

(No Model.)

E. FINCH.  
CHIMNEY TOP.

No. 462,246.

Patented Nov. 3, 1891.

Fig. 1.

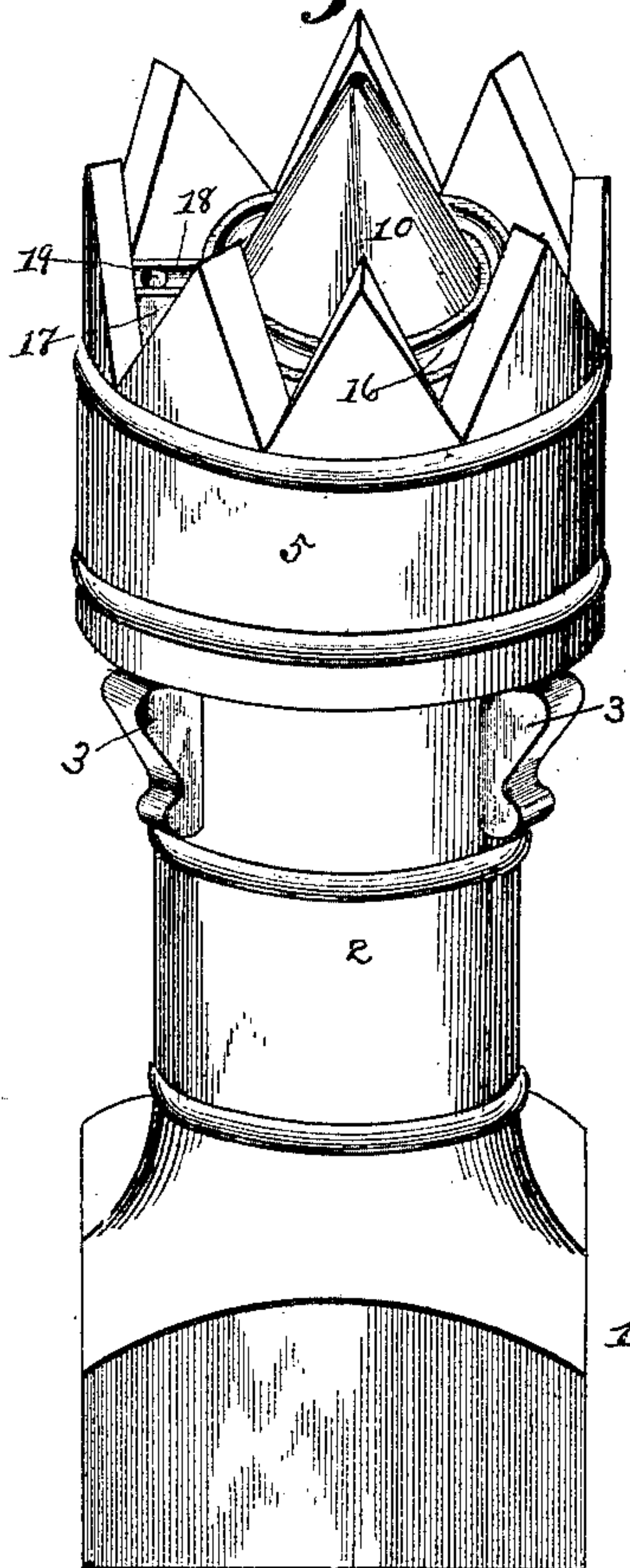


Fig. 2.

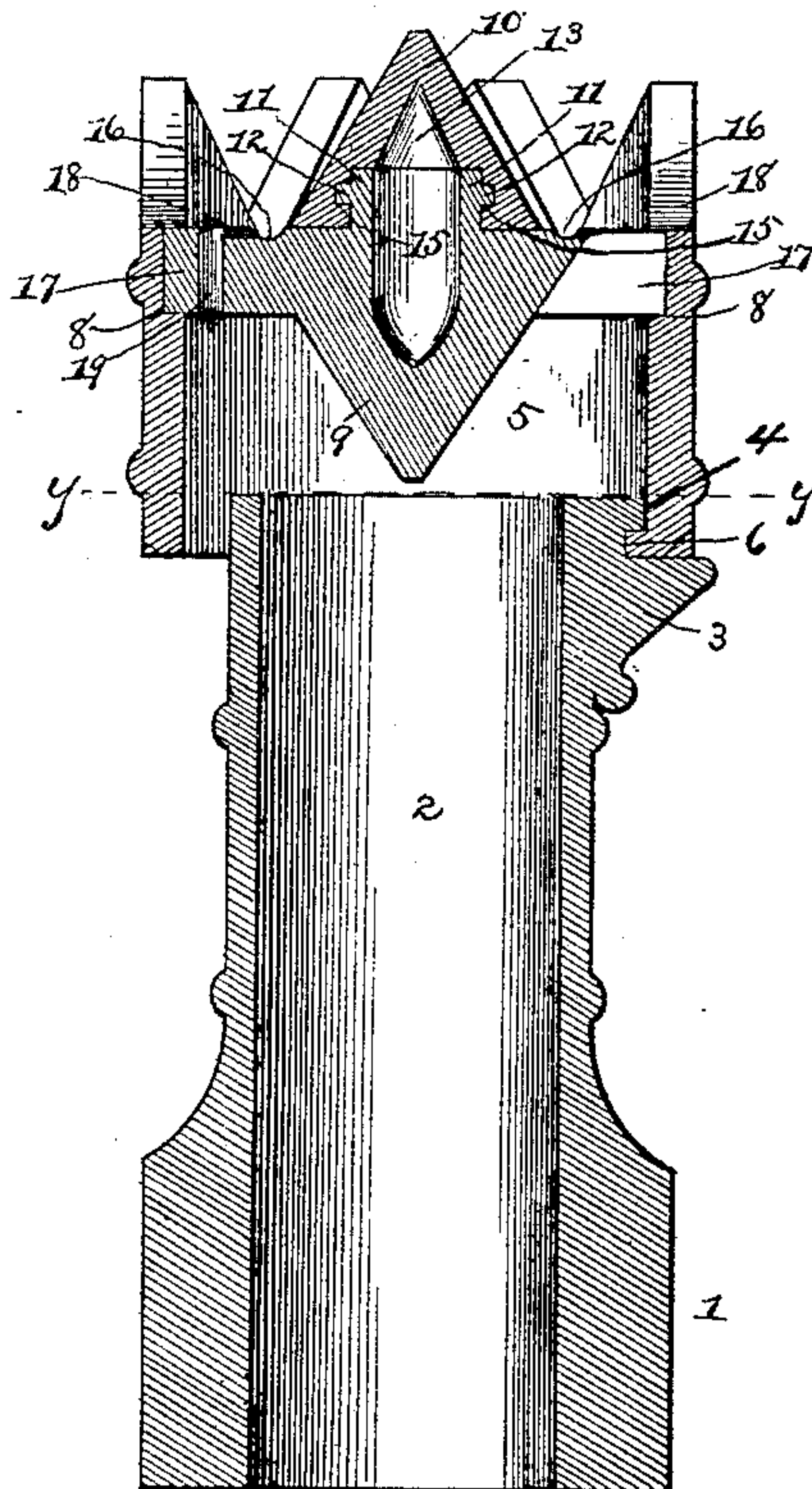


Fig. 3.

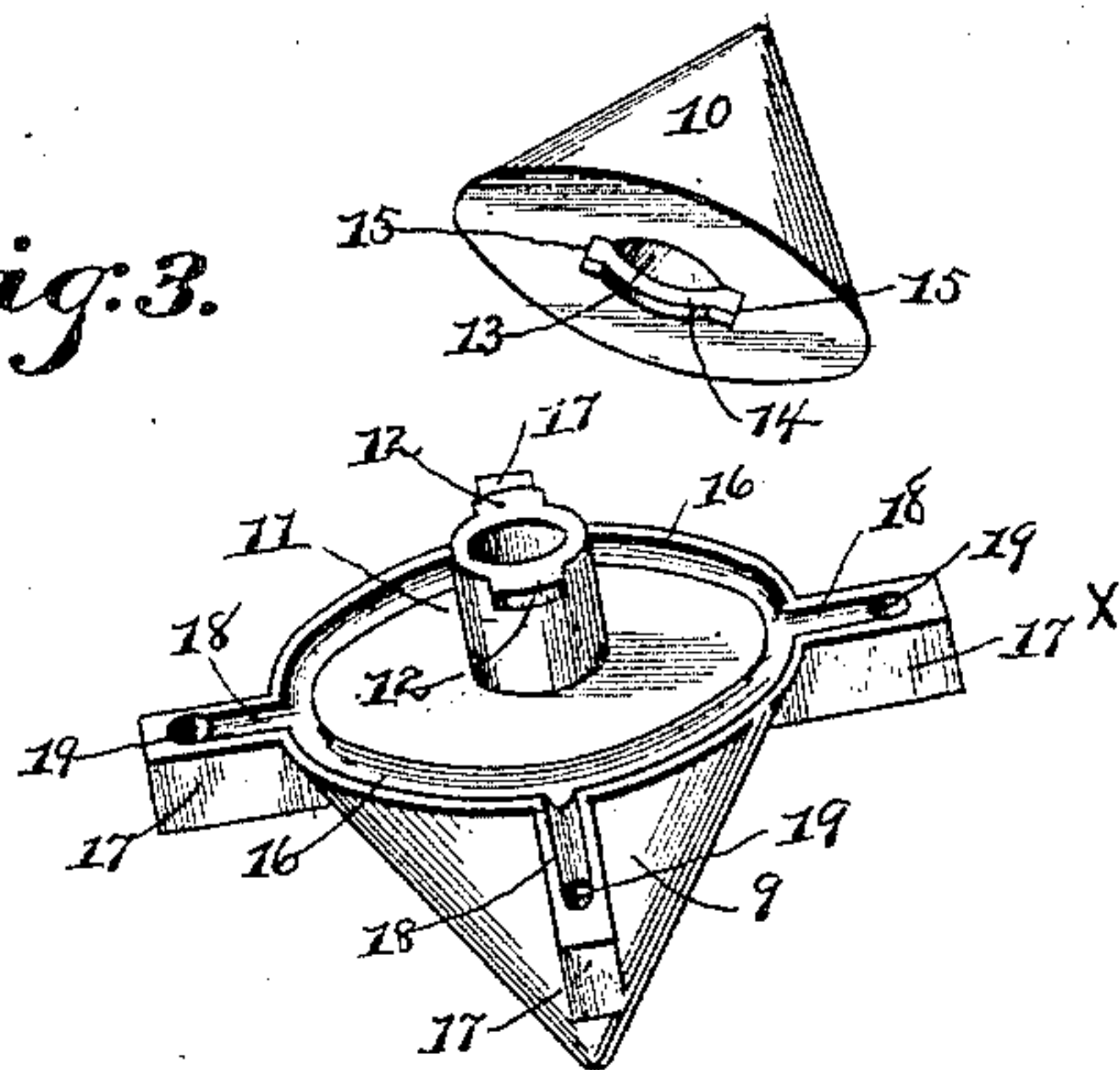
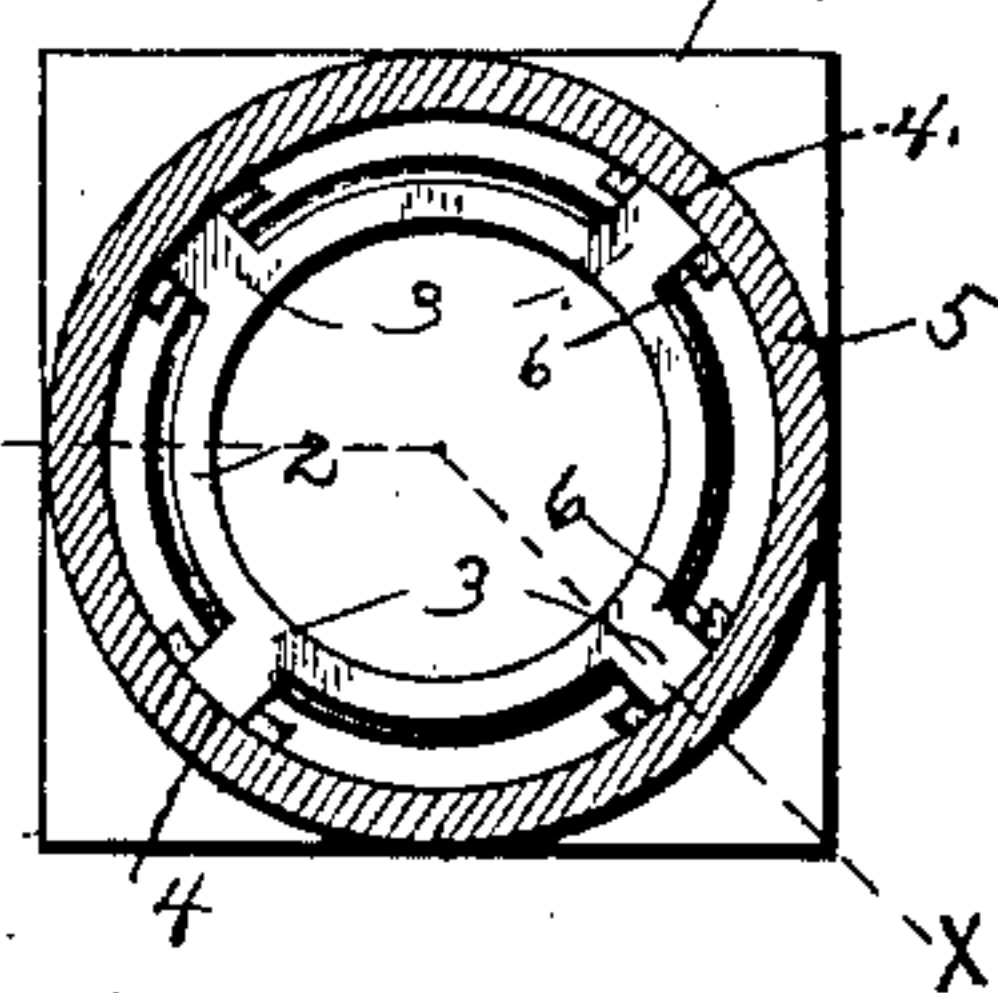


Fig. 4.



Witnesses:

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By his Attorneys,

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# UNITED STATES PATENT OFFICE.

ERNEST FINCH, OF WELLSVILLE, OHIO.

## CHIMNEY-TOP.

SPECIFICATION forming part of Letters Patent No. 462,246, dated November 3, 1891.

Application filed June 4, 1891. Serial No. 395,093. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST FINCH, a citizen of the United States, residing at Wellsville, in the county of Columbiana and State of Ohio, have invented a new and useful Chimney-Top, of which the following is a specification.

This invention relates to improvements in chimney-tops, the objects in view being to provide a chimney-top formed of clay and adapted to prevent the choking of the chimney by winds, and also to prevent the entrance to the chimney of rain and moisture.

A further object of the invention is to provide means for conveniently and in a simple manner locking the several parts composing the chimney together.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a chimney-top constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section on the line  $x x$ , Fig. 4. Fig. 3 is a detail of the conical deflector, the parts being separated to show the means of connection. Fig. 4 is a horizontal section on the line  $y y$ , Fig. 2.

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

1 designates the square base of the chimney-top, which merges into the cylindrical portion 2, which latter at intervals is provided at its upper end with external brackets 3, said brackets being of L shape to form a support and provided with forwardly-disposed shoulders 4.

5 designates the cylindrical crown-ring, the diameter of which is considerably greater than that of the chimney-top proper, said ring being adapted to encircle the upper end of said top and when in such position to rest upon the L-shaped brackets 3. Upon its inner side the top is provided with lugs or blocks 6, the same being located at intervals, and when in position a partial rotation of the crown-ring will bring the lugs in line with and under the shoulders of the brackets, so that an interlocking of the shoulders with the lugs takes place and the crown-ring is prevented from any accidental displacement by

high winds or otherwise. By reason of the discrepancy existing between the diameters of the chimney-top and the ring an annular space is formed between the two. Near its upper edge the ring is provided at intervals with recesses or seats 8 for a purpose hereinafter apparent.

The deflector consists of a lower inverted-cone-shaped section 9 and an upper removable cone-shaped section 10, the bases of the two sections meeting. The base of the lower section is provided with an annular integral collar 11, which latter is provided at diametrically-opposite sides with lugs 12. The under side or base of the upper section is provided with a countersunk recess or cavity 13, surrounded by an annular flange 14, having at diametrically-opposite sides notches 15, agreeing in size with the lugs 12 of the collar, as does also the diameter of the opening 13, as contracted by the flange 14. It will be obvious that by mounting the upper section upon the lower section the notches 15 in line with the lugs 12, and subsequently partly rotating said upper section, that the two sections will become interlocked and the upper section prevented from separation from the lower. The base of the lower section is provided with an annular gutter or groove 16, the same being located near the edge of the base and adapted to receive rain and other moisture shed by the upper conical section. At intervals arms 17 radiate from the conical side of the lower section, said arms having their upper surfaces slightly inclined from the base and provided with gutters 18, communicating with the annular gutter 16 of the lower section, said gutters 18 terminating in vertical drip passages or perforations 19, formed in the arms. The ends of the arms take into the recesses or seats 8 in the upper edge of the crown-ring, whereby the deflector is supported in position at the top of the ring. The location of the drip-passages are outside of the cylindrical top 2 and above the space formed by the top and ring, so that all water and moisture shed by the deflector is conducted by the gutters thereof and the arms and delivered through said space, where it falls to the roof. It will be seen that drafts of wind that may strike the chimney are deflected by the upper cone through the space and prevented from pass-



ing down the chimney, and that drafts of wind striking under the ring are deflected by the lower cone and pass out at the top, so that no matter what the location or low altitude of the chimney may be said chimney cannot become choked by a meeting of the smoke and downward draft therein; but all smoke will be permitted to pass upwardly and wind entering the chimney be immediately deflected out of the same.

The interlocking of the several parts permits of a cheap construction of chimney and a convenient forming of the parts, as well as great stability.

Having described my invention, what I claim is—

1. The combination, with the chimney, of a cone-shaped deflector having an annularly-grooved base and arms radiating from the base and having drainage-perforations, and grooves leading from the groove of the deflector to the perforations, substantially as specified.

2. The combination, with the cylindrical chimney having brackets and the crown-ring greater in diameter than the chimney and mounted upon the brackets, of a conical deflector, the base of which is provided with an annular groove, and arms radiating from the base and supported by the ring and having

grooves leading from that of the base to points above the space formed by the ring and chimney, substantially as specified.

3. In a chimney, a deflector formed of opposite cone-sections arranged base to base, the upper section being provided with a concavity having an internal annular flange provided with notches and the lower section with a collar adapted to fit the annular flange and provided at opposite sides with lugs for engaging the notches, substantially as specified.

4. In a chimney-top, the crown-ring provided with seats, combined with the double conical deflector having arms fitted in the seats, the base of the deflector being grooved, and the arms being also provided with grooved upper faces leading from the first-mentioned groove, and drainage-perforations in the arms communicating with the grooves, as set forth.

5. In a chimney-top, the double conical deflector formed of opposite removable sections arranged base to base and provided with a joint, as set forth.

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

ERNEST FINCH.

Witnesses:

WM. G. MURDOCK,  
A. E. BOUGH.