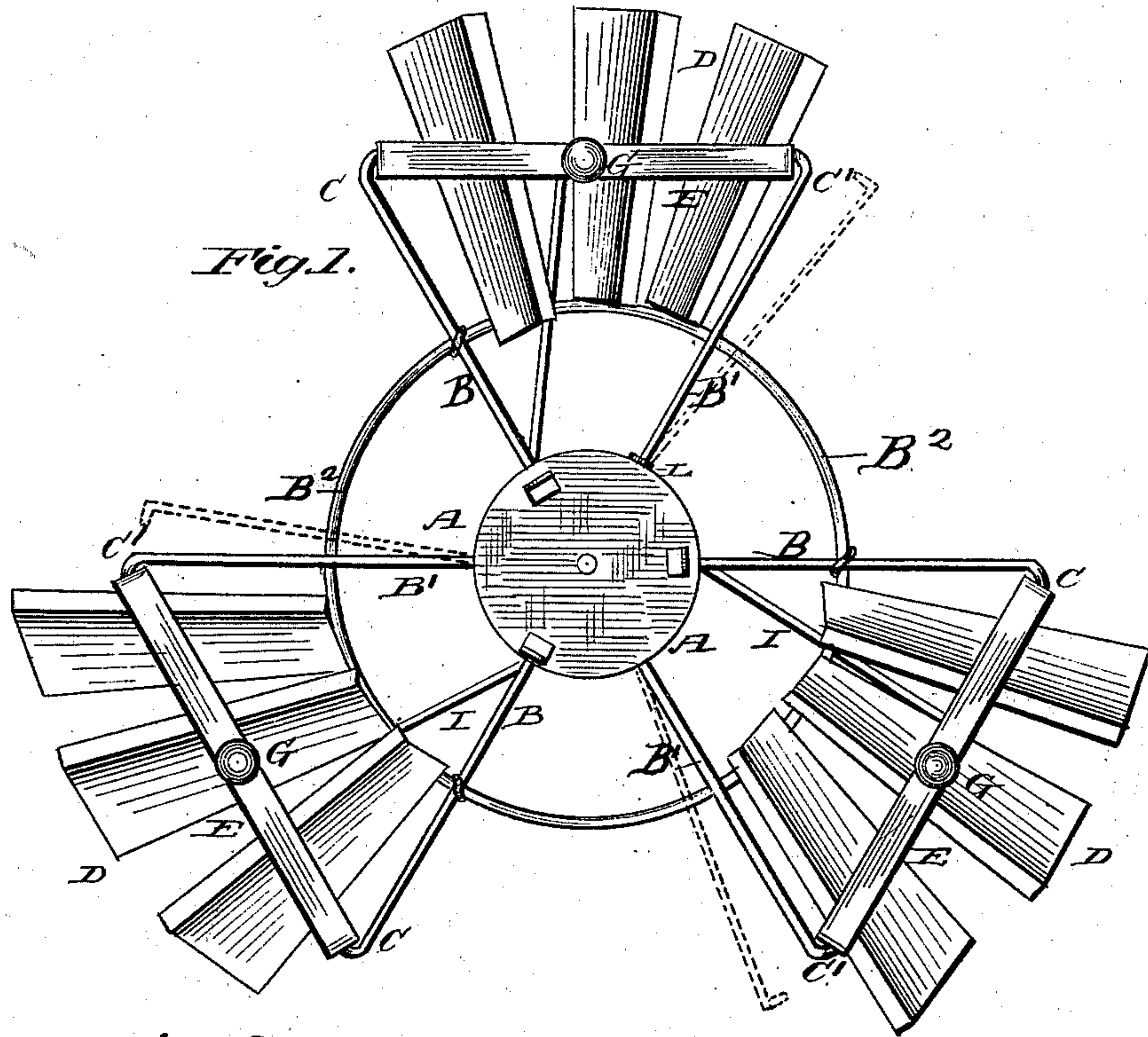


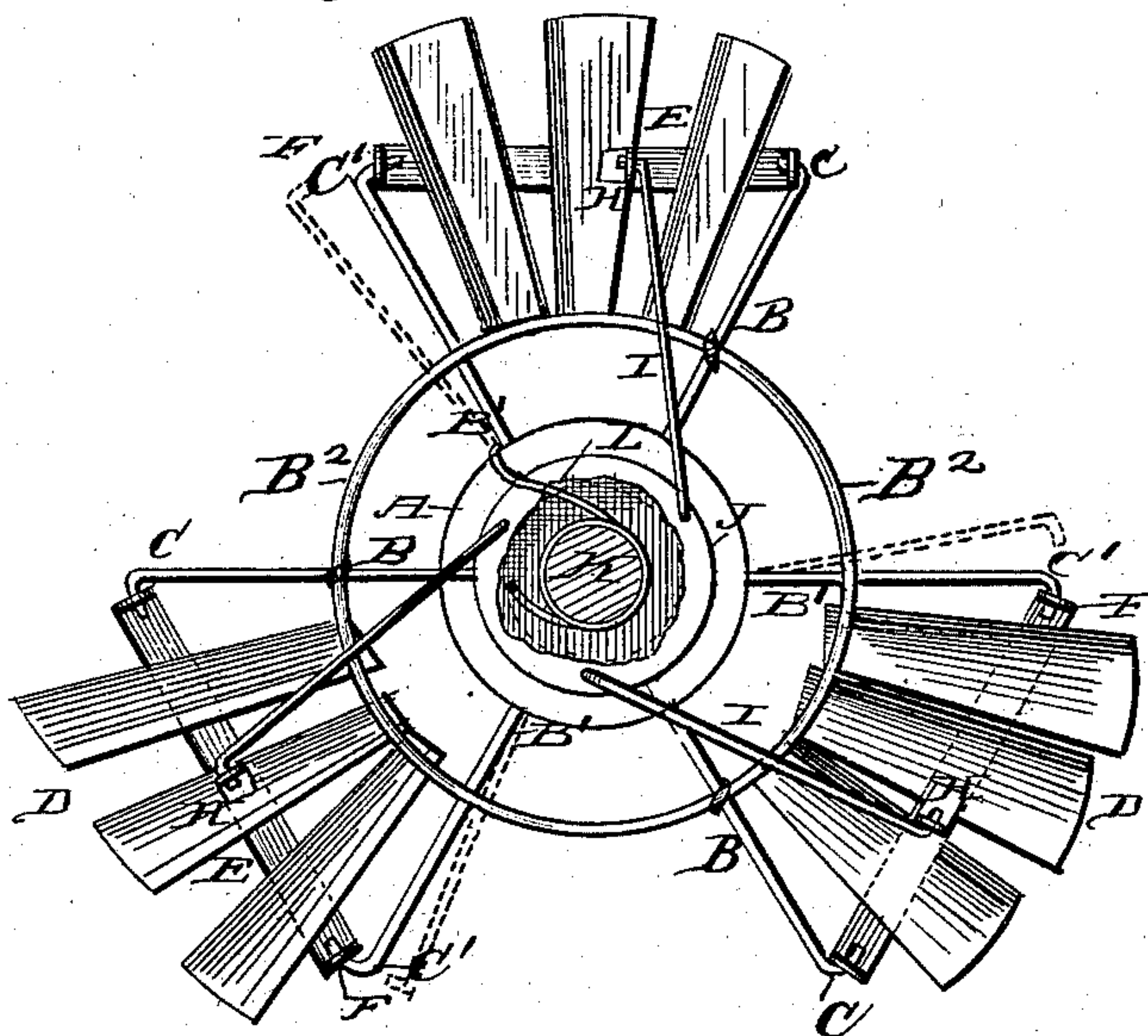
J. A. CREASEY.  
Wind-Wheel.

No. 217,070.

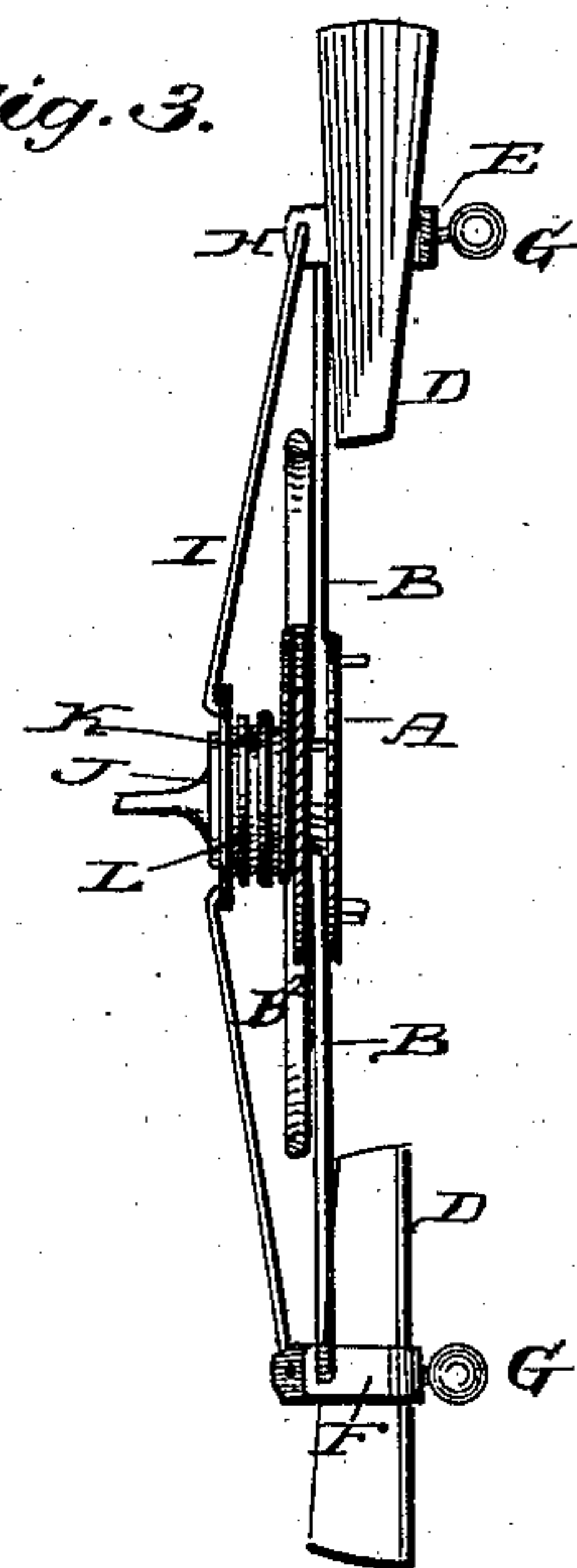
Patented July 1, 1879.



*Fig. 2.*



*Fig. 3.*



Witnesses;  
Ed. G. Dieterich  
J. R. Little

Inventor;  
John A. Creasey  
per C. A. Snow & Co.  
Atty's.



# UNITED STATES PATENT OFFICE.

JOHN A. CREASEY, OF NORBORNE, MISSOURI.

## IMPROVEMENT IN WIND-WHEELS.

Specification forming part of Letters Patent No. **217,070**, dated July 1, 1879; application filed January 14, 1879.

*To all whom it may concern:*

Be it known that I, J. A. CREASEY, of Norborne, in the county of Carroll and State of Missouri, have invented certain new and useful Improvements in Wind-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a front view of the wheel. Fig. 2 is a rear view of the same, and Fig. 3 is a cross-section taken through the center.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to wind-wheels; and it consists in certain improvements in the construction of the same, which will be hereinafter more fully described, and particularly pointed out in the claim.

In the drawings, A represents the central disk or hub, to which are secured the inner ends of the radiating spring-rods B B<sup>1</sup>, arranged, as shown, in sets of two, having hooked ends C C', which in each set face each other. The rods B B are connected by a ring or band, B<sup>2</sup>, to which each of said rods is firmly and solidly secured, thus rendering it rigid, while the rods B<sup>1</sup> B<sup>1</sup> are free to play laterally, as indicated in dotted lines in the drawings. The hooked ends C C' of the rods B B<sup>1</sup> form pivots for the sections D of the vanes. Each section D is provided with a cross-bar, E, having at the ends brackets F, by which they are pivoted upon the hooked rods, as shown.

By this construction and arrangement the vane-sections may be put in place by simply springing the rods B<sup>1</sup> aside sufficiently to adjust the pivots. Any vane-section may, therefore, readily and at any time be detached for repairs or for other purposes.

It will also be observed that the ring B<sup>2</sup> forms a support for the lower ends of the vanes

when at rest, thus preventing them from springing out of position.

The cross-bar of each section D is provided upon the front side with a centrally-located weight, G, and upon the rear side it has a perforated lug, H, connected by a pivoted rod, I, with some point at the periphery of a disk, J, rotating upon the shaft, to the end of which the wheel is secured. Upon a drum, K, attached to disk J, is wound a spring, L, one end of which is secured to disk J and the other to the hub of wheel A.

When in strong wind the wheel rotates more rapidly than is desirable, the weights G will, by the centrifugal force thus generated, turn the vane-sections upon their pivots, thus presenting their edges to the wind and lessening its effects. Gradually as the speed slackens the tension of spring L, exerted upon disk J and rods I, will, through these, tend to restore the vanes to their normal position.

The construction of my improved wind-wheel is, as will be seen from the foregoing, exceedingly simple, and the operation of the governor is certain and at all times automatic.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The hub A, having radiating spring-rods B B<sup>1</sup>, arranged in sets of two, and having hooked ends C C', facing each other in each set, in combination with the ring or band B<sup>2</sup>, connecting the rods B B, which are rigidly attached to said ring or band, and the vane-sections D D, pivoted upon the hooks C C', substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN A. CREASEY.

Witnesses:

GEO. R. MAGEE,  
W. L. BRESLER.