and Fig. 2 is a cross-section of the same. Figs. 3 and 4 are detached parts, which will be described hereafter.

Similar letters in each figure indicate corresponding parts.

This invention consists in the construction of a turn-table for windmills, to be placed on top of a suitable post, provided with suitable bearings for the wheel-shaft; and its novelty consists in the arrangement and combination, with a wind-wheel, of a cross-head, provided with a socket to fit on top of the post, and braces, which are attached at their lower ends to a thimble, forming a durable and efficient turn-table, hereinafter more fully set forth.

In the drawings, A represents the post; B, the wind-wheel. C represents the cross-head, (shown clearly in Fig. 3,) to which the braces J J are firmly attached. These braces extend down the post A to the thimble S, to which they are also firmly attached. A top view of the thimble S is shown in Fig. 4. The socket

t in the center of the cross-head C fits down over the end of the post. The post is provided with a suitable cap, i, on which the cross-head rests. (See Fig. 2.) The wind-wheel B is attached to the shaft d, and is provided with a brake-wheel and other suitable appliances for operating the same, which is fully described in Letters Patent which were granted to me May 5, 1874, No. 150,489.

The vane n is attached between the braces J J at their upper ends, which are bent over slightly for that purpose.

By this mode of constructing a turn-table for windmills I am enabled to produce a table that is easily acted upon by the wind. The very slightest change in the course of the wind by means of the vane n causes the table to turn in that direction, keeping the face of the wheel always in the right position to get the full force of the wind.

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

In combination with a wind-wheel, a turn-table composed of the vane n, cross-head C, provided with the socket t, braces J J, and thimble S, all constructed substantially as shown, and for the purpose set forth.

E. S. SMITH.

Witnesses:

THOS. J. PRICE,
JOHN H. MOORE.