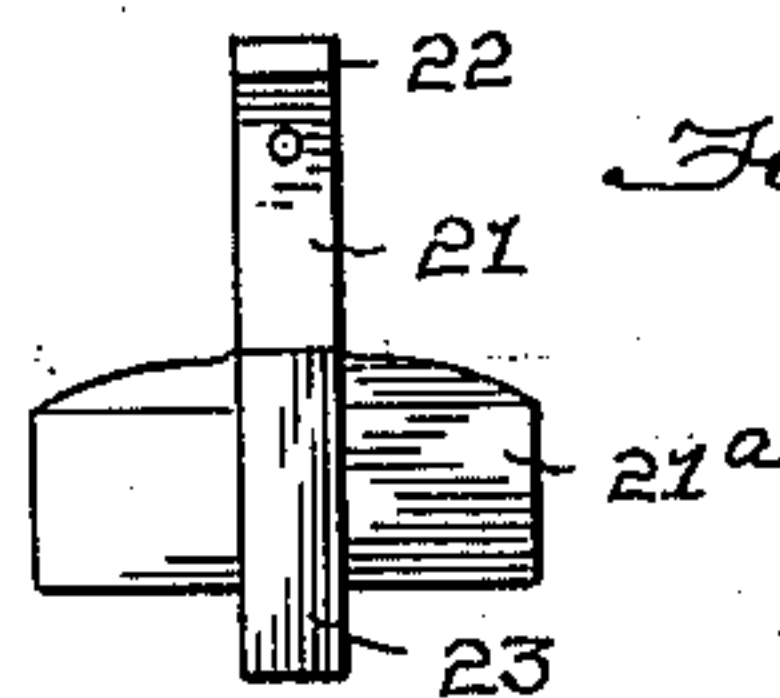
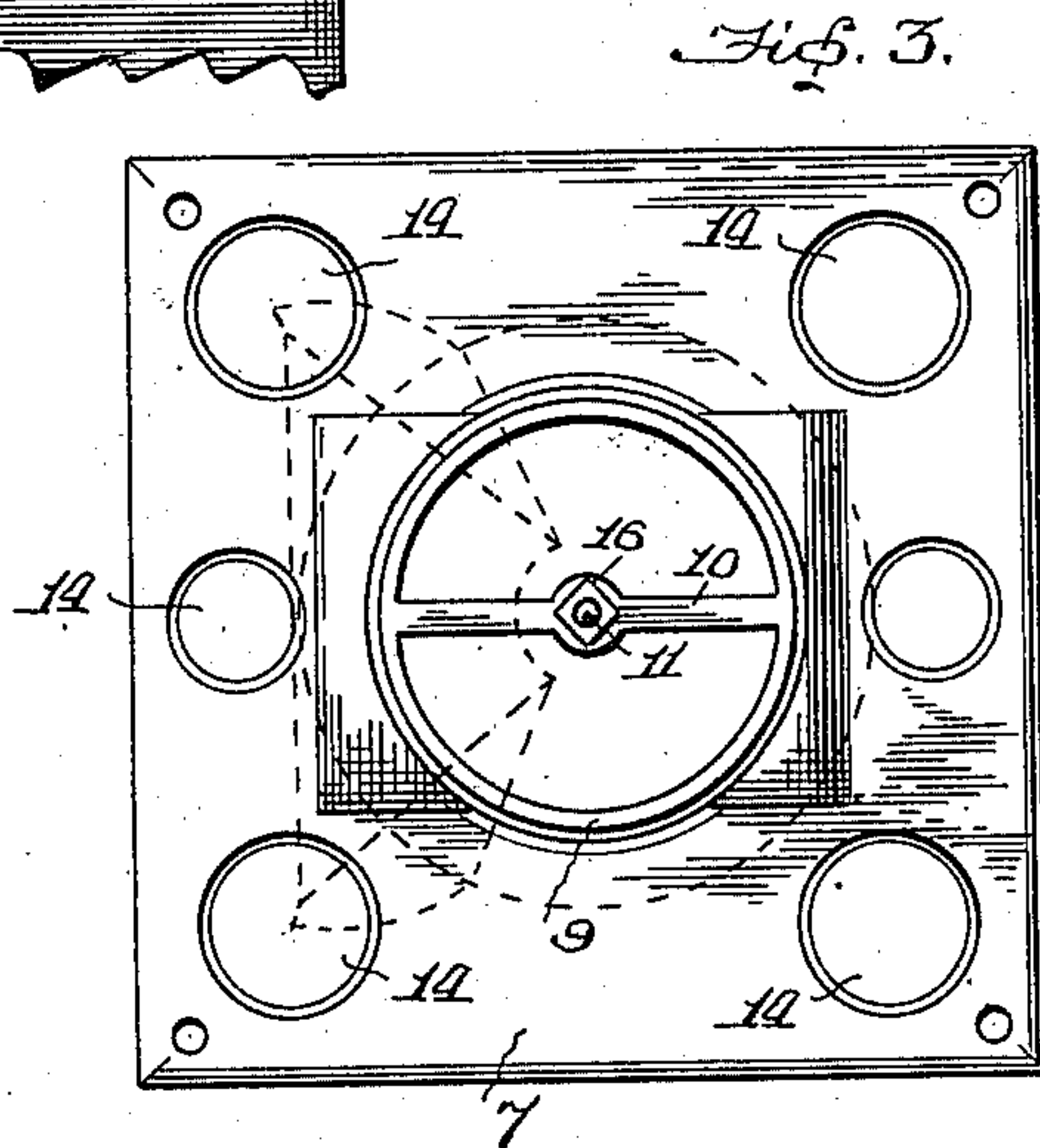
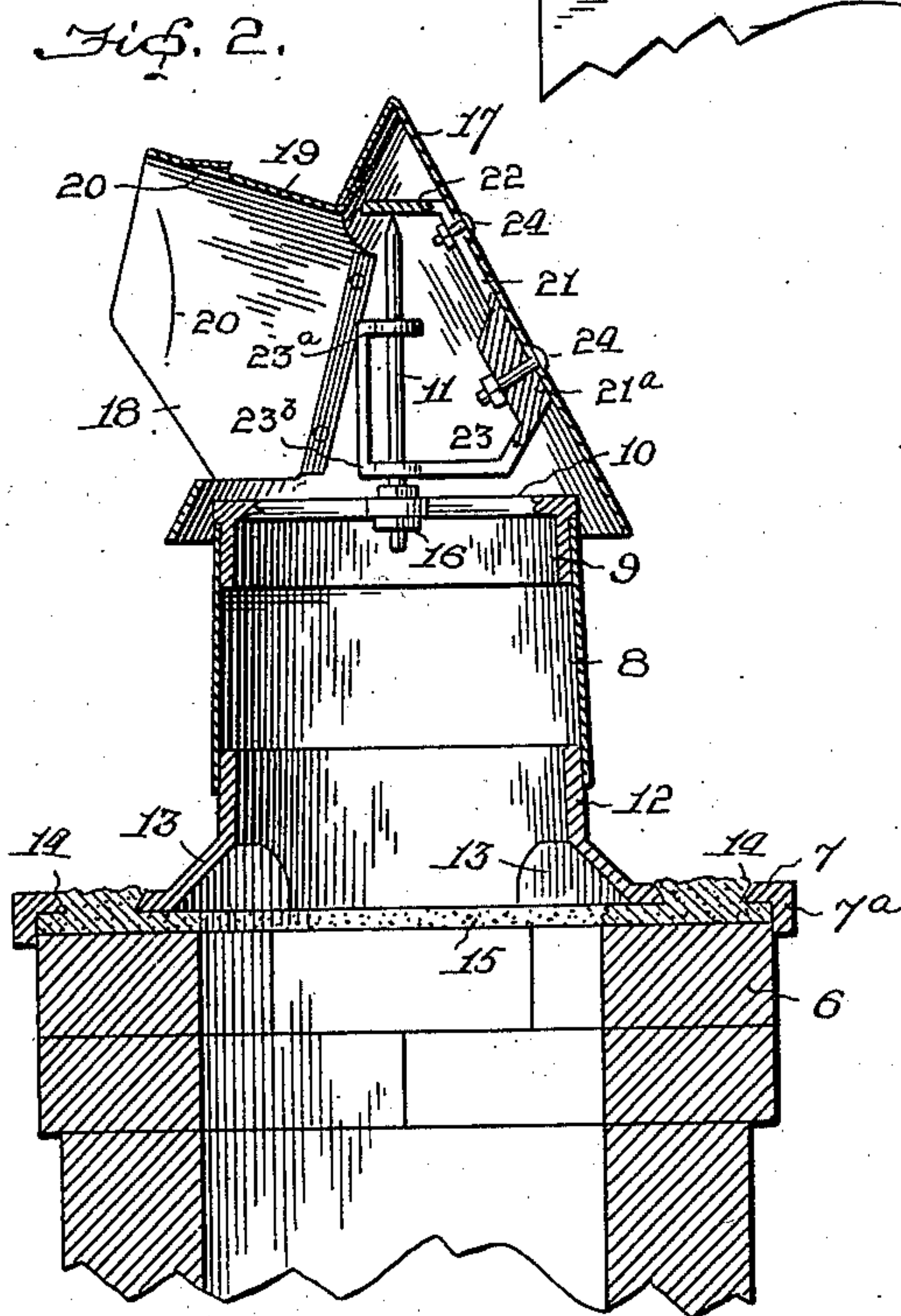
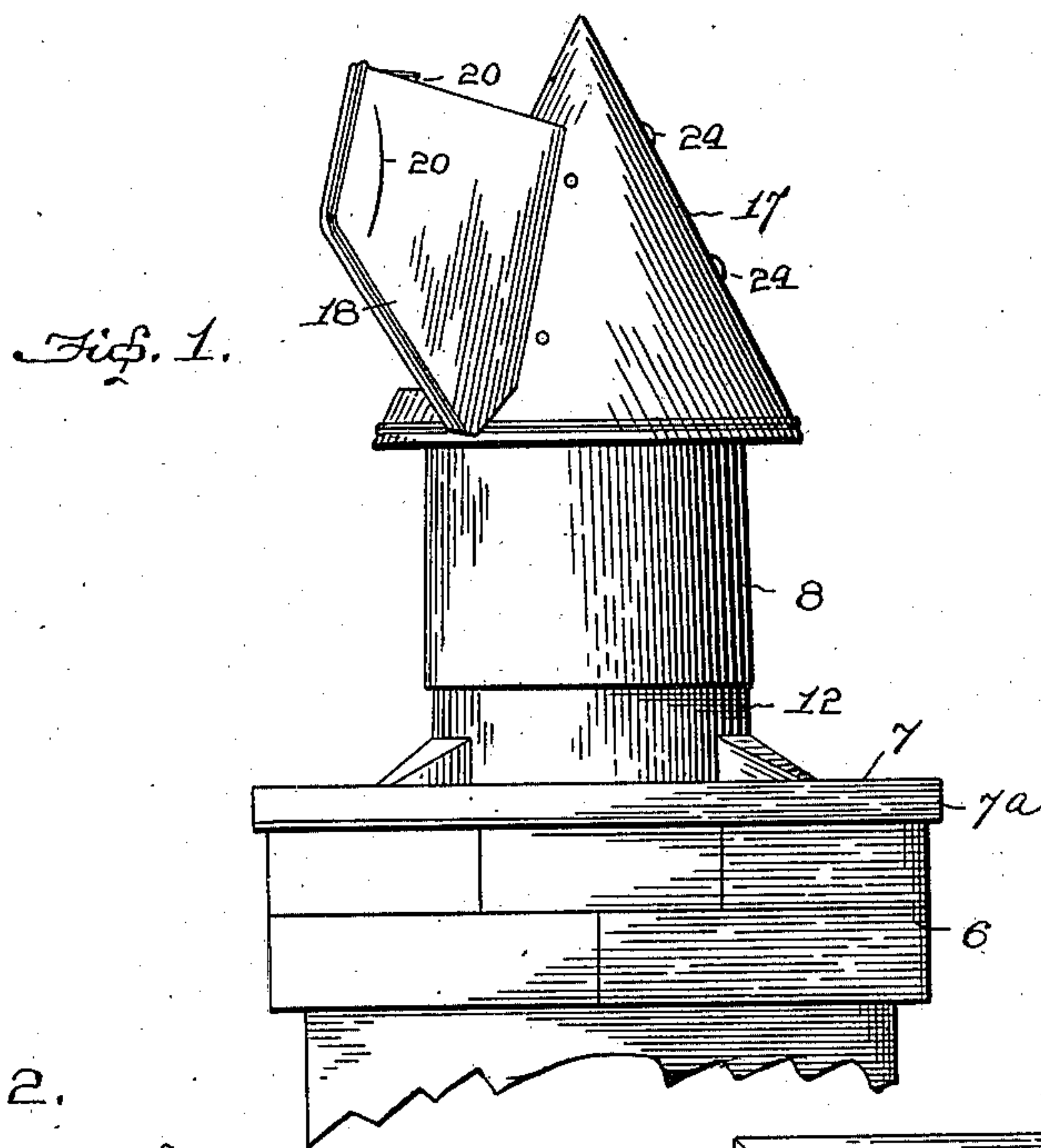


J. W. MEIXELL.
CHIMNEY TOP.
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964,040.

Patented July 12, 1910.



Witnesses

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CHIMNEY-TOP.

964,040.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN W. MEIXELL, a citizen of the United States, residing at Lewisburg, in the county of Union and State of Pennsylvania, have invented a Chimney-Top, of which the following is a specification.

The primary object of my invention is to provide an improved rotary chimney cap and supporting means therefor, in which the cap will be easily turned so as to locate the outlet opening away from the wind and induce an updraft in the chimney, and in which said cap is so shaped that currents of air striking the same from any direction will not affect the proper drawing of the chimney.

A further object of the invention is to provide an improved form of supporting-base which can be readily and conveniently applied to the top of the chimney and will be firmly and securely held in place.

Other objects and advantages of the invention will hereinafter appear, and what I claim as novel will be specifically set forth in the appended claims.

In the accompanying drawings, which form a part of this specification: Figure 1 is a side elevation, showing the application of my invention. Fig. 2 is a vertical transverse sectional view. Fig. 3 is a plan view of the supporting-base. Fig. 4 is a detail, hereinafter referred to.

Like numerals of reference indicate like parts in all the figures of the drawings.

As illustrated in the drawings the device may be applied to a chimney which is topped off with the usual coping 6, and in carrying out my invention the supporting-base which is adapted to be set upon the top of the chimney and support the rotary cap hereinafter described consists of three parts, to wit: a bottom plate 7, a collar 8, and a ring 9, the latter fitting in the upper end of the collar and is provided with a cross-bar 10, from the center of which rises a vertical spindle 11. The bottom plate 7 is of a size approximating the top of the chimney, and is provided with a depending outer rim 7^a which fits around the chimney forming a drip table. This bottom plate is also provided, centrally, with an upwardly projecting annular flange 12, upon which the collar 8 is fitted, offsets 13 being provided at opposite sides where the flange joins the body of

the plate. For the purpose of securing the bottom-plate upon the chimney it is provided with a number of openings, as 14, which are beveled outward upwardly so as to form a locking joint for the cement, as 15, upon which the bottom plate is set. As will be seen by reference to Fig. 2 the bottom plate is set upon a bed of cement, 15, and pressed down so that some of the cement will be forced up into the openings 14, the cement which fills the openings being troweled so that when it becomes set it will interlock with the base plate. The spindle 11 is secured to the cross-bar of the ring 9 by means of lock-nuts 16, so that it may be adjusted with respect to the bearing-bracket, hereinafter described, attached to the cap, the upper end of the spindle being tapered to a point, to form a pin-point bearing.

The cap 17 is conical and is provided on one side with the usual outlet opening, and from the sides and top of the latter project connected wings 18 and 19, the side wings 18 depending below the outlet opening in the cap, and the upper transverse wing 19 flared slightly upward. The several wings are each preferably provided with a long narrow opening 20, for the purpose of inducing an updraft in the chimney. In the present instance each opening is formed by slitting the wing, preferably on the arc of a circle, and bending the metal at the outer edge of the slit upwardly (see Fig. 2). In this manner currents of air which strike against the outer surface of the wings enter the slits and in passing out induce a draft in the chimney.

For the purpose of supporting the cap upon the spindle 11 I provide a bracket comprising an attaching plate or member 21, having a horizontal bearing-arm 22 at its upper end and a bearing-arm 23 at its lower end, the latter being bent to form spaced apart bearing portions 23^a and 23^b, the upper bearing portion 23^a being located a suitable distance below the bearing-arm 22 hereinbefore mentioned. The attaching plate or member 21 of the bearing bracket is provided at its lower end with an enlarged bracing portion 21^a, and said attaching plate or member is provided with an aperture through which pass attaching-bolts 24. This supporting-bracket is attached to the inner side of the cap opposite the outlet opening, and in applying the cap to the supporting-base

the spindle 11 passes loosely up through the bearing portions of the bent arm 23 so that the point of said spindle will bear against the under surface of the arm 22, the spindle 5 being adjusted with respect to the arms of the bearing-bracket so that the lower horizontal portion of the arm 23 will be slightly above the upper lock-nut 16, whereby the weight of the cap and its parts will be upon 10 the bearing-point of the spindle. It will be noted, therefore, that the bent bearing-arm 23 simply serves to steady the cap and hold it upon its bearing, and as the upper portion 23^a of the lower arm is some distance 15 below the main bearing-arm 22 there is no likelihood of the cap being displaced by an upward current of air.

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

1. In a chimney top, the combination with a supporting-base, of a rotatable cap having an opening at one side, wings at opposite sides of the opening slightly inclined inward 25 from bottom to top, and a transverse wing at the upper end of the opening inclined slightly upward and connected at its side edges to the aforesaid wings, the wings having openings therein formed by a slit 30 at the outer edge of which the metal of the wing is bent outwardly, substantially as shown and for the purpose set forth.

2. In a chimney top, the combination with a supporting-base, of a conical-shaped rotatable cap having an opening at one side, 35 wings projecting outwardly from the sides of the opening and extended below the lower end of the same and inclined inward from bottom to top, and a transverse wing at the 40 upper end of the opening connected to the aforesaid wings and slightly inclined upwardly, substantially as shown and described.

3. In a chimney top, the combination with a supporting-base having an upwardly-projecting spindle terminating in a point, of a 45 rotatable cap, and a bracket secured to the inner side of said cap and comprising an attaching-plate having an upper bearing-arm resting upon the point of the spindle 50 and a lower bent arm providing spaced apart bearing portions through which the spindle passes, said attaching-plate having an enlarged portion at its lower end, substantially as shown and for the purpose set forth. 55

4. In a chimney-top, the combination with a supporting-base, of a conical-shaped rotatable cap mounted thereon and having a rectangular opening at one side between its 60 top and bottom, opposite substantially vertically disposed side-wings extending outwardly from the cap at the sides of the opening and terminating above the same, and an inclined transverse wing extending 65 from the cap above the opening and connecting the upper ends of the side wings.

5. In a chimney-top, the combination with a supporting-base, of a conical-shaped rotatable cap mounted thereon and having a rectangular opening at one side between 70 its top and bottom, opposite substantially vertically disposed side-wings extending outwardly from the cap at the sides of the opening and terminating above and below the same, and an inclined transverse wing 75 extending from the cap above the opening and connecting the upper ends of the side-wings.

In testimony whereof I have signed my name to this specification in the presence of 80 two subscribing witnesses.

JOHN W. MEIXELL.

Witnesses:

PHILIP B. LINN,
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