

(No Model.)

C. H. AMANN.

STOVE.

No. 346,631.

Patented Aug. 3, 1886.

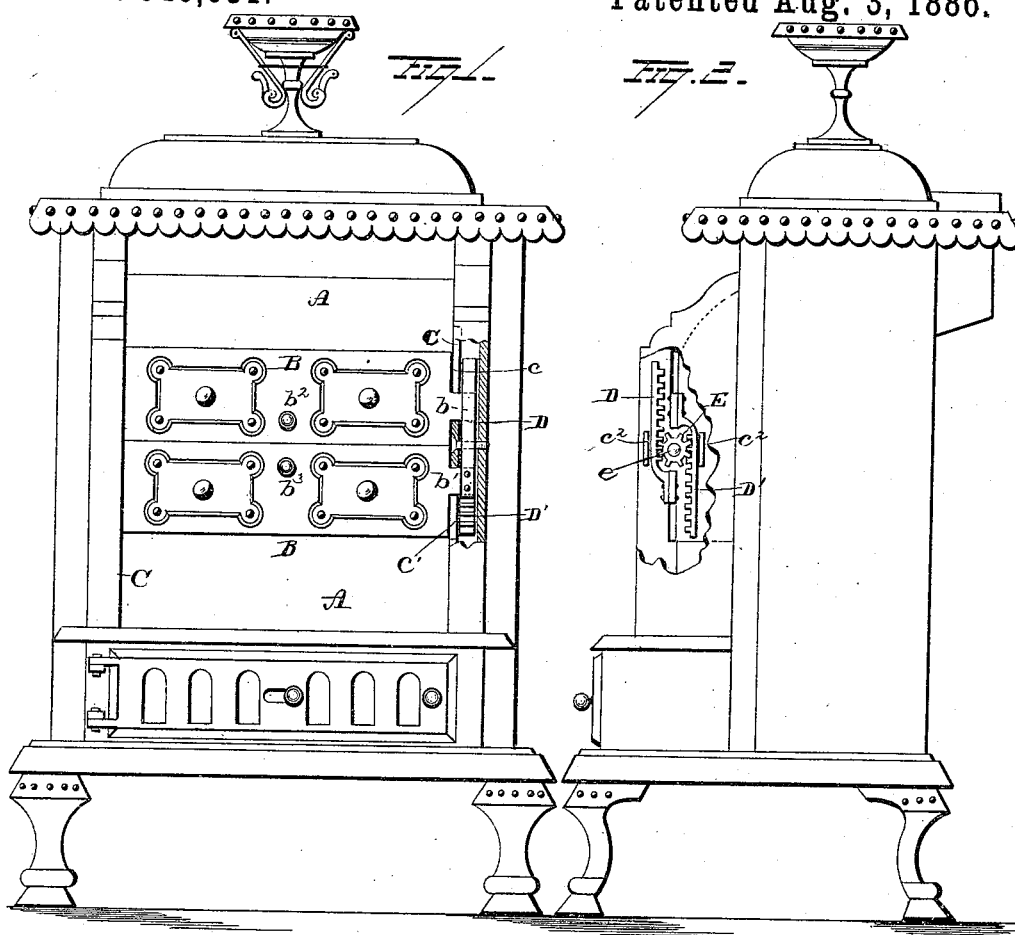


FIG. 4.

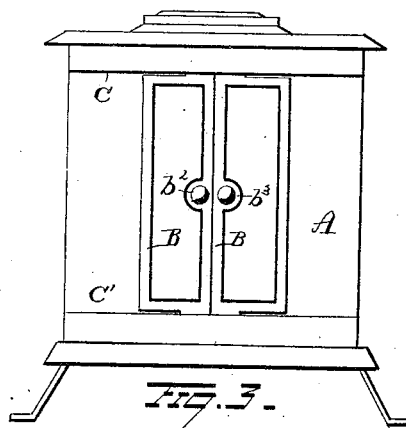
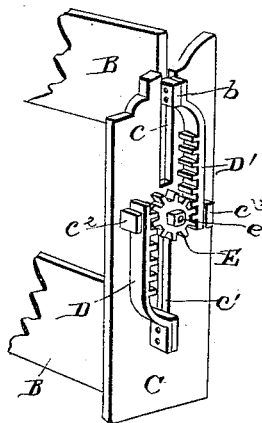


FIG. 3.

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CHARLES H. AMANN, OF COLUMBUS, OHIO.

STOVE.

SPECIFICATION forming part of Letters Patent No. 346,631, dated August 3, 1886.

Application filed January 14, 1886. Serial No. 188,556. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. AMANN, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful
5 Improvements in Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to sliding doors for stoves, and also to blowers for the same; and the object of my invention is to provide a two-part door or blower, both sections of which may be readily opened or closed by manipulating a single section.

15 To the above purpose my invention consists in a door or blower composed of two sliding sections, each of which is provided with a toothed rack and a gear-pinion, the teeth of which mesh with the teeth of the racks, where-
20 by motion imparted to one of the door or blower sections is simultaneously communicated to the other section, but in an opposite direction, to open or close the door or blower,
25 as hereinafter described and claimed.

My invention further consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

30 In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

35 Figure 1 is a front elevation of an open-front stove with my improved blower applied thereto, part of the casing being broken away to expose the working-gear. Fig. 2 is a side elevation of the same. Fig. 3 is a front elevation of a stove with my improved sliding
40 door applied thereto. Fig. 4 is a detached view of the blower shown in Figs. 1 and 2 and its operating-gear.

In the said drawings, A designates the stove-body of an open-front stove.

45 B B', in Figs. 1, 2, and 3, designate the two sections of the blower. At each end of each of these sections is formed a lug or extension, $b b'$, which enter slots $c c'$ in two side plates, C, so that the sections B B' may slide vertically in
50 said slots.

D D' designate two rack-bars, curved as

shown, and attached to opposite sides of the lugs $b b'$, so as to extend toward each other, the toothed sides of said bars being contiguous to each other, and of such length as, when the
55 sections B B' are farthest apart, to extend somewhat past each other.

E designates a gear-pinion, one of which is secured by a bolt, e , to each plate C between the rack-bars D D', and the teeth of which
60 mesh at all times with the teeth of said rack-bars.

In Fig. 3 the arrangement is practically the same, excepting that instead of the bars D D' being upon the sides of the door-sections B B' they are upon their top and bottom edges,
65 while the bars, the plates C, and pinions E are horizontal instead of vertical, as before. In either event guide-lugs $c^2 c^3$ may be formed upon the plates C, for insuring proper action
70 of the bars D D', and suitable knobs, $b^2 b^3$, should be provided for the sliding sections B B'. The upper slots, c , may also be left open at their upper ends to permit the ready removal and
75 replacement of the upper blower-section, B, Figs. 1, 2, and 3, when desired.

It will thus be seen that the door or blower may be readily opened or closed by simply moving either of its sections toward or away from the other section, the latter moving si-
80 multaneously in the opposite direction, owing to the action of the rack-bars D D' and pinions E.

While this arrangement is well suited to the sliding doors of the open-front or cylinder
85 stoves, it is especially advantageous in use as a blower, because it avoids the necessity of removing the blower bodily from the stove, and at the same time does not mar the appear-
90 ance of the same.

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

1. In a stove, the combination, with a body or frame, of a pair of sliding sections for clos-
95 ing the front of the stove, racks secured to the opposite ends of said sliding sections, and toothed pinions interposed between the racks, whereby the movements of one section are transmitted to the other section, substantially
100 as set forth.

2. In a stove, the combination, with a body

or frame and plate having slots therein, of the sliding sections, the ends of which rest within the slots, rack-bars secured to said ends, and pinions interposed between the rack-bars, 5 whereby the movements of one section are transmitted to the other section.

3. In a stove, the combination, with plates having slots and lugs and pinions journaled on bearings supported by said plates, of the 10 sliding sections for closing the front of the

stove, and the rack-bars secured to the opposite ends of said sections, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing 15 witnesses.

CHARLES H. AMANN.

Witnesses:

CHAS. E. BEDWELL,
LEWIS A. HARKER.