

No. 671,956.

Patented Apr. 16, 1901.

G. A. HALLER.  
VENTILATOR AND DRAFT REGULATOR.

(Application filed Feb. 6, 1900.)

(No Model.)

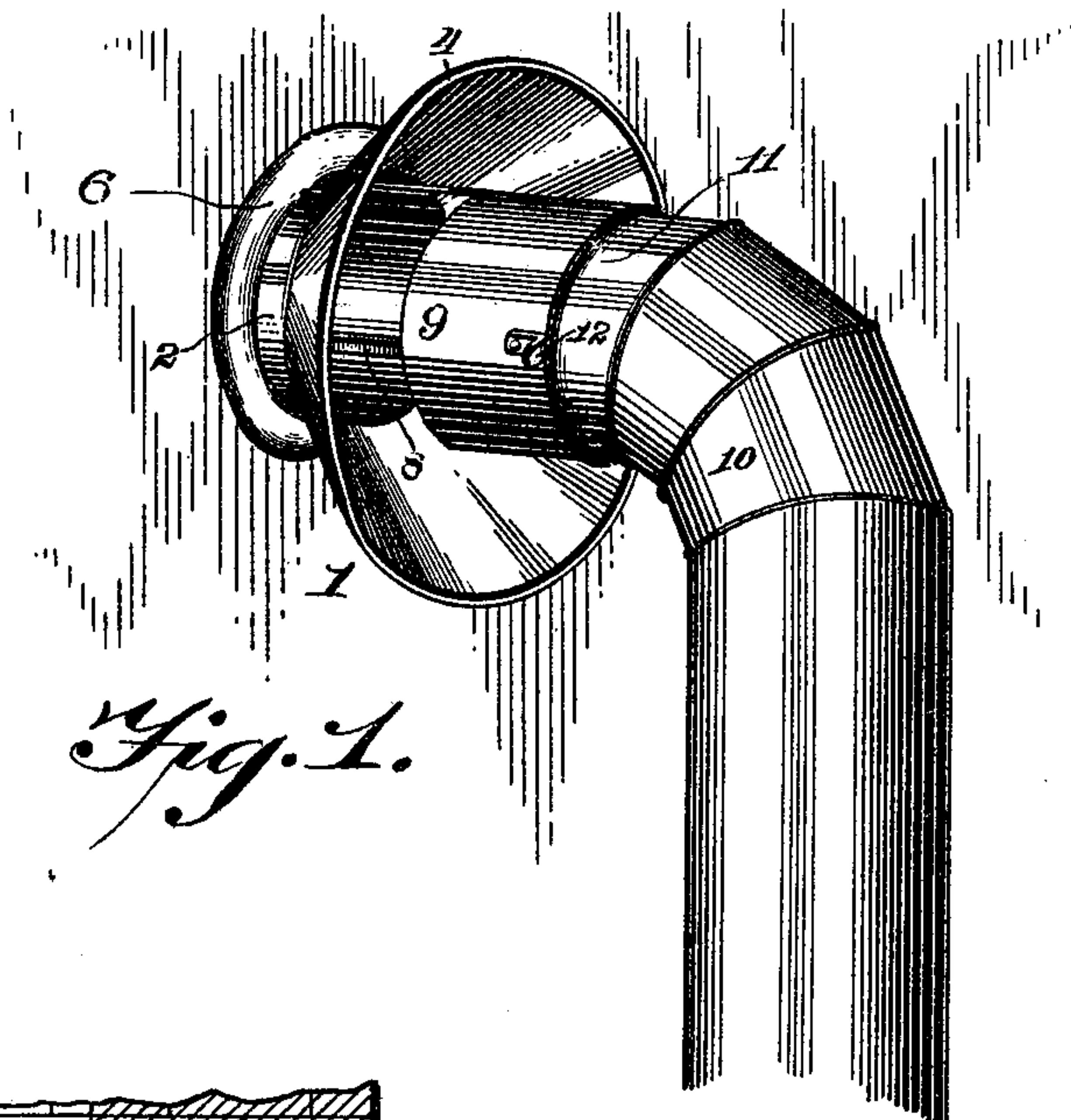


Fig. 1.

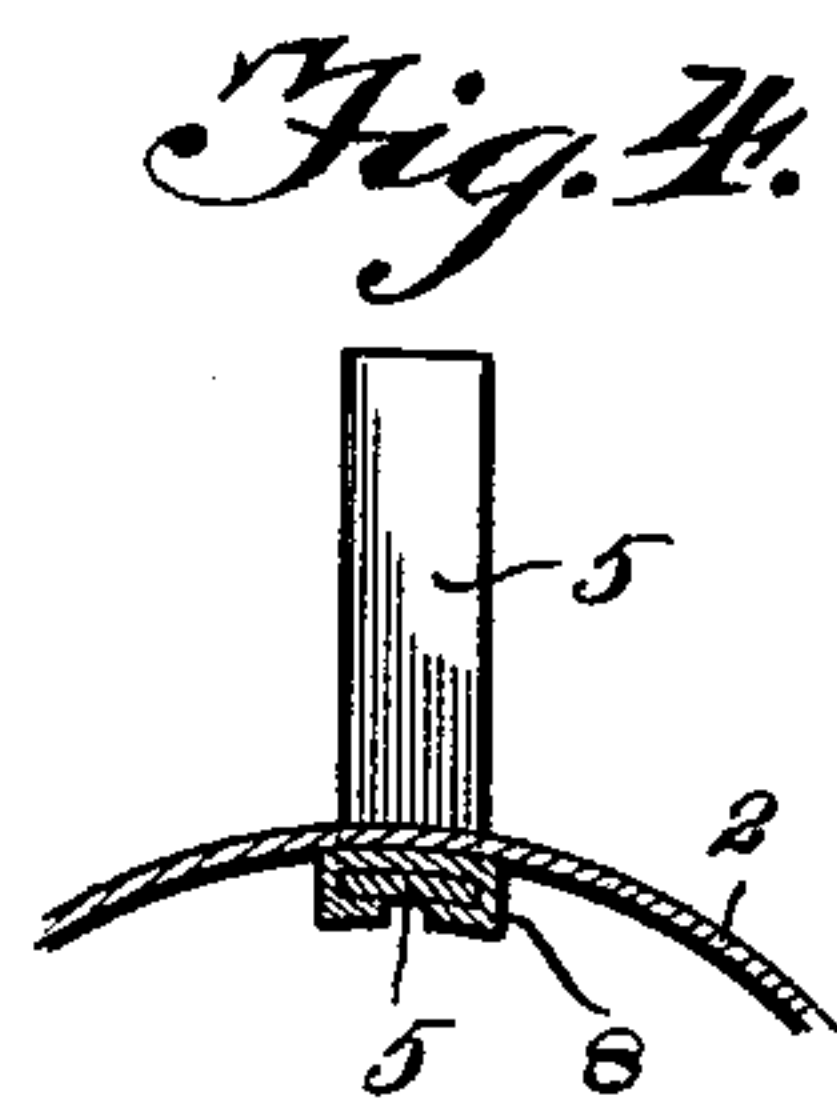


Fig. 4.

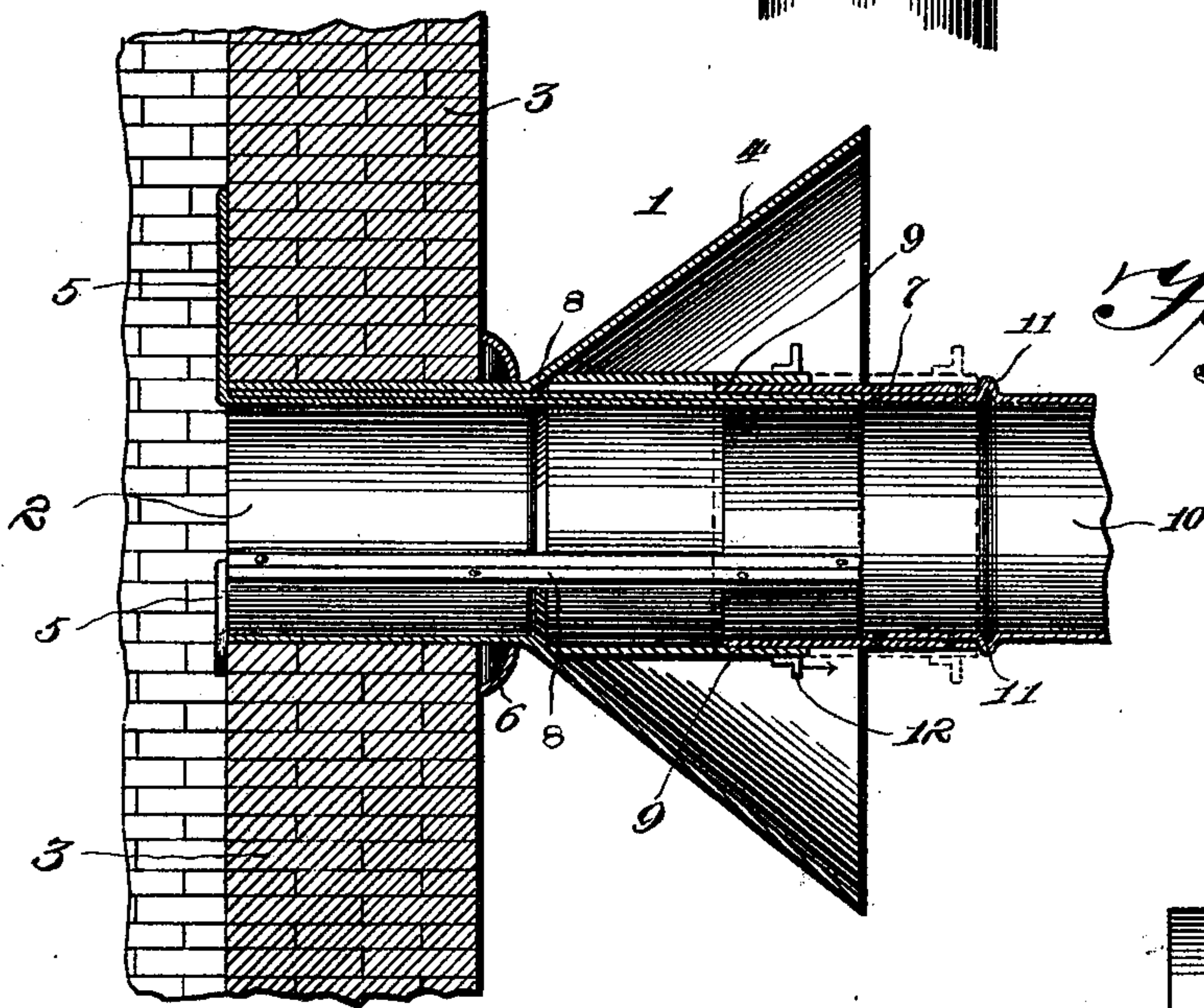
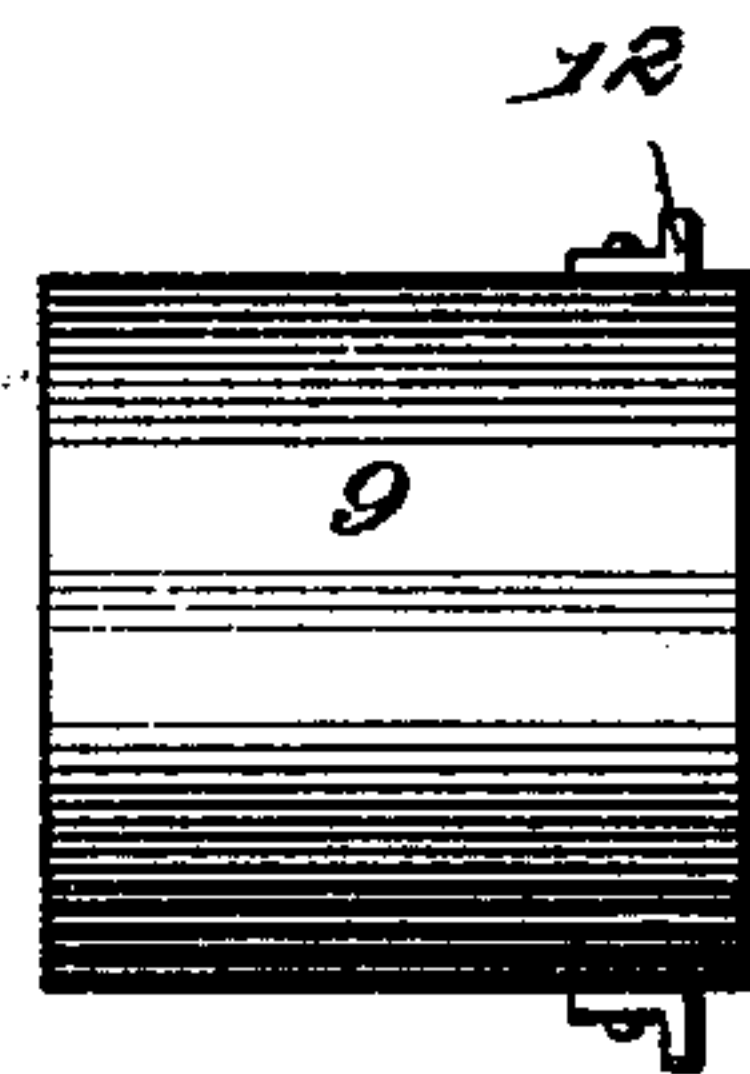


Fig. 2.

Fig. 3.



Witnesses

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By *His* Attorneys,

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G. A. Haller, Inventor



# UNITED STATES PATENT OFFICE.

GUSTAV A. HALLER, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO LEVI M. EDWARDS, OF SAME PLACE.

## VENTILATOR AND DRAFT-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 671,956, dated April 16, 1901.

Application filed February 6, 1900. Serial No. 4,260. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAV A. HALLER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Ventilator and Draft-Regulator, of which the following is a specification.

This invention relates to ventilators, and has for its object to provide an improved device of this character which is especially designed for application to a stovepipe, so as to carry off vitiated air and odors, to discharge the same into a chimney, and also to form means for regulating the draft of the stove. It is furthermore designed to provide for the convenient application of the device without changing or altering the usual or common form of stovepipe.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view showing the application of a combined ventilator and draft-regulator constructed in accordance with the present invention. Fig. 2 is a longitudinal sectional view of the device in its closed position and showing the open position thereof in dotted lines. Fig. 3 is a detail view of the adjustable damper-sleeve for controlling the ventilator. Fig. 4 is a detail transverse sectional view taken through the body of the ventilator to show the manner of securing the attaching-straps.

Corresponding parts in the several figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, 1 designates the body of the ventilator, which is hollow and in the form of a funnel-shaped pipe-section, of which the tubular portion 2 is designed to be fitted within the usual thimble-opening in the chimney-wall 3, and the flared portion thereof, as indicated at 4, is de-

signed to be located within the room. This funnel-shaped body is held within the thimble-opening by means of suitable pliable straps 5, which are secured to the inner side of the tubular portion 2 and project beyond the rear end thereof, so that a suitable implement may be inserted through the tubular portion to bend said straps against the inner wall of the chimney. Any suitable stove-pipe-collar 6 is designed to embrace the tubular portion 2 at the base of the flared portion 4, so as to provide a neat fit between the body of the ventilator and the adjacent wall of the room.

Located within the flared portion of the ventilator-body is a connecting or coupling pipe-section 7, which projects outwardly beyond the marginal edge of the flared portion, and its opposite end terminates short of the inner end of the tubular portion 2 and is fixedly connected thereto by means of a plurality of arms 8, which are riveted solid or otherwise secured to the inner sides of the tubular portion 2 and the coupling pipe-section. By this arrangement there is provided a marginal series of openings between the inner end of the coupling pipe-section and the tubular portion of the body, so that the coupling-section is, in effect, perforated at its inner end.

It is preferable to form each arm 8 from a single blank of sheet metal, which is folded longitudinally, as best indicated in Figs. 2 and 3 of the drawings, so as to form a comparatively rigid arm, and the inner end of the adjacent strap 5 is received within the folded portions of one of the arms, so as to provide a durable connection between the strap and the ventilator.

Loosely embracing the coupling pipe-section is a damper-sleeve 9, which is designed to telescope upon the coupling-section, so as to close the perforations or openings at the inner end of the coupling.

In the operation of the device the funnel-shaped body is fitted to the thimble-opening in the chimney, as hereinbefore described, and then a stovepipe section or elbow 10 is fitted into the outer end of the coupling 7, the bead 11 which is commonly provided upon a stovepipe forming a convenient stop to limit the inward insertion of the stovepipe and also



forming a stop to limit the outward movement of the damper-sleeve 9. When the damper-sleeve is at its outward limit, the perforations or spaces between the inner end of the pipe-coupling and the tubular body portion of the ventilator are open, so that vitiated air and odors may be carried through the ventilator and into the chimney by reason of the draft occasioned by the latter. To close the ventilator, the damper-sleeve is pushed inwardly, so as to close the perforations or openings at the inner end of the coupling, and thus prevent the escape of air into the chimney and also increase the draft through the stovepipe, as will be readily understood. To facilitate the operation of the telescopic damper-sleeve, the latter is provided with diametrically opposite lugs or finger-pieces 12.

It will be understood that the length of the coupling-section may be varied to suit the conditions of any particular device, and although the latter has been shown as applied to the side wall of a room and in conjunction with an elbow it is also designed to place the ventilator in the ceiling.

From the foregoing description it will be apparent that the present ventilator comprises but few parts, which may be conveniently assembled for application to the thim-

ble-opening of a chimney and to form a connection between the latter and the adjacent end of the stovepipe-section. Should the stovepipe-section be removed, any ordinary flue-stopper may be applied to the coupling-pipe or to the body portion of the flared section, so as to close the flue-opening.

What I claim is—

A stovepipe-ventilator, comprising a funnel-shaped body, which is open at opposite ends, straps secured to the inner side of the body and projecting in opposite directions beyond each end thereof, the inner ends of the straps being bent laterally and forming attaching means, a straight tubular coupling carried by the opposite ends of the straps and having its inner end located outwardly from the adjacent end of the tubular portion of the body, and a damper-sleeve slidable upon the coupling and the connecting portions of the straps.

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

GUSTAV A. HALLER.

Witnesses:

JOSEPH B. KEALING,  
ADELAIDE P. UHL.