(No Model.)

E. B. JONES.

STOVE PIPE COLLAR, CLAMP, AND COVER.

No. 424,304. Patented Mar. 25, 1890.

Fig. 1.

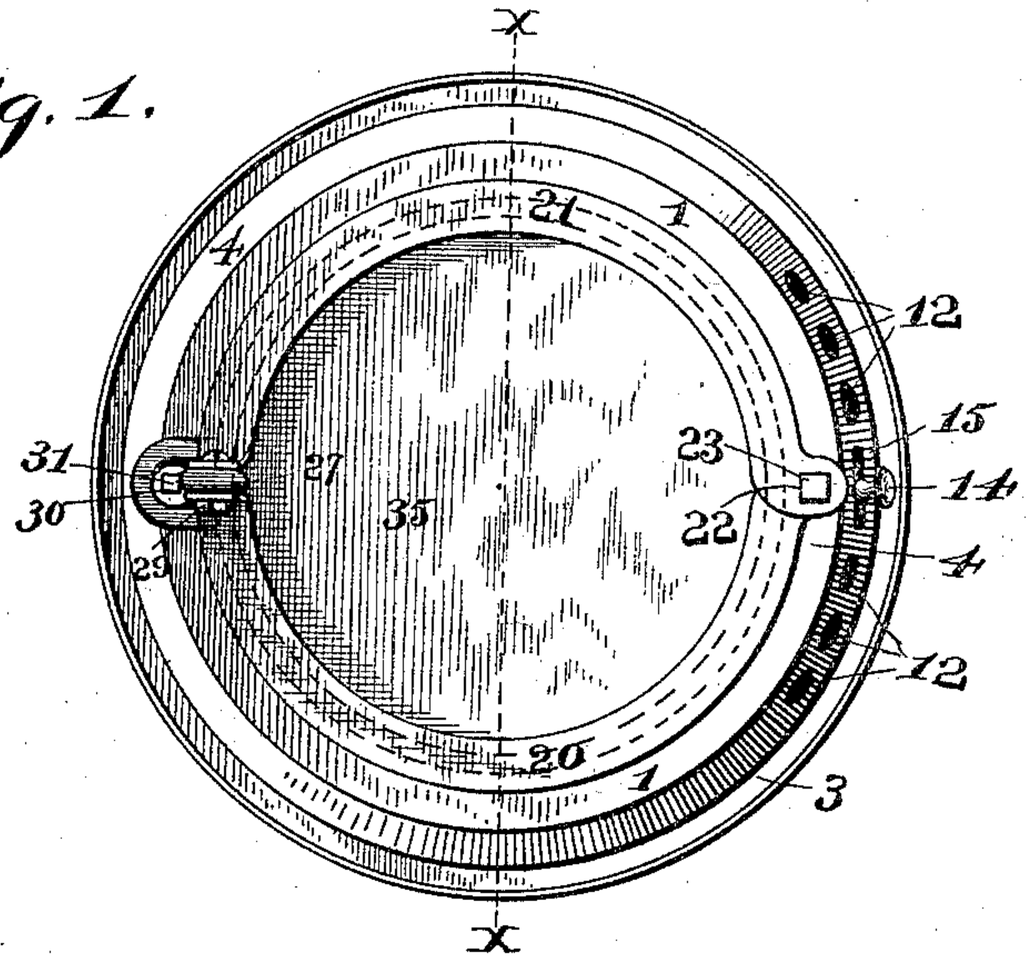
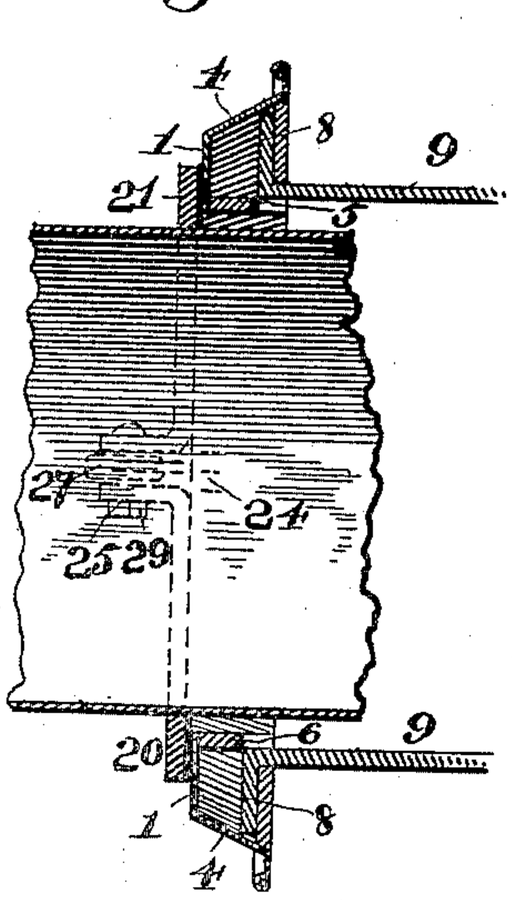
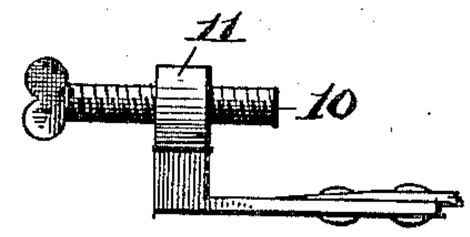


Fig. 2.





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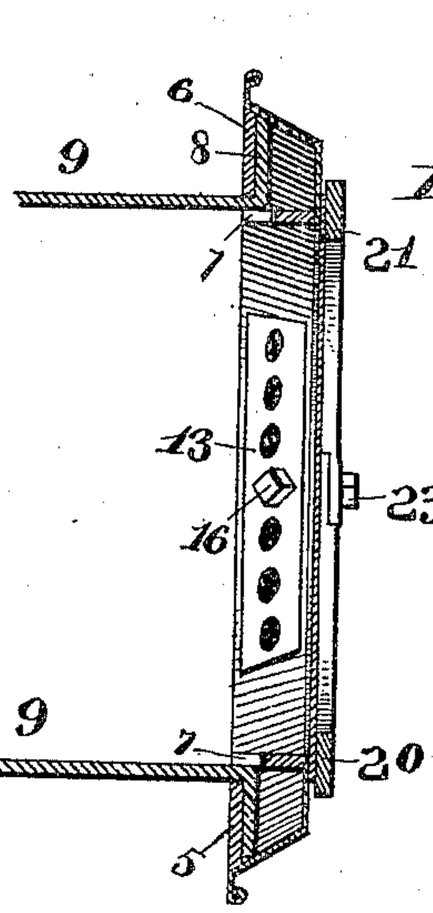

Fig. 3.

Fig. 5.

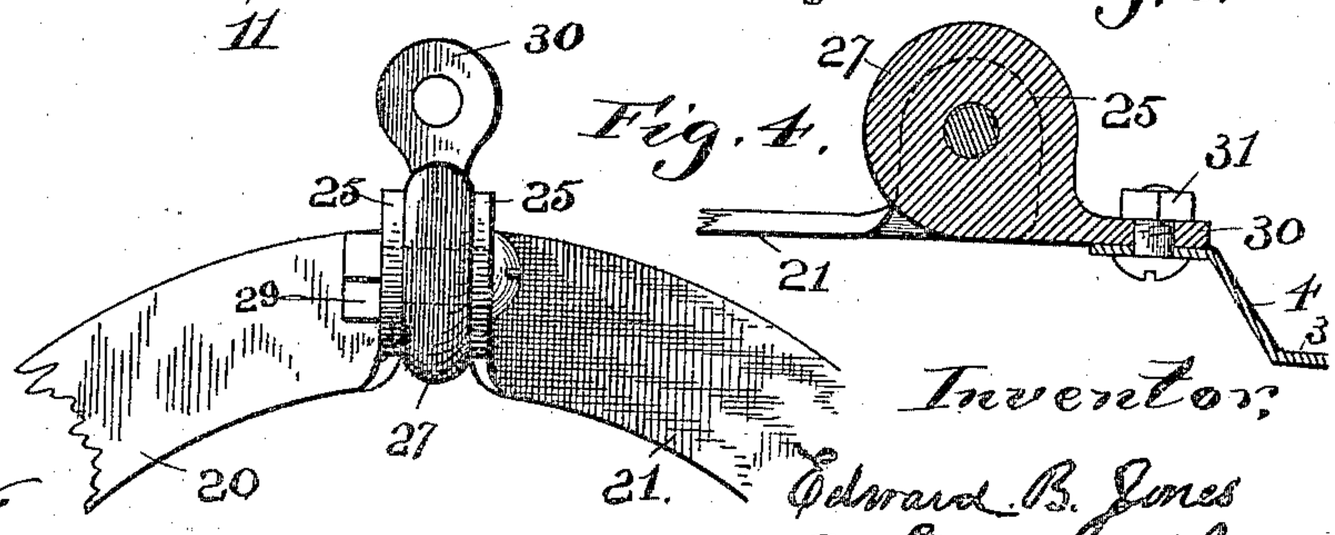

Fig. 4.

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UNITED STATES PATENT OFFICE.

EDWARD BENJAMIN JONES, OF THAWVILLE, ILLINOIS.

STOVE-PIPE COLLAR, CLAMP, AND COVER.

SPECIFICATION forming part of Letters Patent No. 424,304, dated March 25, 1890.

Application filed December 12, 1889. Serial No. 333,515. (No model.)

To all whom it may concern:

Be it known that I, EDWARD BENJAMIN JONES, of Thawville, county of Iroquois, State of Illinois, have invented a new and useful Improvement in Stove-Pipe Collars, Clamps and Covers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a combined stove-pipe collar, pipe-clamp, and cover; and it has for its objects to provide an improved collar which is securely held or clamped in position and is constructed to serve as a ventilator for allowing escape of vitiated air from the room or apartment, to provide means which is supported by the collar and is adapted to engage the stove-pipe when the latter is fitted in the thimble and collar, and to provide a cover which is adapted to be clamped between the collar and stove-pipe clamp, and be held in place by said parts on the collar, so as to close the stove-pipe hole when the stove-pipe is removed from the same.

With these and other ends in view my invention consists of the combination of devices and peculiar construction and arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

I will now proceed to a detailed description of my invention in connection with the accompanying drawings, in which—

Figure 1 is a front elevation showing a stove-pipe fitted in the thimble and a collar constructed in accordance with my invention, the pipe being held in a fixed position within the collar by a clamp that is supported by the collar. Fig. 2 is a sectional view on the line *x x* of Fig. 1. Fig. 3 is a sectional view showing the stove-pipe removed and a cover clamped between the collar and the stove-pipe clamp. Fig. 4 is a detail view of the sectional clamping-ring. Fig. 5 is a detail sectional view through the coupling-piece, showing the same secured to the collar.

Referring to the drawings, in which like numerals of reference denote corresponding parts in all the figures, 1 designates my improved collar, which is constructed preferably of sheet metal, and is of such size as to fit around a stove-pipe hole formed in the chimney in the ordinary manner. This collar is bent to form at its base an annular flange 3, which bears directly against the outer face or wall of the chimney, and with another flange 4, which lies laterally of the chimney in a plane a short distance in front of the wall or chimney. On the rear face of the collar, preferably at diametrically-opposite points, I provide sockets 5 6, which are secured directly to the collar in any suitable manner, and the sockets are provided with openings or slots 7 for the reception of hooks 8 on securing-rods 9. These rods extend through the stove-pipe hole close against the wall thereof, and are the rear ends of the rods.

I provide clamping-screws 10, which operate in threaded openings formed in right-angled arms 11, formed by bending the rods outwardly. These clamping-screws take or bear against the inner side of the chimney, and when they are turned the rods draw the collar firmly against the outer side of the chimney, and thereby hold the collar securely in place. The thumb-screws can be readily loosened to permit the rods to be detached from the chimney and the collar removed therefrom, and the device can be easily applied, and the rods and sockets are concealed from view by the collar, as is obvious.

In the inclined raised part of the collar I provide a series of ventilation-apertures 12, which are adapted to be opened or closed at will by a sliding cut-off 13, fitted neatly within the collar on the rear side thereof, so as to be concealed from view. This sliding cut-off is also perforated transversely, so that its openings are adapted to align with the openings in the collar when the cut-off is adjusted to one position; but when it is moved to the opposite position the apertures do not coincide, and the cut-off thus closes the apertures in the collar. The plate or cut-off is connected to the collar and limited in its movements by a threaded stud 14, which is suitably fixed to the cut-off and projects through a slot 15, formed in the collar, the outer end of said threaded stud receiving a nut 16, and the nut and stud also serving as a means or knob for conveniently manipulating the cut-off. When the cut-off is adjusted to open the apertures

in the collar, the air in the room or apartment can pass freely through the collar, as an unobstructed passage is thus provided for the air to pass into the chimney and ventilate the apartment. The stove-pipe passes through the collar into the stove-pipe hole and chimney, and said pipe is clamped in a fixed position and held firmly in place by a sectional clamp 20, which is supported by the collar exteriorly thereof. This clamp consists of the two members 21, substantially semicircular in form, the meeting ends of the members being secured directly to the collar and to each other in the manner which I will now explain. At one end each member of the clamp is provided with a perforation or eye 22, and these perforated ends of the clamp members are adapted to lap each other and be secured to the collar by a single bolt 23, which passes through the eyes of the members and the collar, and is secured by a nut 24 on the inner side of the collar. The opposite end of each member of the clamp is provided with a right-angled arm 25, and these arms of the two members are arranged laterally of each other, substantially parallel, and provided with transverse openings 26, which align with each other and with a similar opening in a coupling-piece 27, which is interposed between the right-angled arms of the members of the clamp. These armed ends of the clamp members are not united directly to the collar; but in order to hold the clamp on the collar the coupling-piece 27 is fixed to the collar, and the clamp members are united to the coupling-piece by means of an adjusting-bolt 29, which passes through the aligned openings in the arms of the clamp members and the coupling-piece, whereby said adjusting bolt is adapted to draw the clamp members together and compress the members upon the stove-pipe to hold the pipe securely in the collar.

The coupling-piece is provided with a right-angled foot 30, through an opening in which passes a bolt 31, that serves to secure the coupling-piece firmly to the collar. After the stove-pipe has been properly adjusted or fitted in the collar, the clamp members are fitted around the pipe and one end of the members are secured directly to the collar by means of the bolt 23, as heretofore described. The coupling-piece having been firmly secured to the collar, the members of the clamp are adjusted so that the openings in the arms thereof coincide with the opening in the coupling-piece, after which the adjusting-bolt is passed through openings and tightened up to cause the members of the clamp to bind on the stove-pipe and thus hold the pipe securely in place. The clamp is securely connected to and supported by the collar, it can be readily applied to and removed from the collar, and the clamp can easily be tightened around the stove-pipe and without hinderance from the collar. I have also provided a cover 35 for closing the stove-pipe hole when the stove-pipe is removed, as in the summer season. This cover comprises a flat disk of the proper diameter, and it is held or secured in place by interposing it between the collar and the clamp 20 thereon. Said cover is provided with a slotted arm 36 to receive the coupling-piece 27, and the cover is confined in place by frictional contact between itself, the collar, and the clamp, and by the coupling-piece fitting in the slotted arm of said cover. It will be observed that I am thus enabled to provide devices adapted to fulfill the various requirements of holding a stove-pipe in the chimney, to conceal the joint, and to cover the stove-pipe hole when the pipe is removed, and that the devices employed are simple and cheap in construction and effective in operation.

Slight changes in the form and proportion of parts can be made without departing from the spirit or sacrificing the advantages of my invention.

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

1. The combination of a collar, a sectional clamp having one end of both sections pivoted to the collar by a single through-bolt, and each member being provided at its opposite end with a right-angled arm, a coupling-piece arranged between the arms of the clamp members and secured to the collar by a removable bolt, and an adjusting-bolt passing through the arms of both clamp members and the coupling-piece, as described.

2. The combination of a collar, a clamp secured laterally thereto by transverse bolts, and a cover interposed between the collar and clamp and held in place by said parts, substantially as described.

3. The combination of a collar, a sectional clamp having a coupling-piece which is secured to the collar, and a cover interposed between the collar and clamp and having a slotted arm to receive the coupling-piece, as and for the purpose described.

In testimony whereof I have hereunto set my hand this 27th day of November, A. D. 1889.

EDWARD BENJAMIN JONES.

Witnesses:
H. G. ASAY,
JOB ANDERSON.