

No. 696,610.

Patented Apr. 1, 1902.

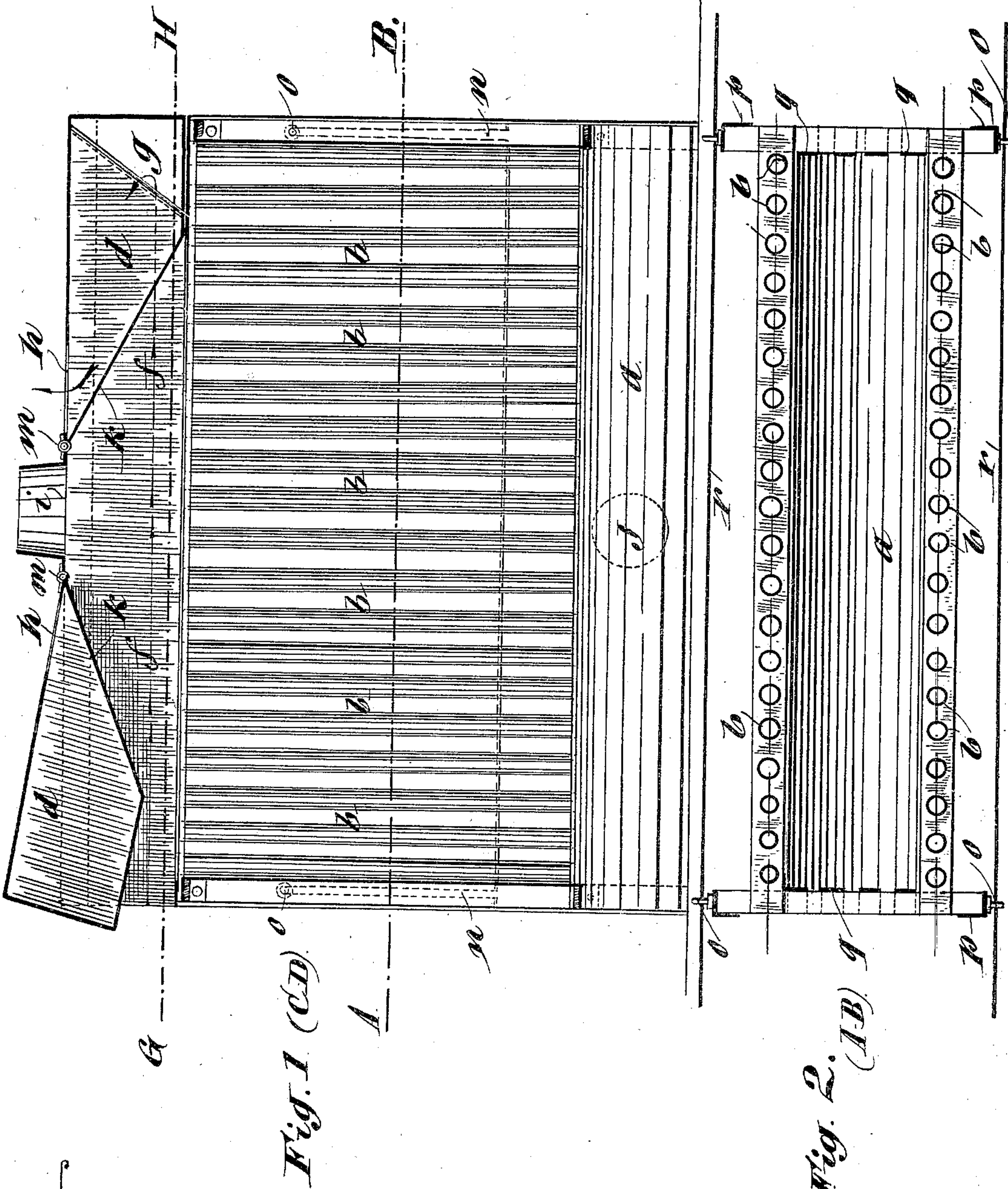
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STOVE FOR THE VENTILATION OF ROOMS OR OTHER PLACES.

(Application filed Oct. 23, 1901.)

(No Model.)

3 Sheets—Sheet 1.



WITNESSES.
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Fig 4. (G-H)

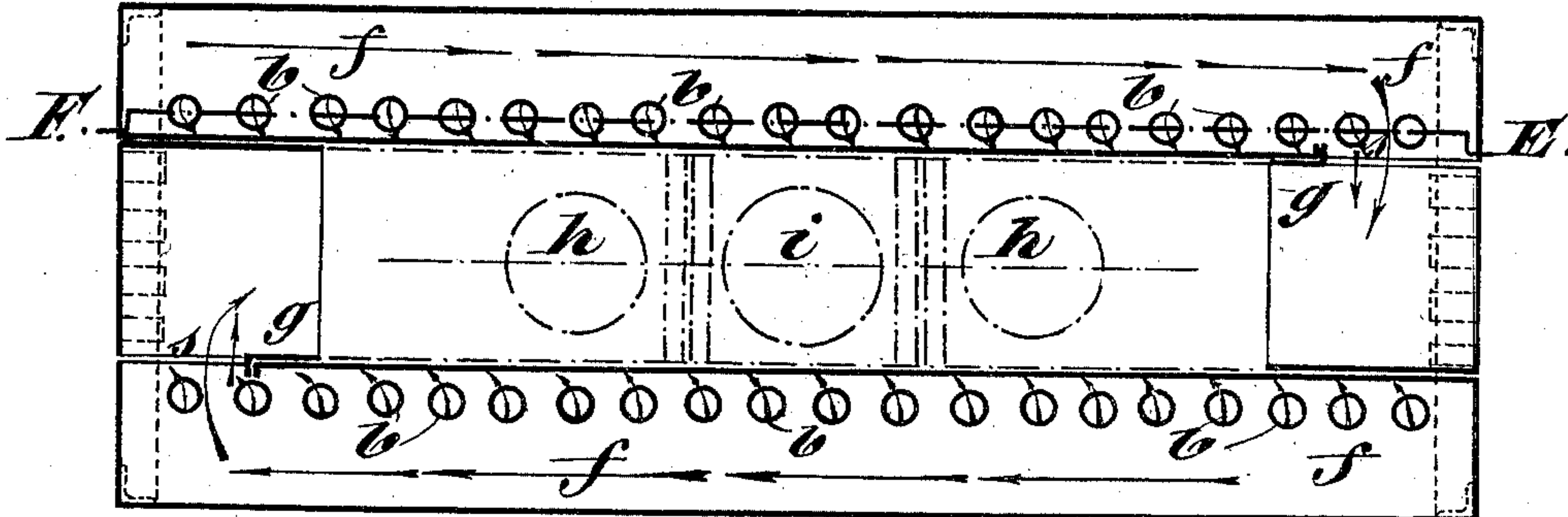


Fig. 5. (F-E)

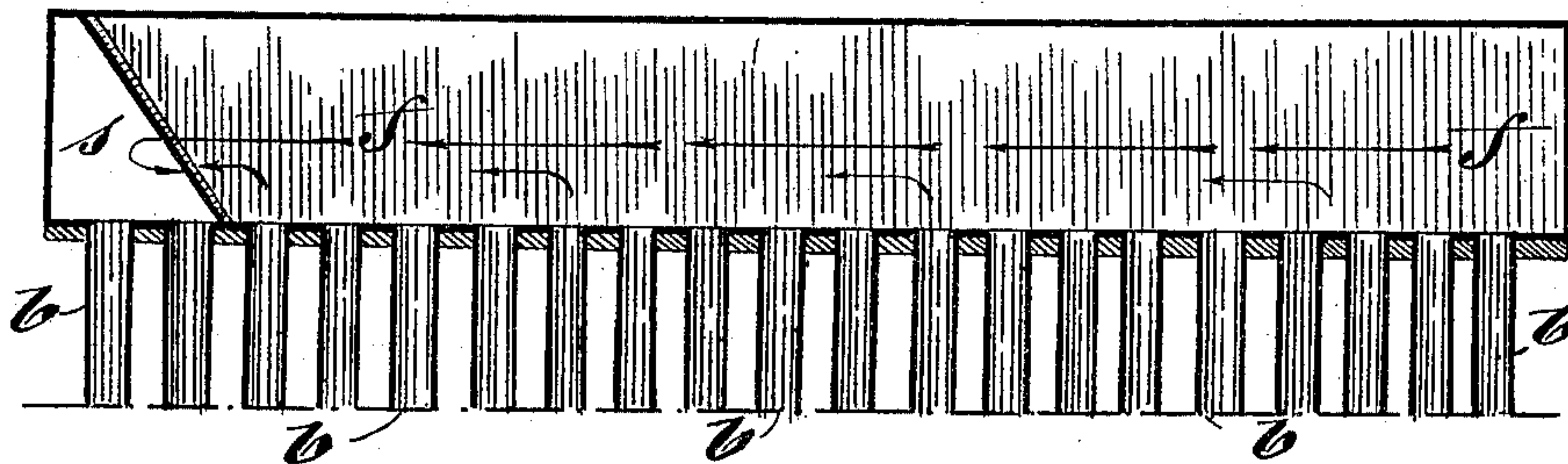
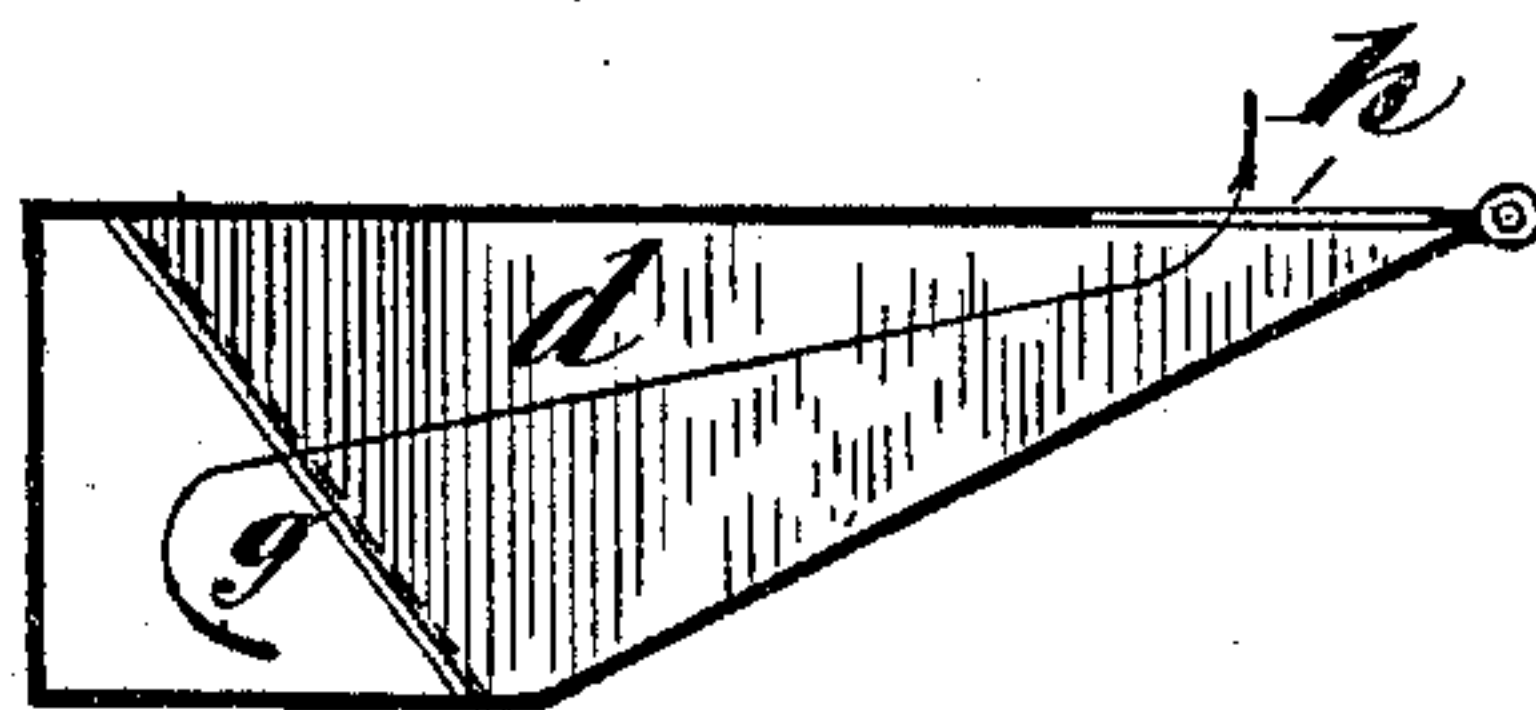


Fig. 6.



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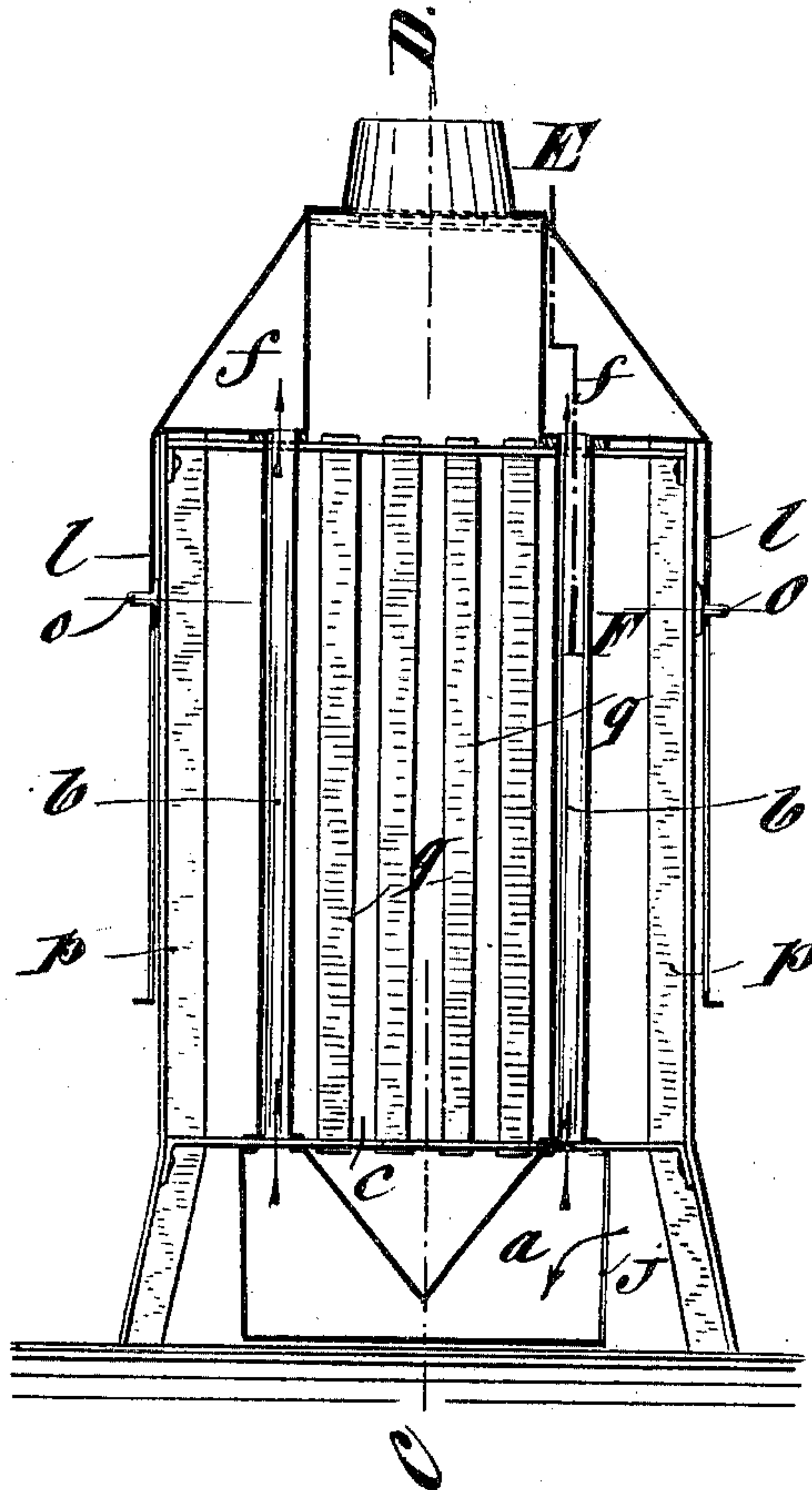
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3 Sheets—Sheet 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

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STOVE FOR THE VENTILATION OF ROOMS OR OTHER PLACES.

SPECIFICATION forming part of Letters Patent No. 696,610, dated April 1, 1902.

Application filed October 23, 1901. Serial No. 79,611. (No model.)

To all whom it may concern:

Be it known that I, HANS TÜRK, manufacturer, a subject of the Emperor of Germany, residing at Brussels, Belgium, have invented
5 a new and useful Stove for the Ventilation of Rooms or other Places; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates to heating apparatus
10 wherein air designed to serve as a medium for carrying the heat is conducted through pipes or tubes having appreciable length and which are exposed directly to the burning fuel. The kind of heating apparatus to which
15 my invention is particularly applicable is that in which wood or charcoal and the like are used as the fuel.

The objects of the invention are, first, to so construct the apparatus that the tubes before mentioned will serve, with the grate, as
20 a basket-like container or support for the fuel; second, to construct the apparatus with a hood, which while it leaves the lower portion of the aforementioned container open to the atmosphere serves to confine and conduct
25 off out of the apartment the gases and other products of combustion, and, third, to provide means adapted to serve the triple function of a damper, an expedient for conducting the heated air from the tubes into the
30 apartment to be heated, and a closure or door for the fuel-supply opening.

The invention is illustrated in the accompanying drawings, wherein—

35 Figure 1 is a vertical sectional view on the line C D in Fig. 3. Fig. 2 is a horizontal sectional view on the line A B in Fig. 1. Fig. 3 is a vertical sectional view taken perpendicularly to the sectional plane of Fig. 1.
40 Fig. 4 is a horizontal sectional view on the line G H in Fig. 1. Fig. 5 is a vertical sectional view on the line F E in Fig. 3, and Fig. 6 illustrates a detail.

p designates the frame of the apparatus;
45 *c*, the grate; *a*, a box whose top walls are converged downwardly, forming the ash-pit, and *i* the smoke pipe or discharge for the products of combustion.

b designates vertically-arranged tubes, and
50 *d* designates vertical bars, said tubes forming the two long sides and the bars the two

short sides of a basket-like compartment or container having for its bottom the grate *c*. The several tubes and bars are spaced so that between them the interior of said compartment is open to the atmosphere. It should
55 be remarked, also, that the tubes communicate at their lower ends with the box *a*, which box has an opening *j*, affording communication with the atmosphere. 60

Above the tubes is arranged a pair of boxes
f, having a triangular cross-section, the two vertical sides of said boxes forming a rectangular space or chamber *a'*, having for its outlet at the top the smoke-pipe *i* and open at
65 the bottom to the basket-like receptacle formed by the tubes and bars. With these boxes the several tubes communicate at their upper ends. The vertical wall of each box *f* is pierced by an opening *s*, the opening in
70 one box being at the right-hand end of the apparatus, as seen in Fig. 1, and the opening of the other being at the left-hand end of the apparatus.

At *m* on each side of the smoke-pipe *i* is
75 pivoted a device *d*, (seen in Fig. 6,) which serves as a means for conducting the air from the tubes *b* to the atmosphere, as a damper, and as a closure of access to the basket-like receptacle from the top of the apparatus. 80
This device is a hollow casing having an opening *g* arranged when the device is in its closed position to register with the opening *s* of the corresponding box *f* and also having another
85 opening *h* in its top wall. It should be remarked that the inner portion of the lower wall of each device *d* is inclined upwardly toward the smoke-pipe *i*. If it is desired to reduce the draft, one or both of the closures
90 formed by the devices *d* may be opened and propped or otherwise held up, so that the interior of the basket-like container is open to the atmosphere at the top. Likewise these
95 closures may be raised for the purpose of supplying fresh fuel.

From the boxes *f* is suspended a surrounding plate *l*, which extends down not quite as far as the bottom of the fuel-container. With the boxes *f* and the other parts of the super-
100 structure of the apparatus said plate *l* serves as a hood and confines gases and other products of combustion that might pass out into

the apartment instead of passing up the chimney.

Rings *o*, projecting from the frame *p*, serve as means to which to secure bars or other expedients for moving the apparatus. In order that the hood may be removed, the plate *l* is provided with slots *n*, accommodating said rings.

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

In a heating apparatus, the combination, with a grate, of tubes forming with said grate a fuel-container and open at one end to the atmosphere, a chamber arranged above and communicating with said fuel-container, another chamber communicating with said tubes

at their other ends and having a discharge, said first-named chamber having an opening communicating with the atmosphere and a smoke-discharge, and a movable hollow device constituting a closure for said opening and having an opening to the atmosphere and also an opening adapted to register with the discharge-opening of said other chamber, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HANS TÜRK.

Witnesses:

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