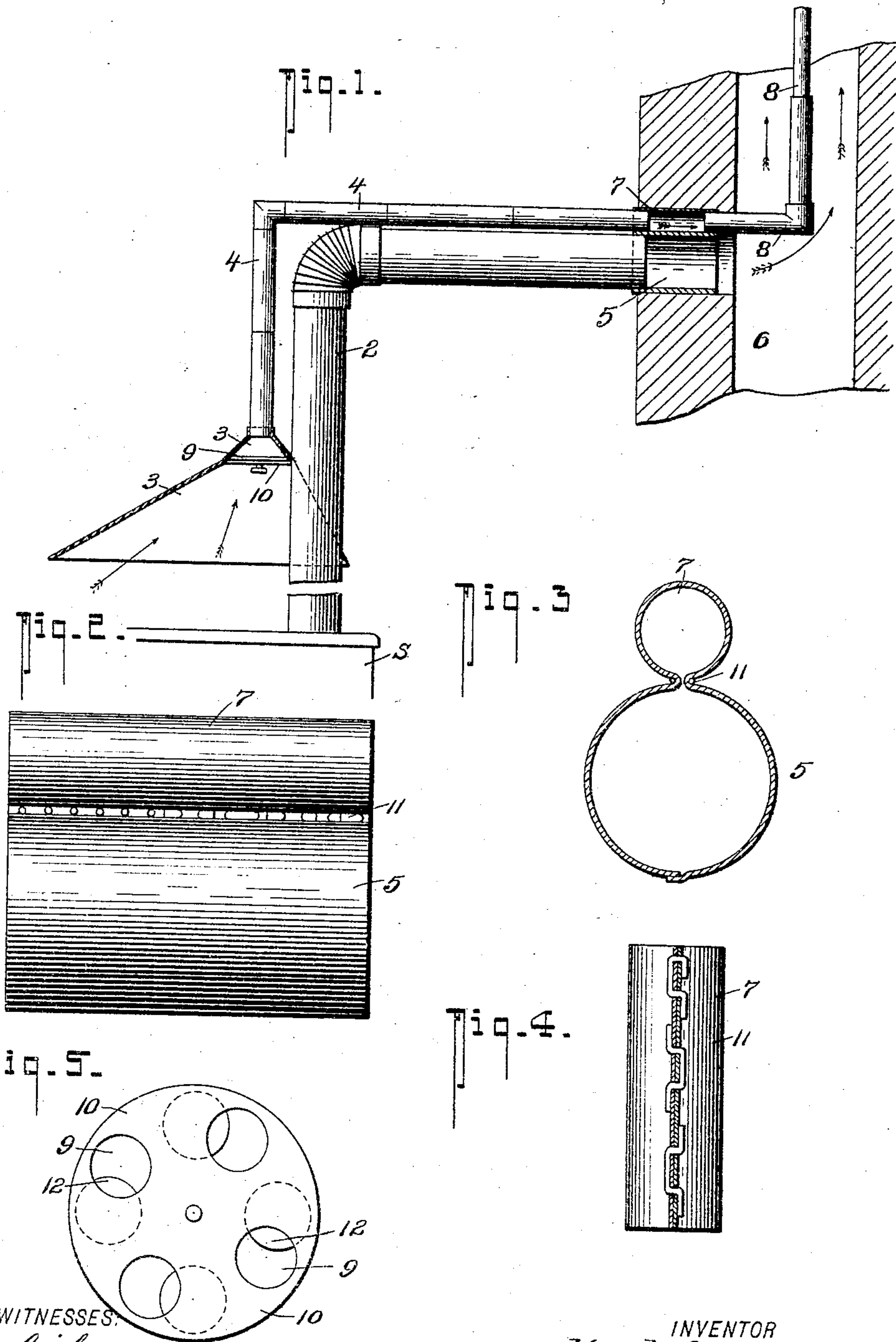


No. 771,536.

PATENTED OCT. 4, 1904.

H. CONDREN.
STOVEPIPE VENTILATOR.
APPLICATION FILED JAN. 8, 1904.

NO MODEL.



WITNESSES:
F. L. Gibson,
A. E. Dietrich

INVENTOR
Hugh Condren.
BY
Red Goetzrich
ATTORNEY

UNITED STATES PATENT OFFICE.

HUGH CONDREN, OF VANCOUVER, CANADA.

STOVEPIPE-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 771,536, dated October 4, 1904.

Application filed January 8, 1904. Serial No. 188,219. (No model.)

To all whom it may concern:

Be it known that I, HUGH CONDREN, a citizen of the Dominion of Canada, residing at the city of Vancouver, in the Province of British Columbia, Canada, have invented a new and useful Improvement in Stovepipe-Ventilators, of which the following is a specification.

My invention relates to an improved room-ventilator designed to convey to the chimney and efficiently discharge therein the fumes and heated air from a cook-stove; and it also includes the particular construction of a stovepipe-thimble whereby the ventilating-pipe may be introduced through the same opening in the brickwork of the chimney as is provided for the stovepipe.

The particular construction of my device is fully described in the following specification and illustrated in the drawings which accompany it.

Figure 1 is a side elevation of the complete ventilator, showing it in place in a chimney. Fig. 2 is a similar view of the stovepipe-thimble detached. Fig. 3 is a cross-section of the same. Fig. 4 is a detail section showing the manner of forming the ventilating-pipe connection in the thimble, and Fig. 5 a plan of the apertured damper.

At a convenient height above the top of the stove S and adjacent to the vertical portion of the stovepipe 2 therefrom, to which it may be secured in any convenient manner, is the flared or coned collector 3, designed to collect and deliver the fumes and vapors of cooking as they rise from the stove into a pipe 4, secured to the apex of the cone and which runs alongside the stovepipe and preferably in contact with it to the chimney. Where the stovepipe is horizontal, the ventilating-pipe is carried along the upper side, so that the air within may be more effectually heated and a better draft induced. The stovepipe 2 may pass through the hood 3, as shown in the drawings, if desired.

The thimble 5, through which the stovepipe 2 is introduced into the chimney 6 through the brickwork, is provided with a supplementary pipe 7 on its upper side to receive the ventilating-pipe 4 from within the room. The pipe 7 is formed in one piece with 5, and

the junction is secured (see Fig. 4) by a series of wire clasps 11, lacing the metal together at the junction.

Into the inner end of 7 an elbow and upwardly-directed pipe 8 is inserted, which pipe in sectional lengths may be introduced through the stovepipe-aperture 5 of the thimble. This upwardly-turned pipe 8 within the chimney prevents any conflict of the ventilating air-current with that of the stovepipe-draft and enables the stronger draft of the latter to induce a better flow within the ventilating-pipe.

The draft within the ventilating-pipe may be regulated and controlled by a damper of any kind; but the preferred form consists of an apertured diaphragm 9 across the upper end of the flared collector 3 at such a distance below the attachment of the pipe 4 to it as will insure an ample area through the perforations 12. This diaphragm has a correspondingly-apertured disk 10, rotatably mounted, so that the apertures may be closed in whole or in part, as desired. The advantage of this arrangement is that the double thimble being inserted in the chimney-wall when the house is built the ventilating-pipes 4 and 8 may be inserted when desired, or, if not wanted, the supplementary pipe 7 may be capped.

The proximity of the pipe 4 to the hot stovepipe and the upturned pipe 8 in the chimney will cause a current of air to flow through the ventilating-pipe sufficient to draw any of the vapors of cooking through and free the room from the unpleasant smell thereof.

Having now particularly described my invention and the manner of its application, I declare that what I claim as new, and desire to be protected in by Letters Patent, is—

1. In a ventilator of the class described, the combination with a stove, a hood situated thereabove, a stovepipe leading from the stove to the chimney, an air-pipe running parallel with respect to said stovepipe, a thimble comprising a main and a supplemental pipe adapted to receive said stovepipe and said air-pipe, respectively, and an uptake-pipe situated within the chimney and socketed in said supplemental pipe.

2. In a ventilator of the class described, the combination with a stove and a chimney, of a

stovepipe, a thimble situated in the wall of the chimney and adapted to receive the stovepipe, said thimble comprising a piece of sheet metal bent to form two adjacent pipes, and
5 means for uniting said pipes at their juncture, a flared collector arranged above the stove and a rotatable apertured damper or valve located near its upper end, a pipe connecting the flared collector with one of the thimble-
10 pipes, and an upwardly-turned pipe within the chimney socketed into the inner end of the thimble-pipe with which the flared-collector-connecting pipe joins.

3. In a ventilator of the class described, the
15 combination with a stove and a chimney, of a stovepipe leading from the stove to the chimney, a thimble in the chimney-wall to receive said stovepipe, a supplemental pipe integrally formed with said thimble, a wire for lacing

or clasping the juncture of the supplemental
pipe with the thimble-pipe, a flared collector
located over the stove, a rotatable apertured
damper or valve located toward the upper end
of the collector, a pipe along the upper side
of the stovepipe and connecting the flared col-
25 lector with the supplemental thimble-pipe, an
upwardly-turned pipe within the chimney
socketed into the inner end of the supplement-
tal thimble-pipe substantially as shown and
described. 30

In testimony whereof I have signed my name
to this specification in the presence of two sub-
scribing witnesses.

HUGH CONDREN.

In presence of—

ROWLAND BRITAIN,
ELLICE WEBBER.