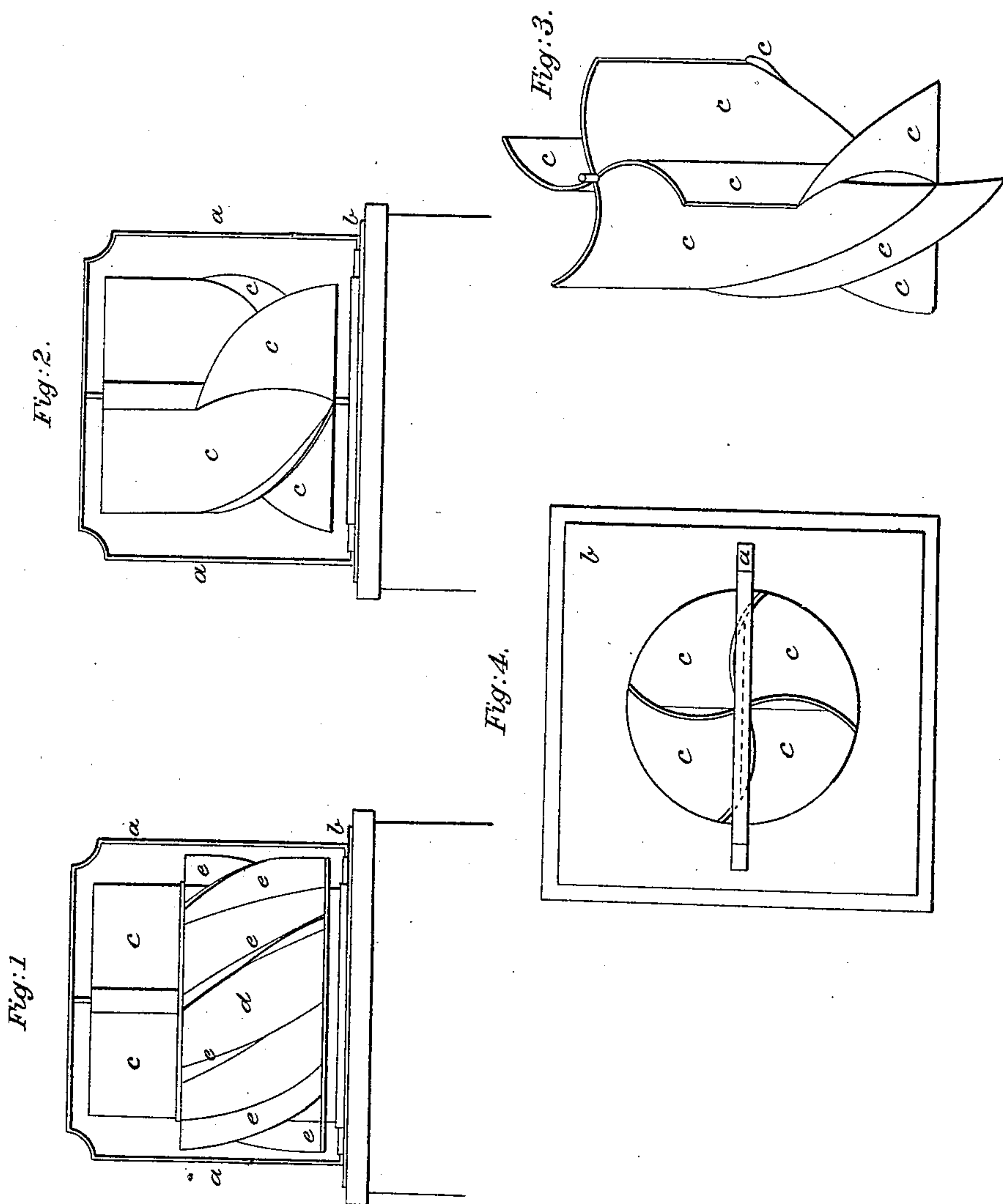


*W. Creutzfeldt,
Water Wheel,*

Nº 5356.

Patented Nov. 6, 1847.



UNITED STATES PATENT OFFICE.

WILLIAM CREUTZFELDT, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN CHIMNEY-CAPS.

Specification forming part of Letters Patent No. 5,356, dated November 6, 1847.

To all whom it may concern:

Be it known that I, WILLIAM CREUTZFELDT, of the city and county of Washington, in the District of Columbia, have invented new and useful Improvements in Chimney-Caps, Ventilators, &c.; and I do hereby declare that the following is a full, clear, and exact description of the principle or character which distinguishes it from all other things before known, and of the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of the cap on a chimney; Fig. 2, an elevation of the revolving spiral wings with the outer case removed; Fig. 3, a perspective view of said wings, and Fig. 4 a plan thereof.

The same letters indicate like parts in all the figures.

The nature of my invention consists in furnishing a smoke or ventilating flue with an apparatus that shall cause a current constantly up said flue by means of inclined revolving wings that are put in motion by the wind when blowing from any quarter without a directing-vane or other apparatus that is always liable to be blown down by a high wind.

The construction is as follows: A plate *b* is made to cover the top of the flue, having a circular hole through its center the size of the revolving wings. To this plate is affixed a frame *a*, consisting of two upright posts and a cross-piece at top and bottom directly over

the center of the hole through the plate above named. In these cross-pieces of the frame are the bearings for an upright shaft, on which spiral wings *c* are fixed. These wings are set at an angle of sixty degrees, more or less, and their upper ends may be made to run parallel with the shaft, as is clearly shown in Fig. 2. These upper parts of the wings are concave. The lower parts are plain and are surrounded by a cylindrical case *d*, which revolves with them. On the outside of this cylinder *d* spiral vanes or wings *e* are attached, projecting out radially and standing at an angle of about sixty degrees, more or less. The upper ends of these wings are curved into concave form to facilitate the action of the wind on them. A wind from any quarter will cause a cap thus constructed to revolve, by which an upward current is drawn through the flue by means of the spiral wings within the cylinder.

What I claim as my invention, and desire to secure by Letters Patent, is—

The revolving chimney-cap constructed substantially as herein described, having spiral wings placed over a flue within a short cylindrical case, on the outside of which are wings acted on by the wind, by which the whole are caused to revolve when the wind is in any quarter without a directing-vane, as above specified.

W. CREUTZFELDT.

Witnesses:

J. J. GREENOUGH,
B. FRANKLIN CASTON.