

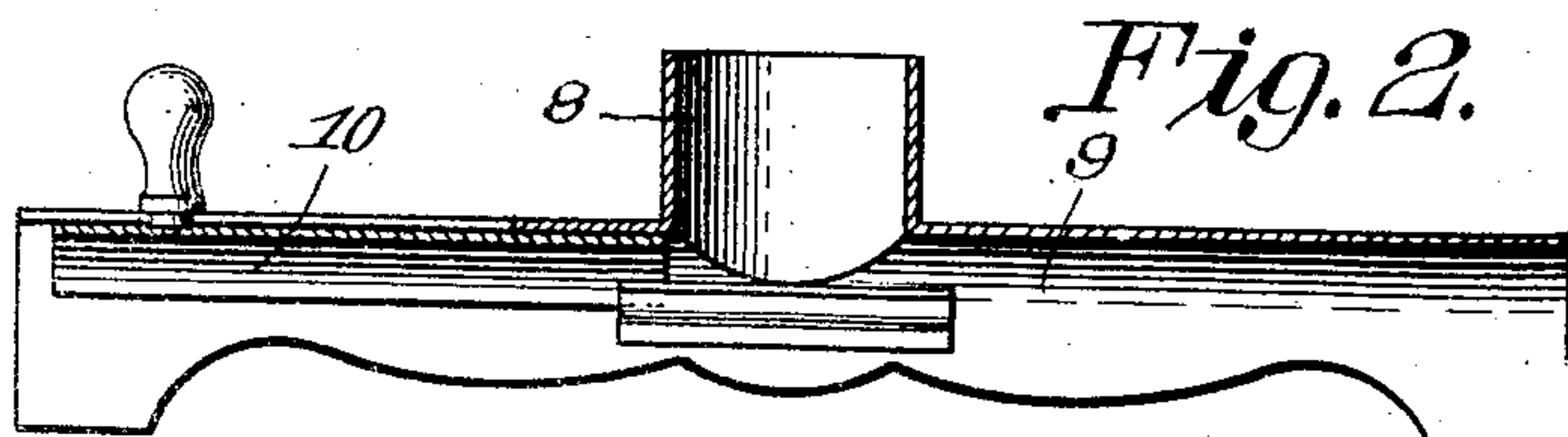
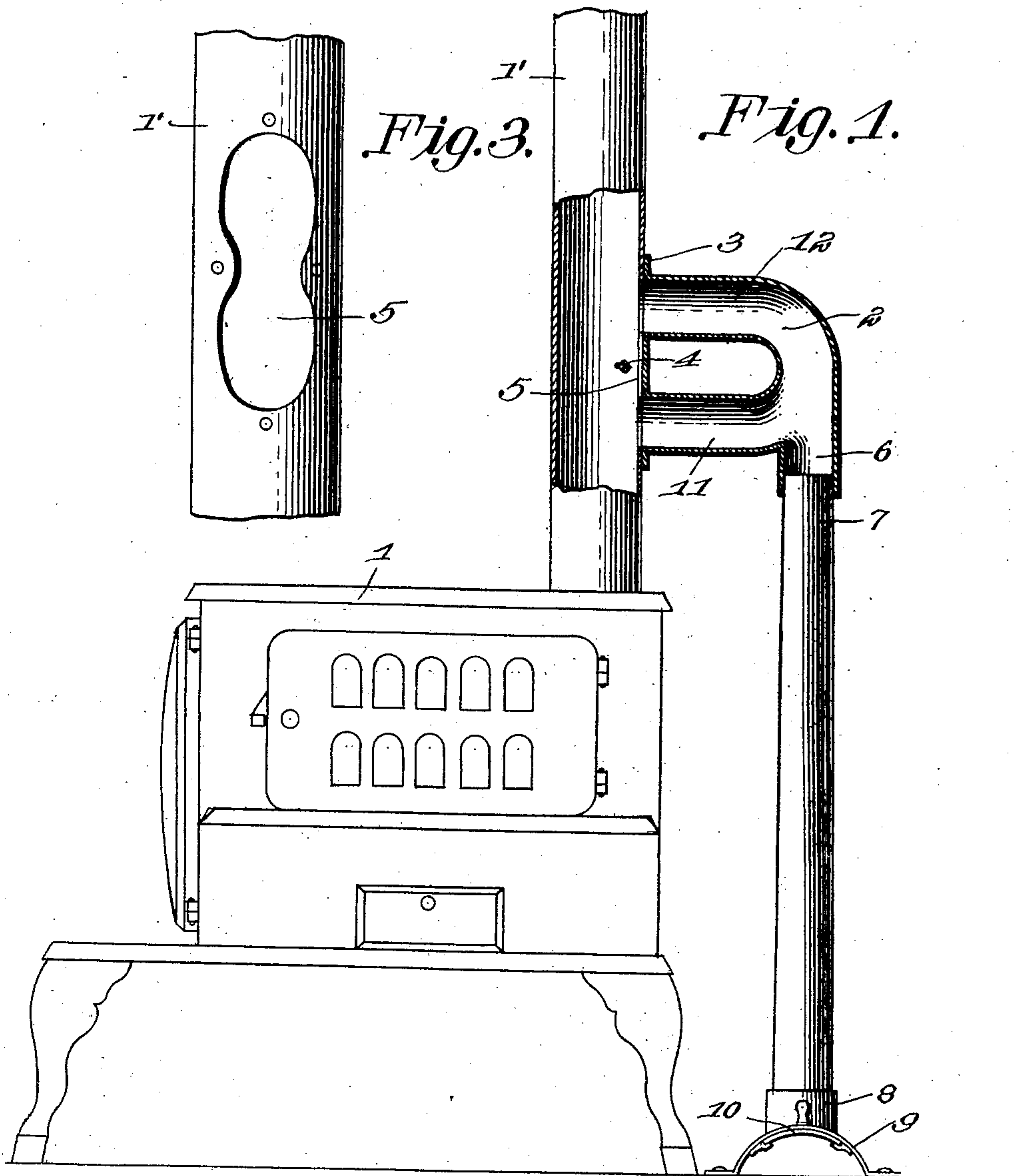
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PATENTED OCT. 4, 1904.

C. H. & B. A. STOCKING.
VENTILATING ATTACHMENT FOR STOVEPIPES.

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NO MODEL.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES H. STOCKING AND BERT A. STOCKING, OF AUDUBON, IOWA.

VENTILATING ATTACHMENT FOR STOVEPIPES.

SPECIFICATION forming part of Letters Patent No. 771,680, dated October 4, 1904.

Application filed March 8, 1904. Serial No. 197,110. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. STOCKING and BERT A. STOCKING, citizens of the United States, residing at Audubon, in the county of Audubon and State of Iowa, have invented a new and useful Ventilating Attachment for Stovepipes, of which the following is a specification.

This invention relates to ventilating attachments for stovepipes.

The object of the invention is in a ready, thoroughly feasible, and positive manner to remove cold air, smoke, foul air, or gas from the floor of a room, thereby in an appreciable manner causing proper ventilation, and, further, to effect holding down the hot air in the stove, and thus conserve fuel.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a ventilating attachment for stovepipes, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that various changes as to shape, proportion, and exact manner of assemblage may be made without departing from the spirit thereof.

In the drawings, Figure 1 is a view in side elevation, partly in section, of a ventilating attachment, showing the same combined with the stovepipe. Fig. 2 is a longitudinal sectional view through the base of the stand-pipe. Fig. 3 is a detail view of the stovepipe, showing the manner in which the ventilating attachment is combined therewith.

Referring to the drawings, 1 designates a stove, in this instance an ordinary cooking-stove, with the pipe of which the device of the present invention is combined, it being understood that the invention is equally adaptable for use in connection with ordinary heating-stoves, such as those that stand out in the floor, and as this will be readily understood

detailed illustration thereof is deemed unnecessary.

The attachment comprises a U-shaped elbow 2, constructed of any suitable material and having disposed at the terminals of its branches an attaching-plate 3, provided with any desired number of orifices to receive bolts 4 for securing the structure to the stovepipe, the latter in this instance being cut away, as shown at 5, to establish communication between the two branches of the elbow and the pipe, the plate to be either integral with the elbow branches or secured thereto in any suitable manner. Projecting downward from the crest of the elbow is a hollow extension 6, in which fits the upper end of a stand or cold-air pipe 7, the lower end of which fits upon a collar 8, carried by a hollow base 9, which is secured to the floor in rear of the stove, the said base being provided with a damper 10, which operates to control the passage of air through the collar, and thus to the stand-pipe. Generally it will be preferred to employ the base, as it will impart rigidity to the stand-pipe; but it will be obvious that, if preferred, this base may be omitted, and the damper may be combined directly with the stand-pipe.

In the operation of the device the hot air from the stove passes through the lower branch 11 of the elbow and thence around past its crest and out through the upper branch 12 into the stovepipe. In their passage around the crest the heated products of combustion set up a suction through the stand-pipe, which will operate to draw cold air therein or any foul gases or smoke that may be adjacent to the floor. As the discharge of the mixed air and heated products of combustion takes place across the stovepipe, the escape of the hot air from the stove is somewhat checked, so that the fuel is conserved and a large per cent. of the heat that is ordinarily wasted is utilized for doing effective work.

The device of this invention is capable of being attached to any stovepipe in use, as it will only necessitate the provision of the opening 5 therein and the smaller openings to receive the attaching-bolts that hold the elbow in position.

Having thus fully described our invention, what we claim is—

1. A ventilating attachment for stovepipes comprising a U-shaped elbow having both
5 branches adapted for attachment to the stove-pipe, and a cold-air or stand pipe communicating with the under side of the crest of the elbow.
2. A ventilating attachment for stovepipes
10 comprising a U-shaped elbow having both branches in communication with the stove-pipe, a stand or cold-air pipe communicating with the under side of the crest of the elbow, and means for controlling the passage of air
15 through the stand-pipe.
3. A ventilating attachment for stovepipes comprising a plate, a U-shaped elbow carried

thereby and having a hollow extension on its lower side substantially in alinement with the crest of the elbow, a stand or cold-air pipe 20 communicating with the extension, an open base with which the lower end of the stand-pipe is combined, and a damper on the base for controlling the passage of cold air through the stand-pipe. 25

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

CHARLES H. STOCKING.
BERT A. STOCKING.

Witnesses:

L. M. ANDERSON,
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