(No Model.)

A. GRANDER.

MAGAZINE STOVE.

No. 303,149. Patented Aug. 5, 1884.

Fig. 1.

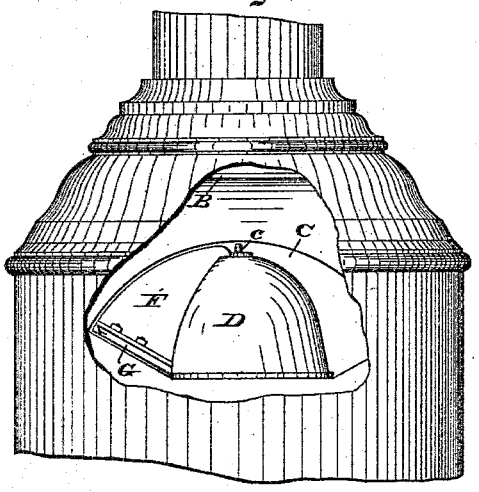


Fig. 2.

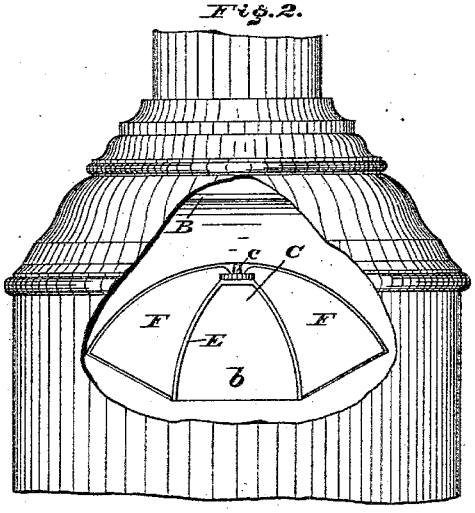


Fig. 3.

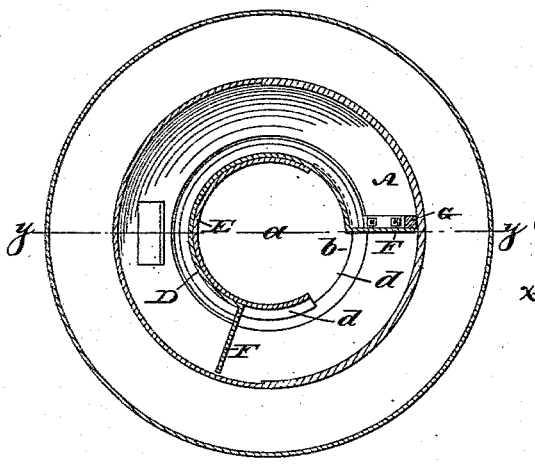
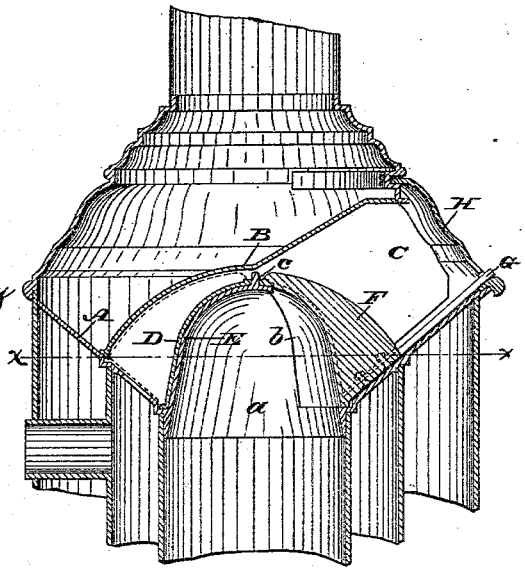


Fig. 4.



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UNITED STATES PATENT OFFICE.

ADAM GRANDER, OF ROYER'S FORD, PENNSYLVANIA.

MAGAZINE-STOVE.

SPECIFICATION forming part of Letters Patent No. 303,149, dated August 5, 1884.

Application filed January 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, ADAM GRANDER, a citizen of the United States, residing at Royer's Ford, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Magazine-Stoves, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figures 1 and 2 are front views of the portion of a magazine-stove embodying my invention, the same being respectively open and closed. Fig. 3 is a horizontal section in line *x x*, Fig. 4. Fig. 4 is a vertical section in line *y y*, Fig. 3.

Similar letters of reference indicate corresponding parts in the several figures.

My invention relates to improvements in magazine-stoves having the magazine-cover opened and closed by the slide or door of the feed-opening; and it consists in forming the magazine-cover and its counterpart stationary portion of dome shape, whereby advantages are attained, as will be hereinafter fully set forth.

Referring to the drawings, A represents the plate, having the top opening, *a*, of the magazine of a magazine-stove, and B represents the plate which overhangs the plate A, and is formed with the feed-opening C, a space existing between the two plates for the occupation and play of the rotary cover D of the magazine. Rising from the wall of the opening *a* is a dome-shaped cap, E, which is cut away, forming a passage, *b*, from the feed-opening C to said opening *a*. The cover D is fitted over the cap E, and pivoted thereto, as at *c*, one side being cut away, forming a passage, *d*, corresponding with the passage *b* of the cap, so that when the cover is opened the two passages coincide, thus permitting access to the opening *a* from the feed-opening C.

F represents wings, which project radially from the wall of the cut-away part of the cover D, so that when the latter is opened the wings F close the front of the space existing between the plates A B. Formed with or secured to the cover is a lever, G, with which is connected the sliding door H, which is properly supported and adapted to cover and uncover the feed-opening.

The operation is as follows: When the magazine is to be charged or filled with fuel, the door H is rotated, thus uncovering the feed-opening and operating the cover D, whereby the passage *b* is uncovered. The fuel may now be introduced into the magazine through the feed-door and the passages *d b* of the cover and cap, and so reaches the opening *a*, it being noticed that the wings F close the space between the plates A B, thus preventing the fuel entering and clogging the same. As soon as the magazine is supplied, the door and the cover D are restored to their normal position, thus bringing the wall of the cover over or around the passage *b* of the cap E, and the door H over the feed-opening C, thus completely closing said opening and the magazine.

The dome shape of the cap, and consequently of the cover, may be oval, as shown, or hemispherical, cylindrical, &c., one of the important features of making the cap of dome shape being the provision of a chamber above the magazine-opening for the guidance of the fuel to said opening, it also being seen that the plate A is concave and directs the fuel to the opening, and the passage *b* of the cap provides a large throat, which quickly clears the plate A of the fuel and prevents choking of the fuel. Furthermore, the dome-shaped cap is closed at top, and when the cover D is closed the side opening or passage, *b*, of said cap is also closed. This prevents the gas or products of combustion which rise in the magazine from escaping through the dome, it being noticed that the magazine is not employed for directing the products of combustion to the pipe or exit-flue of the stove.

I am aware that a dome-shaped cap, broadly considered, is not new, the same being formed with an opening at top for the direction of the products of combustion to the stove-pipe, such feature being hereby disclaimed.

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

1. In a magazine-stove, a feed-opening door, in combination with a dome-shaped cap above the magazine-opening, and a rotating cover fitted on the cap, the cap and cover being formed with passages which register when the cover is opened, and are in combination with

the feed and magazine openings, substantially as described.

2. In a magazine-stove, a cap above the magazine-opening, and a rotating cover therefor, in combination with the plates A B, between which said cover is fitted, the cover having wings F, for closing the space between said plates when the magazine is uncovered, substantially as and for the purpose set forth.

ADAM GRANDER.

Witnesses:
J. M. LEWIN,
WM. S. ESSICK.