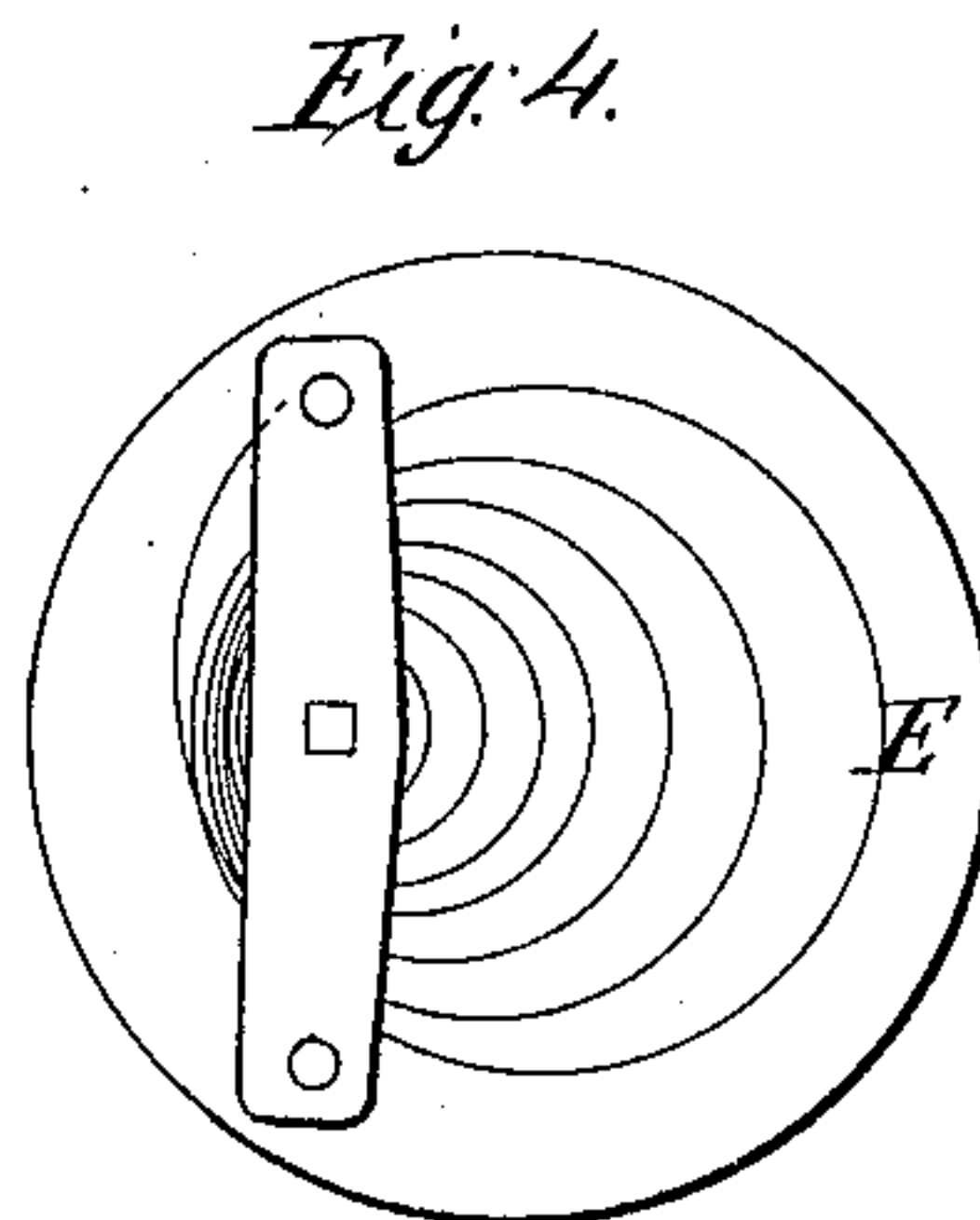
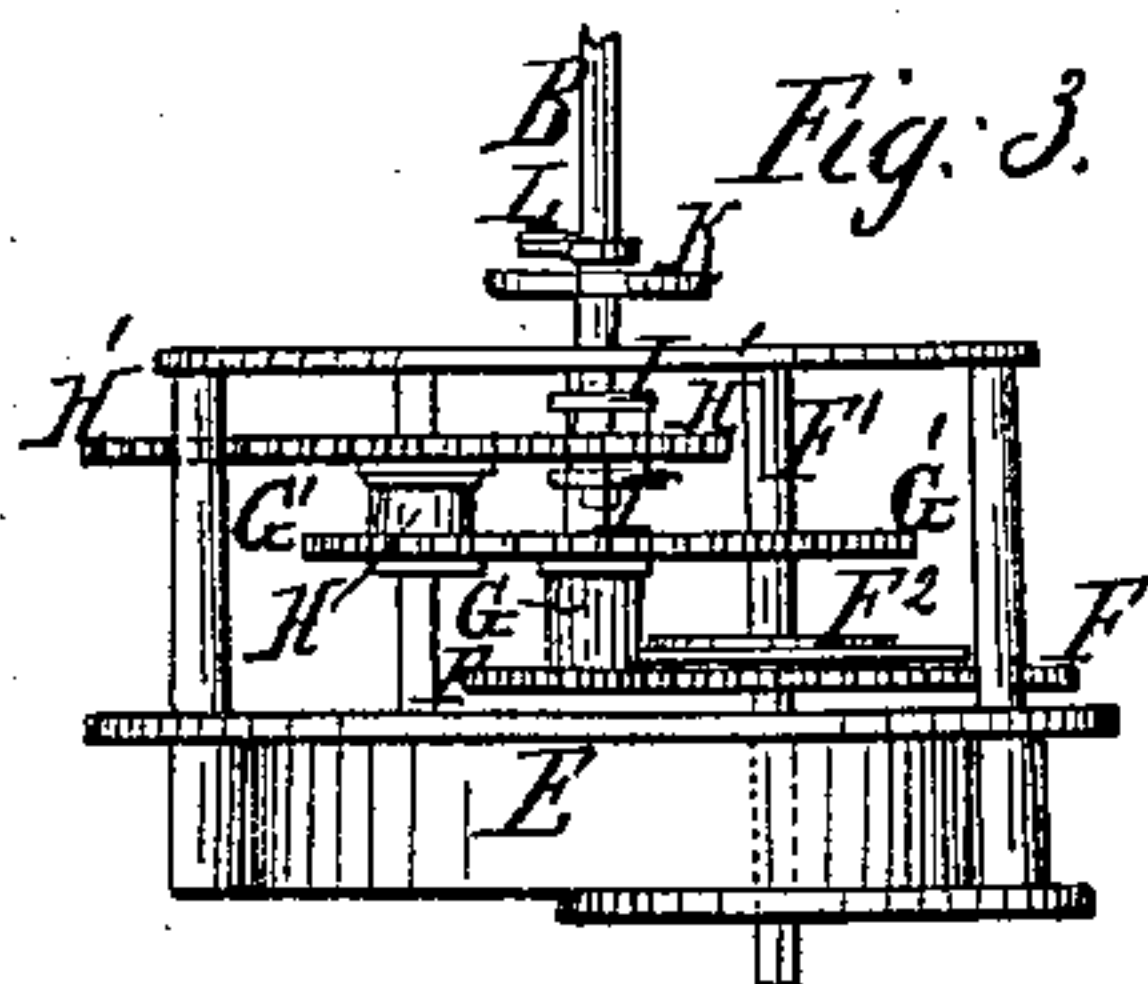
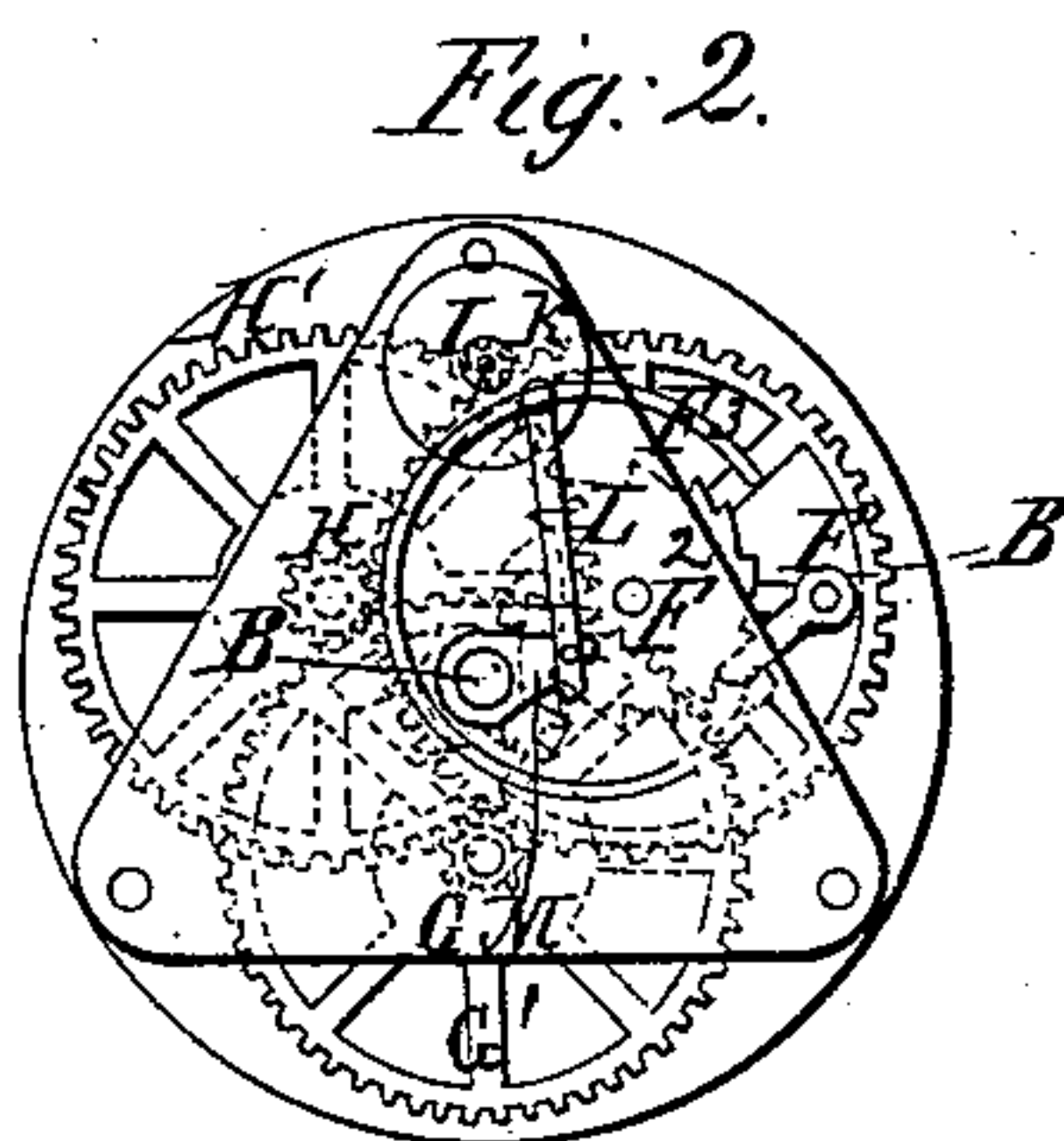
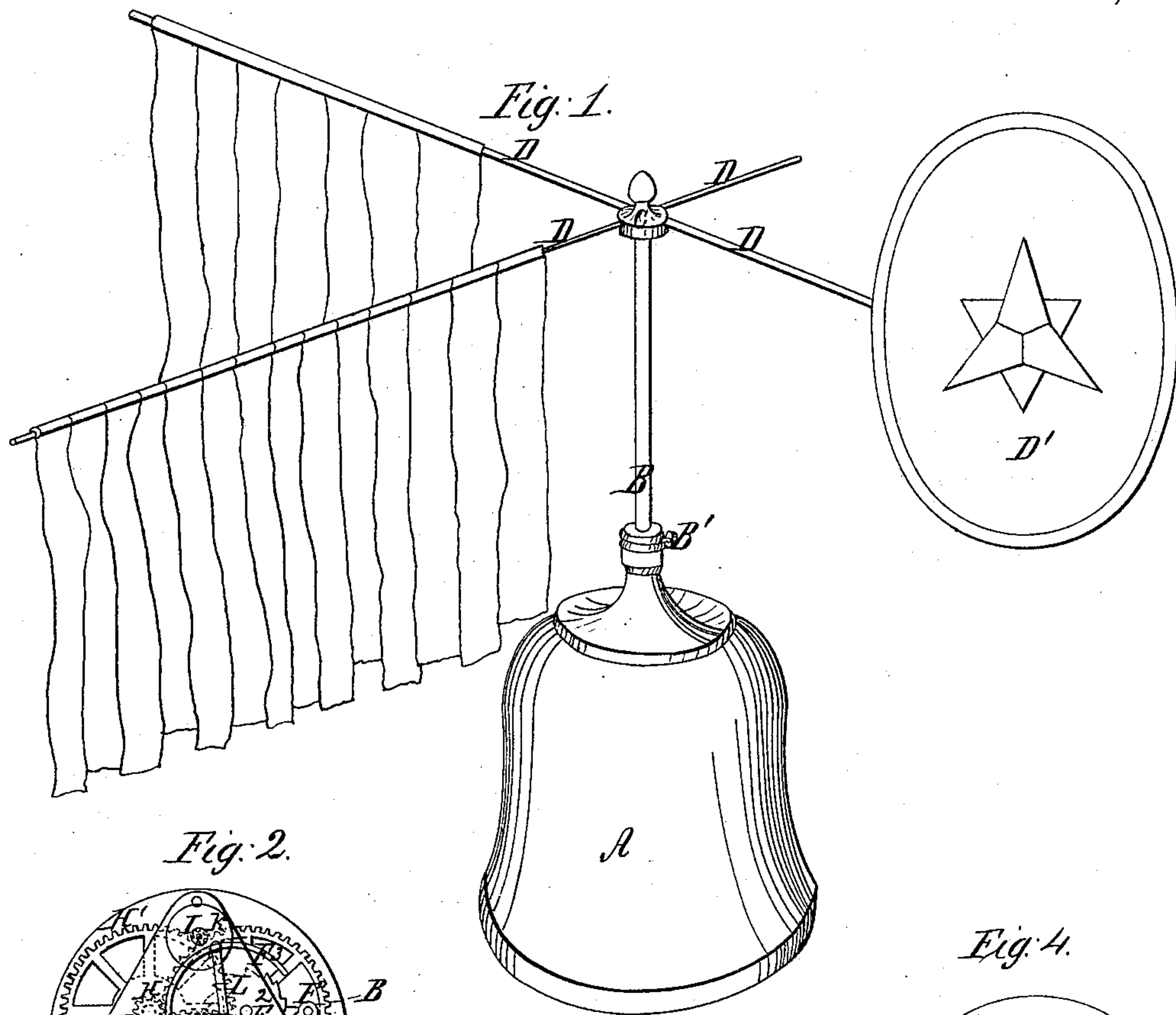


B. Poulson, Automatic Fan,

N^o 60,554.

Patented Dec. 18, 1866



Witnesses;
J. Alderson.
Lawrence A. Murphy

Inventor;
Britten Poulson
by
D. P. Hollaway & Co
his attys.

United States Patent Office.

IMPROVED FAN, BRUSH, AND RACK.

BRITTON POULSON. OF FORT WAYNE, INDIANA.

Letters Patent No. 60,554, dated December 18, 1866.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, BRITTON POULSON, of Fort Wayne, in the county of Allen, and State of Indiana, have invented a new and useful combination of Fan, Fly-Brush, and Rack for showing fancy articles; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being made to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a plan of the gearing.

Figure 3 is a side elevation of same; and

Figure 4 is a bottom view.

In the several figures the same letters are used in indicating identical parts.

The object of this invention is to give a reciprocating vibratory motion to radial arms, on which may be suspended the wings of a fly-brush, or to which may be attached a fan, or for carrying fancy articles intended for exhibition, also for drying clothes, or other analogous uses.

A is a bell-formed base containing within the mechanism necessary for giving a vibratory revolution to the rod B, to the head, C, of which are attached radial arms, D, which oscillate horizontally with the motion of the shaft B. This motion is communicated by clock-work placed in the base A, actuated by a coiled spring E, which turns the shaft F', carrying with it the wheel F, gearing into the pinion G, on the same shaft with the wheel G', which is geared into the pinion H, on the shaft with the wheel H', which gears into the pinion I, on the shaft which carries the plate-wheel or crank K. To the crank-pin is attached the pitman L, the other end of which is attached to a pin on the arm M, fastened to the bottom of the rod B, which stands on a step, permitting its free rotation. The object of the clock-work is to give a reciprocating revolution to the shaft B. This is attained by means of the crank, K, which revolves with the action of the clock-work, giving a reciprocating motion to the pitman L, which communicates a reciprocating rotary motion to the arm M, and shaft B, and through these to the arms D, on which the wings or articles for exhibition are suspended, or which carry fans, D'. B' is a set-screw for stopping the shaft B.

I do not claim broadly for operating a fan or fly-brush by clock-work so arranged as to communicate a reciprocating motion, for I am aware that this has been done by others. My invention consists in a novel and convenient arrangement of the parts by which a reciprocating rotary motion is communicated to radial arms, which may be made to carry fans or fly-brushes, or for the other objects hereinbefore mentioned; and the novelty consists in the compactness of the arrangement and cheapness of construction, by which all these various purposes may be accomplished in one and the same apparatus.

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

The hereinbefore described arrangement of parts, consisting of the bell-formed base A, rod B, set-screws B', head C, and radial arms D, when said base also encloses the actuating clock-work, constructed as described, communicating, by means of the crank-wheel K, rod L, and arm M, a rotary reciprocating motion to the rod B and arm D, in the manner and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BRITTON POULSON.

Witnesses:

J. M. N. SMITH,
DANIEL VOLLMER.