

No. 660,888.

Patented Oct. 30, 1900.

J. CLARKSON.  
CHIMNEY COWL.

(Application filed Feb. 15, 1900.)

(No Model.)

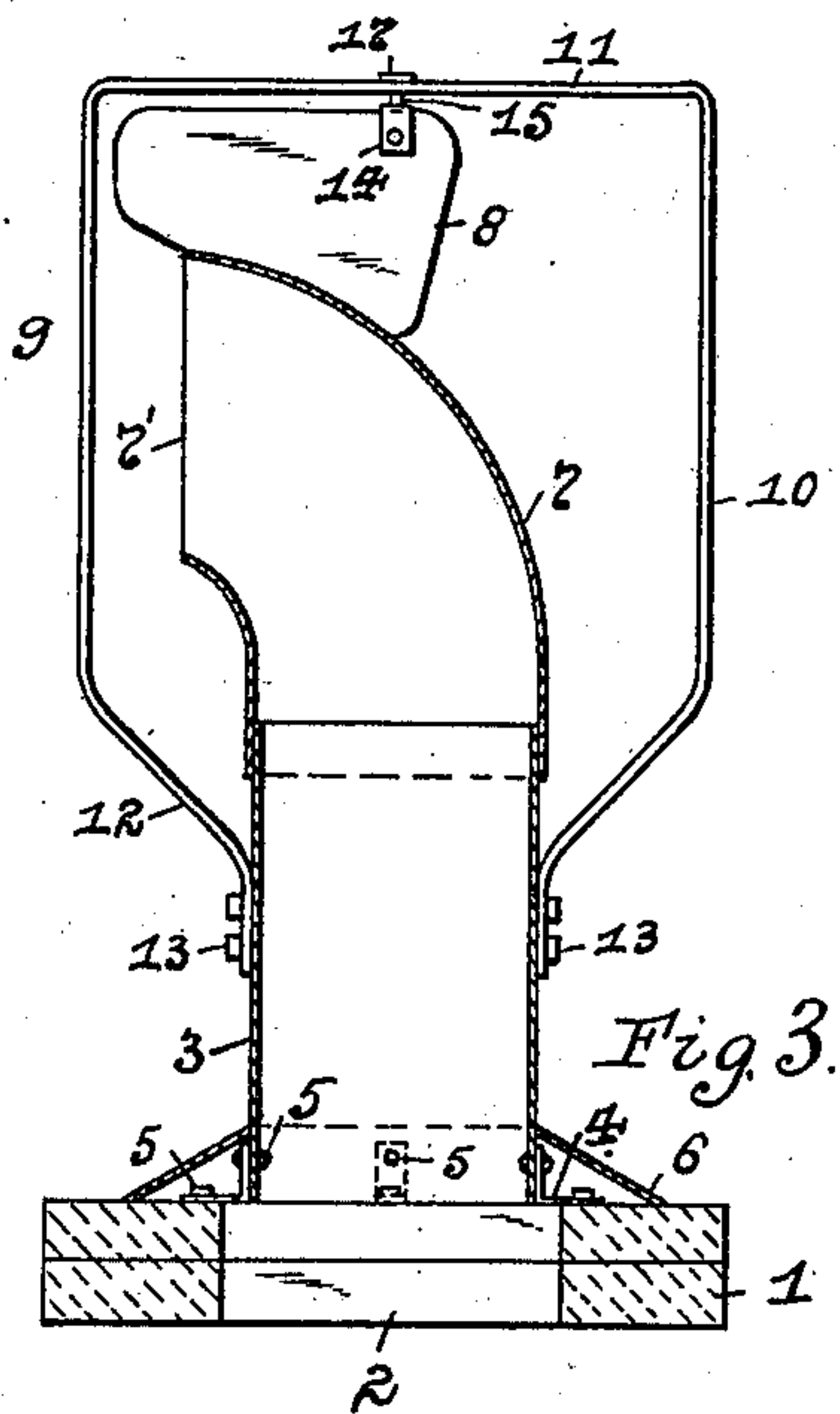
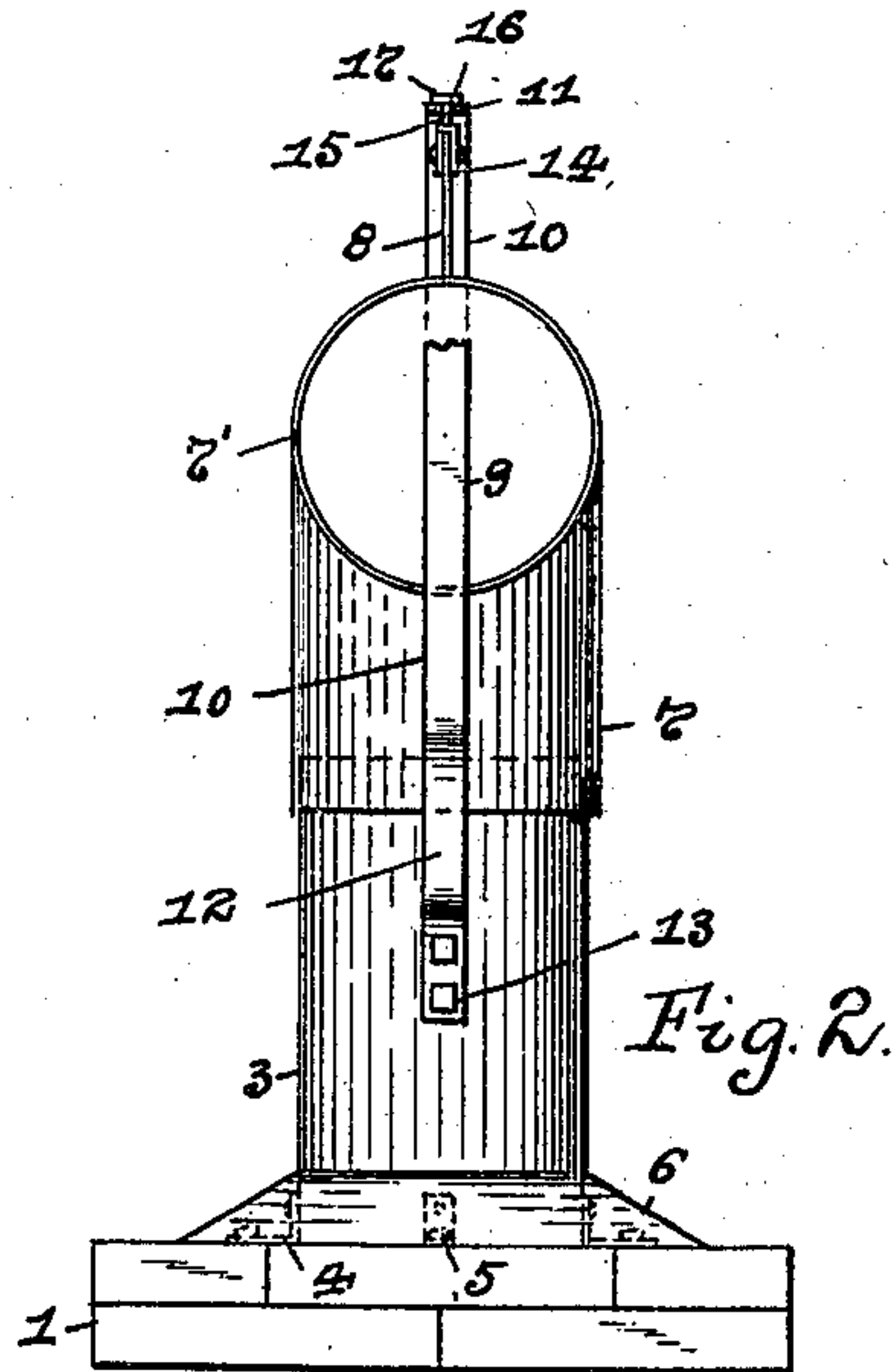
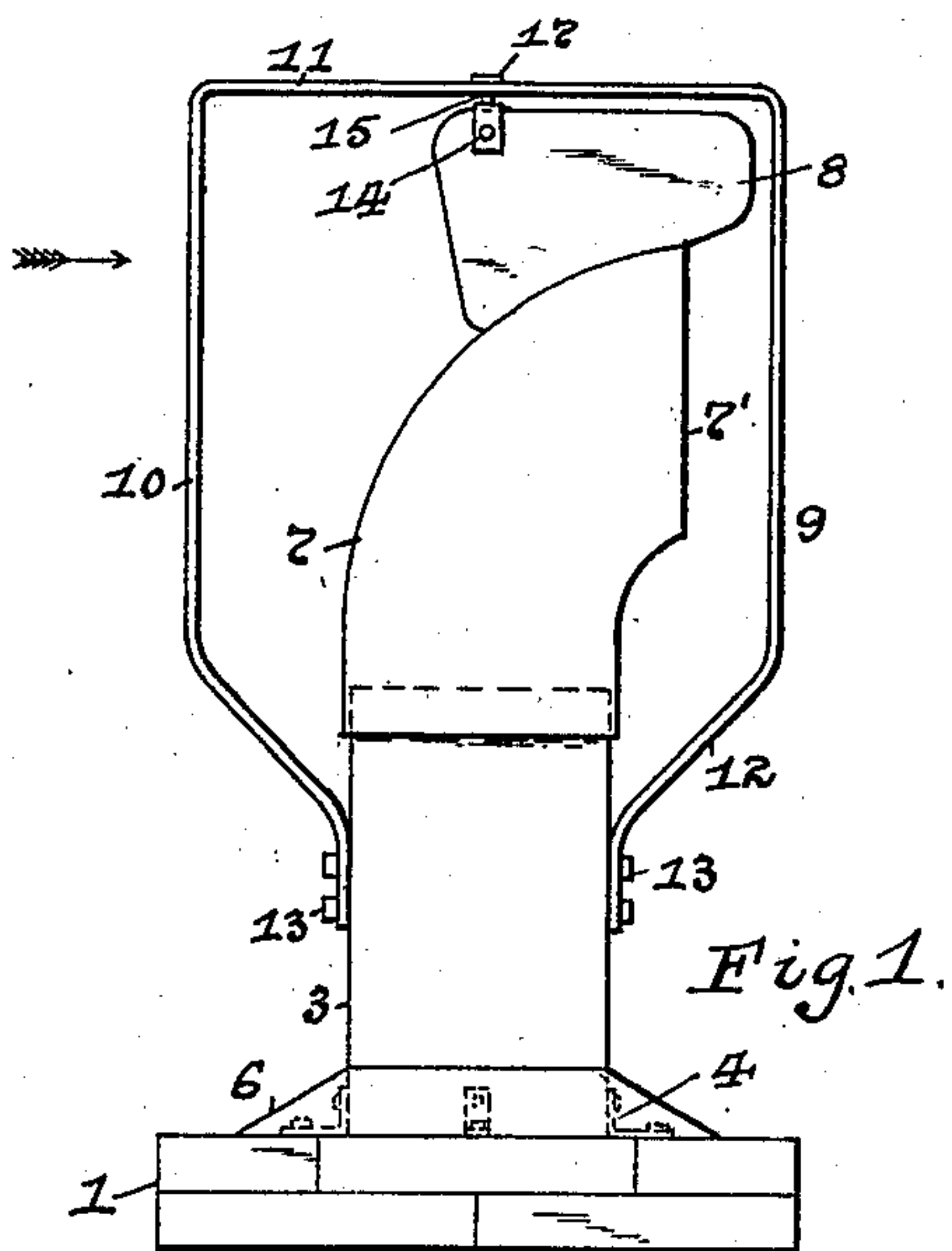
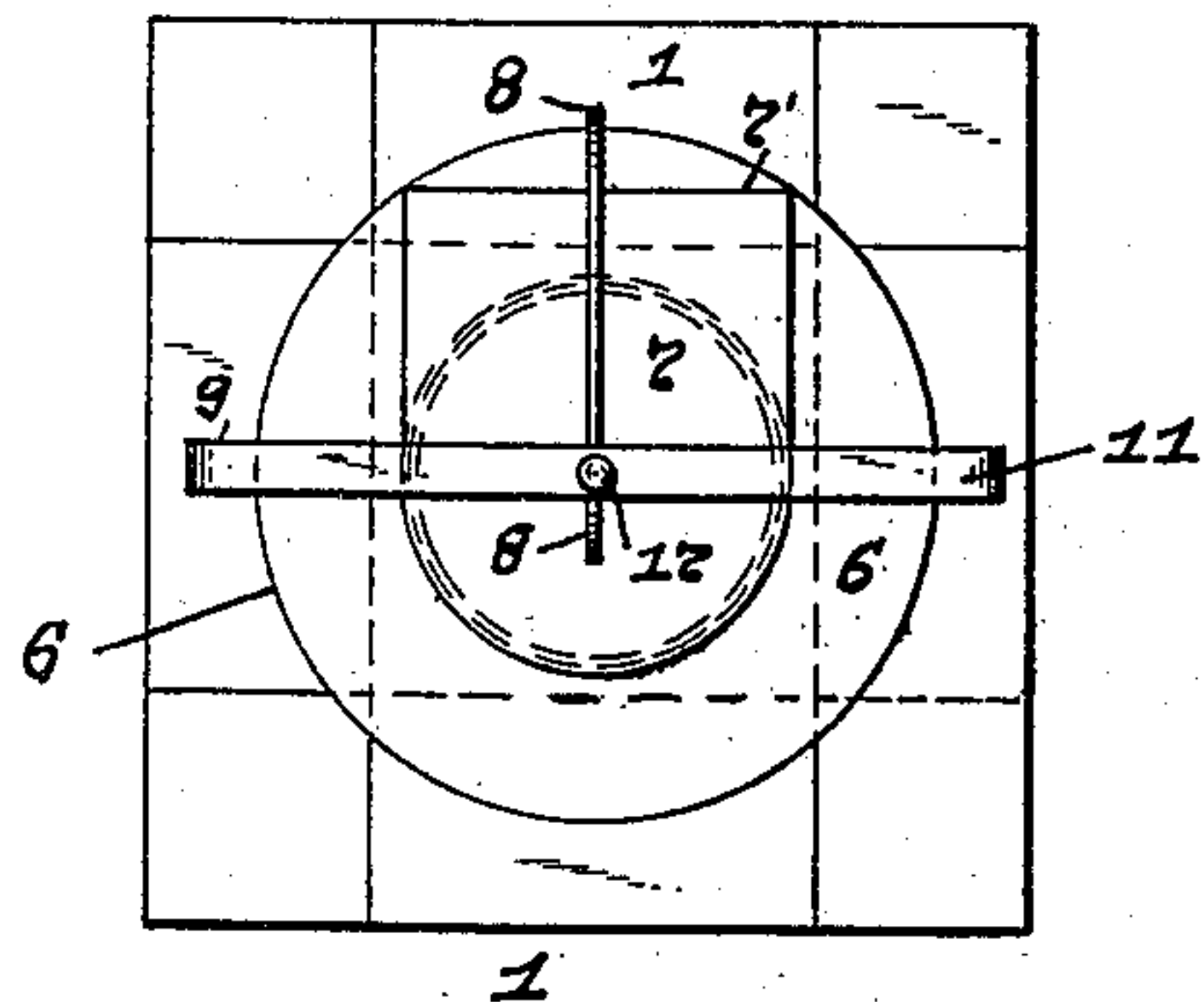


Fig. 4.



Witnesses:  
J. L. Trefaller  
M. E. Connor

Inventor  
Joseph Clarkson  
By J. M. Cooke  
attorney.

# UNITED STATES PATENT OFFICE.

JOSEPH CLARKSON, OF PITTSBURG, PENNSYLVANIA.

## CHIMNEY-COWL.

SPECIFICATION forming part of Letters Patent No. 660,888, dated October 30, 1900.

Application filed February 15, 1900. Serial No. 5,283. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH CLARKSON, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Chimney-Cowls; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to chimney-cowls, and has special reference to such cowls as are used on the chimneys of dwelling-houses, buildings, &c.

One object of my invention is to provide a cheap and simple device for preventing the blowing down of the draft within a chimney, which causes smoky chimneys in the use of coal, wood, &c., as well as preventing the blowing out into the room or apartment of obnoxious vapors or odors in the use of natural or artificial gaseous fuel.

A further object of my invention is to provide a device which will operate automatically in a rapid and easy manner by the action of the air and at the same time will increase the draft in the chimney on which it is used and be a perfect ventilator.

My invention consists, essentially, in the novel arrangement, construction, and combination of parts, as hereinafter more specifically set forth and described, and particularly pointed out in the claim.

To enable others skilled in the art to which my invention appertains to construct and use the chimney-cowl, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 represents a side elevation of my improved chimney-cowl, showing the same applied to a chimney. Fig. 2 is a like view looking at right angles to Fig. 1, some of the parts being broken away. Fig. 3 is a longitudinal central section of the same, showing some of the parts in elevation; and Fig. 4 is a top view of the same.

Like figures of reference indicate like parts in each of the figures of the drawings.

As illustrated in said drawings, 1 represents the chimney, which is of the ordinary brick or of any approved or preferred construction and within which is the flue 2. Fitting over the flue 2 is the smoke or exit pipe 3, which is secured to the top of said chim-

ney 1 by means of brackets 4, having bolts 5 engaging with said chimney 1 and pipe 3, and a base-plate 6 fits around said pipe 3 and against the top of the chimney 1. Fitting loosely and exteriorly around the top of the pipe 3 is the elbow or bent pipe 7, which has an exit opening or end 7' at right angles to the pipe 3, and a wind-vane 8 is secured to the top of the pipe 7. Extending over the top of the pipe 7 and wind-vane 8 is the supporting-frame 9, formed of the uprights 10 and the horizontal portion 11. The uprights 10 extend inwardly at an angle at the bottom thereof, as at 12, and are secured to the pipe 3 by means of bolts 13 or other suitable means. Secured to the top of the wind-vane is the clamp 14, having a pivot-pin or projection 15 extending out therefrom which passes loosely through an opening or hole 16 in the horizontal portion 11 of the frame 9 and is provided with a head 17 thereon, said pin 5 permitting the revolving and supporting of the pipe 7 around the pipe 3.

The use and operation of my improved chimney-cowl are as follows: The parts being assembled and connected to the chimney 1, as shown in Fig. 1, the wind traveling in the direction of the arrow will cause the wind-vane 8 to move to the position shown, and with it the pipe 7, the said pipe 7 revolving around on the pipe 3 and taking its exit end 7' out of the path of the wind, as shown in said Fig. 1. The pipe 7 being supported and held loosely around said pipe 3 by means of the pivot-pin 15 on said wind-vane 8 fitting loosely within the hole 16 in the horizontal portion 11 of the frame 9 permits the revolving of said elbow or pipe 7 around the pipe 3 according to the position assumed by the wind-vane 8, caused by the wind striking the same, and it will be evident that the wind-vane 8 will always cause the exit end 7' of the pipe 7 to open away from the direction of the wind.

It will thus be seen that my improved chimney-cowl are cheap and simple in its construction and operation and does away with the complicated interior and exterior construction of levers, &c., so common in the use of these cowls. It will also be seen that the device will operate in an easy, free, and automatic manner and will overcome the blowing



down of the draft in the flue of the chimney, so overcoming smoky chimneys, the blowing out of the fire, and the entrance of obnoxious vapors into the room when gas is used as a  
5 fuel, and it will also be seen that the device will increase the draft within the flue of the chimney and form a perfect ventilator at all times when in use.

It will be understood that the device can  
10 be used in connection with several flues in a chimney formed in a line with each other and made to operate within a single frame, and various other modifications and changes may be made in the construction and operation of  
15 the apparatus without departing from the spirit of the invention or sacrificing any of its advantages.

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

20 In a chimney-cowl, the combination of a stationary lower pipe-section; an upper pipe-

section having a portion fitting over and adapted to revolve around said lower pipe-section and a portion extending at an angle thereto and having a discharge-opening; a  
25 wind-vane rigidly connected to said last-named portion of the upper pipe-section and extending upwardly therefrom; a frame secured to the lower pipe-section and extending over the upper pipe-section and wind-  
30 vane; and a pivot-pin secured to said wind-vane and projecting through an opening in said frame and having a nut or head for engaging the frame and supporting said wind-vane and upper pipe-section.

35 In testimony whereof I, the said JOSEPH CLARKSON, have hereunto set my hand.

JOSEPH CLARKSON.

Witnesses:

J. N. COOKE,

J. L. TREFALLER.