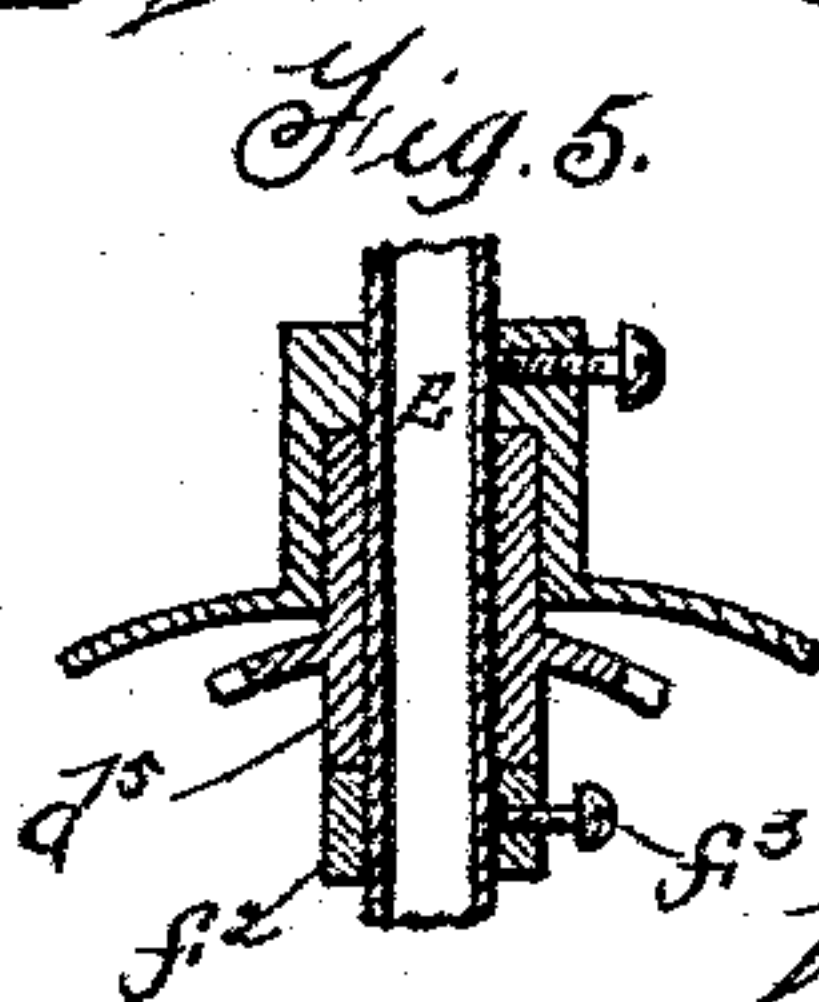
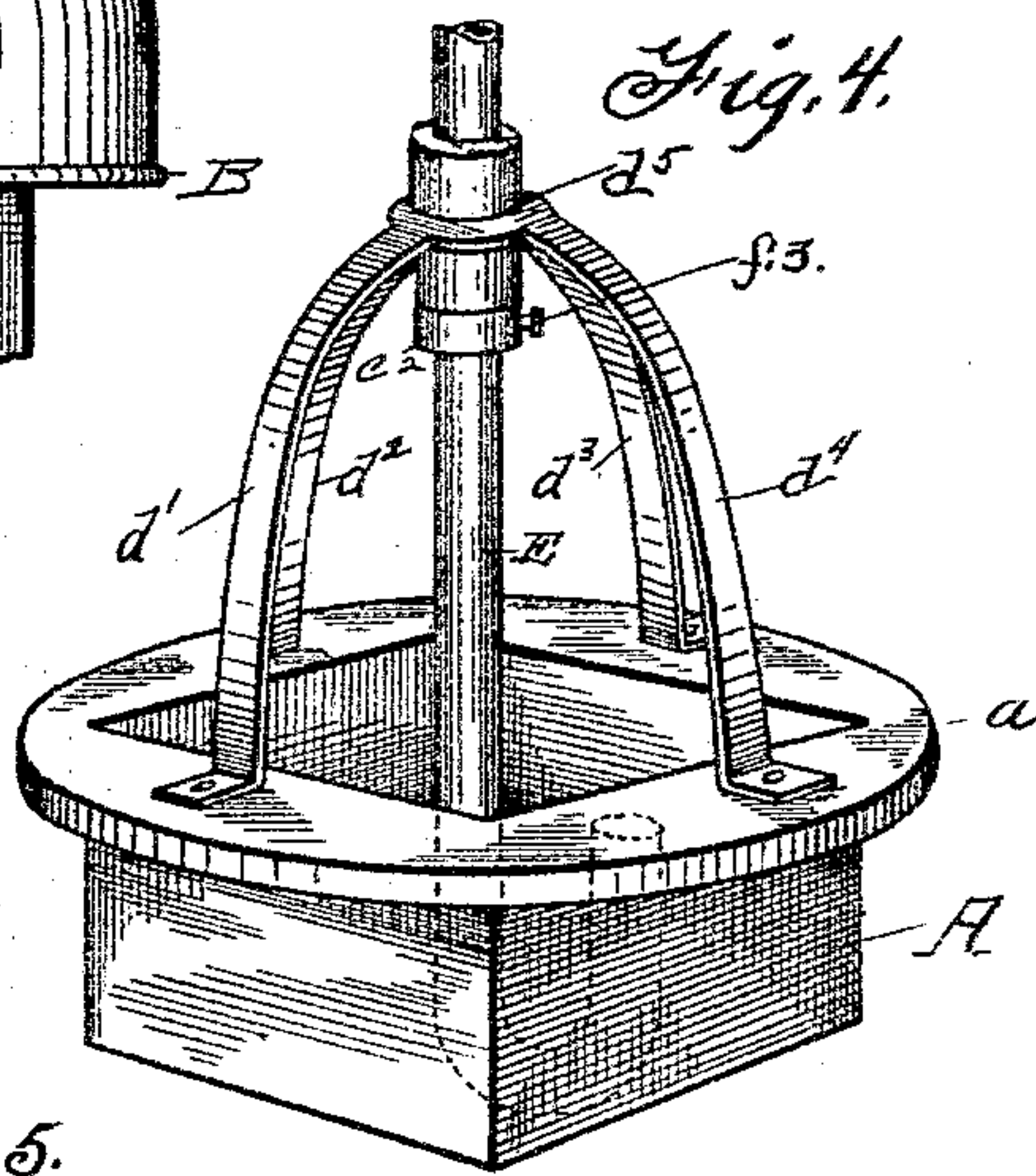
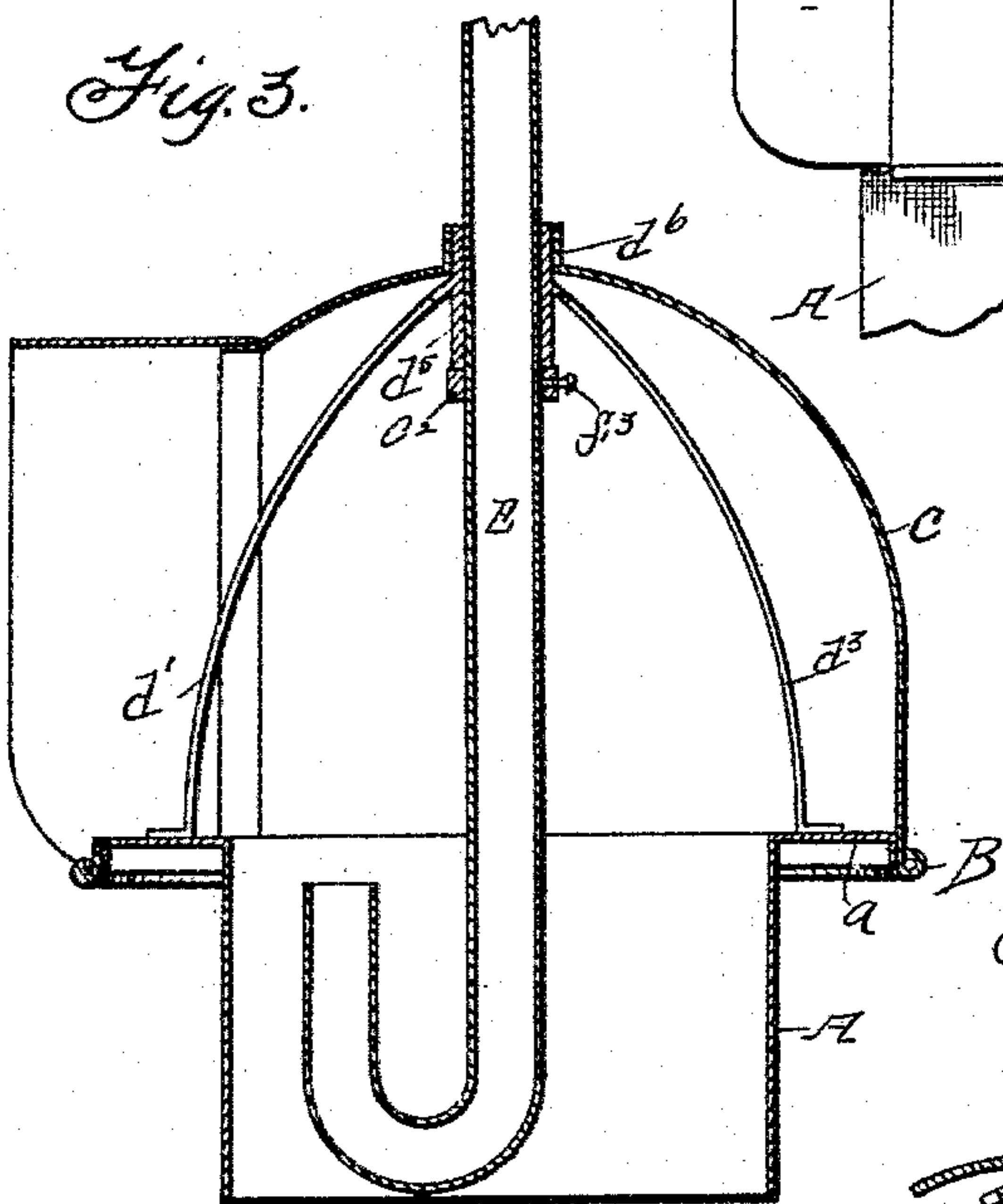
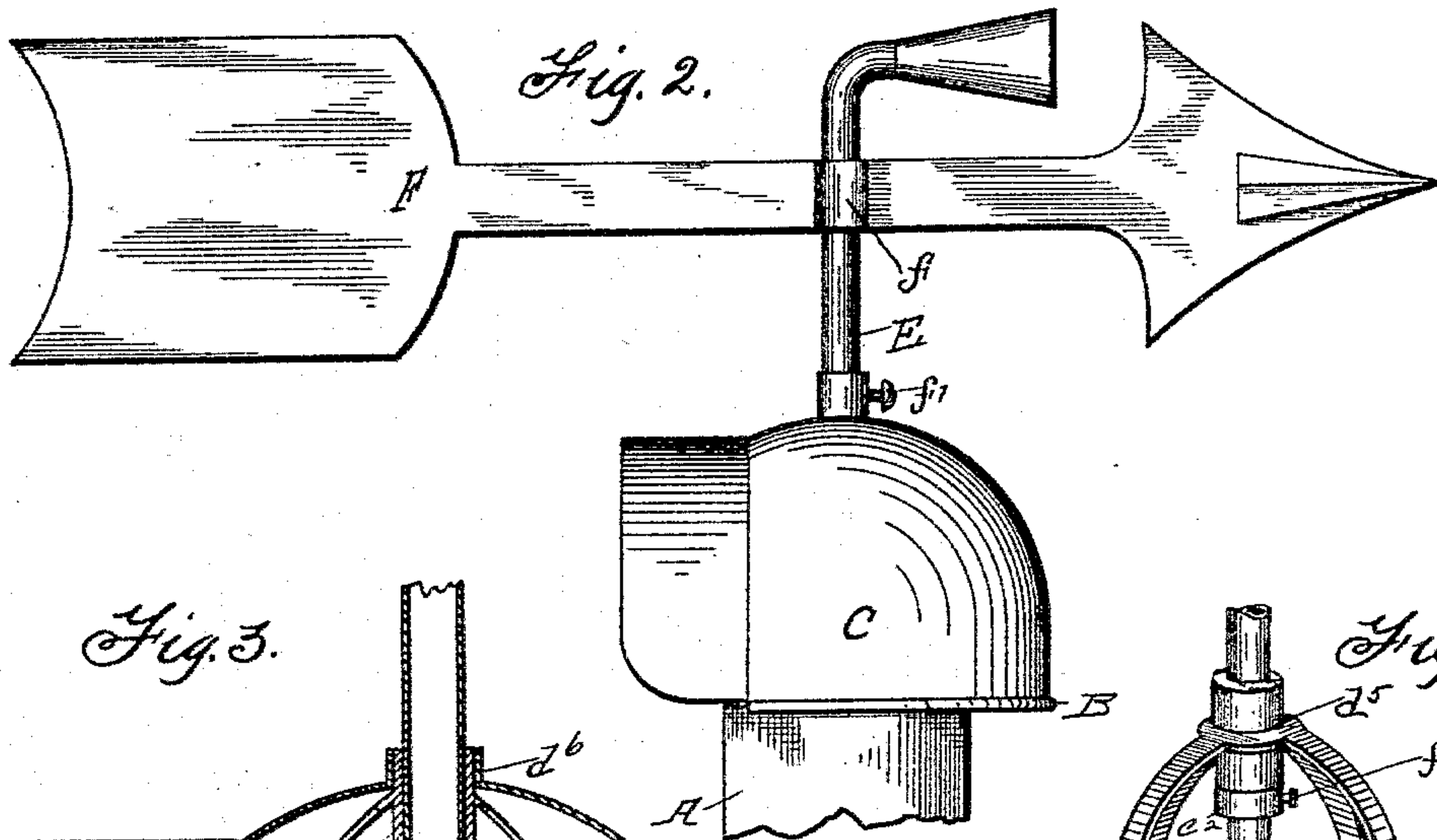
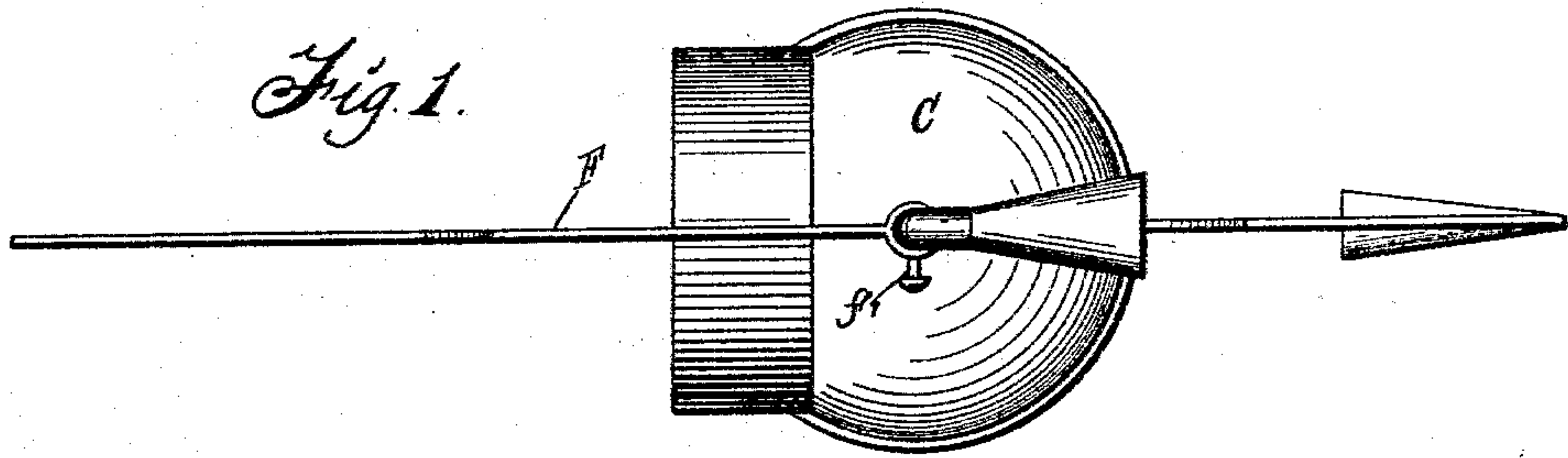


(No Model.)

W. F. LA FOLLETT.
FLUE CAP.

No. 494,815.

Patented Apr. 4, 1893.



Witnesses:-
W. R. Smith.
E. M. Fitzpatrick.

Inventor:-
Woodson F. LaFollett.

UNITED STATES PATENT OFFICE.

WOODSON F. LA FOLLETT, OF BALLARD, MISSOURI.

FLUE-CAP.

SPECIFICATION forming part of Letters Patent No. 494,815, dated April 4, 1893.

Application filed September 23, 1892. Serial No. 446,691. (No model.)

To all whom it may concern:

Be it known that I, WOODSON F. LA FOLLETT, of Ballard, Bates county, Missouri, have invented certain new and useful Improvements in Flue-Caps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to cowls or chimney caps for shielding the top of the chimney from blasts of wind and rain, and it especially relates to means for supporting the vane and cowl, and for admitting a jet of air to the interior of the latter, as an accessory in educting the smoke and other volatile products of combustion.

The object of my invention is to provide a simple, inexpensive and durable construction and arrangement of parts which will quickly respond to the varying direction of the wind currents.

In the accompanying drawings,—Figure 1. is a top plan of a chimney cowl of the form embodying my invention; Fig. 2. a side elevation of the same; Fig. 3. an enlarged vertical central section; Fig. 4. a perspective view of a chimney box or curb, and the bracket or frame for supporting the cowl and other revolving parts; Fig. 5. an enlarged sectional elevation of the joint and bearing for supporting the said revolving parts.

The box or curb A. of the chimney is exteriorly of the dimensions of the interior of the chimney and snugly fits therein; the upper circular flange *a* projecting beyond the brick work to form a clear track or turn table; to receive an encircling ring B at the lower edge or rim of the hood C which latter is of the usual cowl shaped pattern. A bracket frame D consisting of four wrought iron arched strips *d'* *d''* *d'''* *d''''* joined to a central hub *d⁵* and bolted at their extremities each to the flange *a* and to one side of the chimney thus providing a secure support and upper bearing at *d⁶* for the upwardly extended bearing *c'* with its inwardly projection collar *c²* resting upon said upper bearing at the top of the cowl as shown in Fig. 5, and also forming a support for the tubular shaft E of a vane F secured thereto at *f* and secured to the cowl to turn therewith by a set screw F' as shown in Figs. 3, 4 and 5. The hub *d⁵* extends some distance

below the upper bearing within which the tubular shaft E may be securely supported and freely turn, a collar F² secured by a set screw *f* serving to hold the said shaft from endwise motion or from being lifted from its seat. The tubular shaft E extends a short distance above its point of union at F with the vane, and is bowed forward in the direction of the point of the vane and terminates in a funnel or trumpet mouthed end toward the wind.

The tubular shaft E is carried downwardly a sufficient distance into the chimney to cause an upward draft therein, by the escape of a jet of air from it, and the distance may be regulated to suit the height of the chimney to which it is applied, by raising or lowering the tubular shaft in its bearings by means of the set screw *f'* of the collar *c²* below the bearing *d⁵* thus also permitting the vane to be raised or lowered to the required height above the cowl.

The lower end of the tubular shaft E is bent upwardly in an opposite direction from that of the upper end so that its discharge end is always adjacent to the discharge opening of the cowl, thus to insure a direct exit for the smoke, and other volatile products of combustion. The adjustment hereinbefore described of the elevation or depression of the discharge nozzle to any required point relative to the top of the chimney to suit the height and the cross sectional dimensions of the chimney.

My invention will be equally applicable to ordinary flues such as stove pipes, where they are extended up through the roof of the building, also to large smoke stacks made of sheet metal used by manufacturing establishments, &c.

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

1. The combination in a ventilator, having a curbing to fit within the upper end of the chimney, and a circular flange or table at its upper end, and a series of arched strips, and a vertically arranged hub at their upper ends, of a revoluble ventilator tube, having a trumpet or flaring mouth at its upper end and having its lower end bent upwardly and to the opposite side of the tube from the open trumpet or flaring mouth, and a wind vane secured to the tube adjacent to the trumpet mouth

and pointing in the same direction, with a cowl open at the side adjacent to the bent lower end of the tube, and having an opening in its top surrounding the vertically supported hub, and a collar at the upper side of said cowl and a set-screw passing through said collar and securing the cowl to revolve with the tube, and an adjustable collar upon the tube and bearing against the lower end of the vertical hub, substantially as set forth.

2. In a ventilator, the combination with a hub vertically supported over the opening at

the upper end of a chimney of a ventilating tube, vertically adjustable through said hub, and having a trumpet or flaring mouth at its upper end, and having its lower end bent upwardly, substantially as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

WOODSON F. LA FOLLETT.

Witnesses:

J. W. CHOATE,

R. J. STARKE.