

W. MAGILL.  
Magazine Stove.

No. 100,427.

Patented March 1, 1870.

fig. 1.

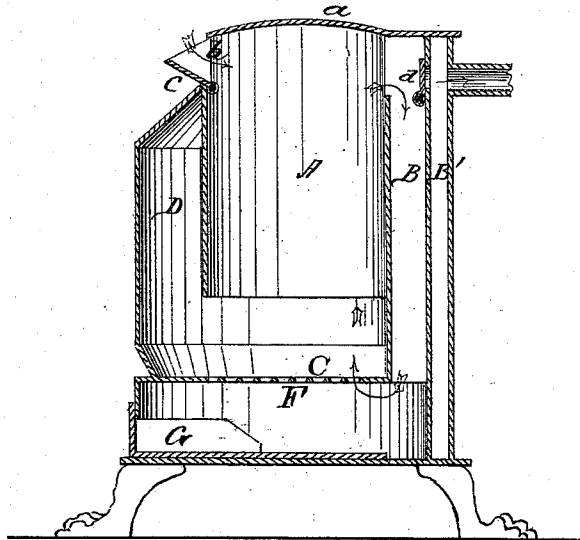
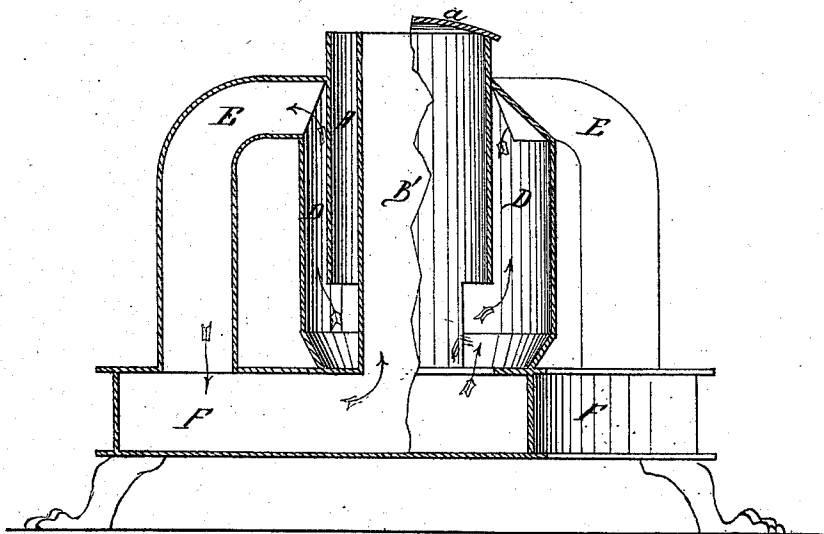


fig. 2.



Witnesses:

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# United States Patent Office.

WILLIAM MAGILL, OF PORT DEPOSIT, MARYLAND.

Letters Patent No. 100,427, dated March 1, 1870.

## BASE-BURNING STOVE

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, WILLIAM MAGILL, of Port Deposit, in the county of Cecil, and State of Maryland, have invented a new and useful Improvement in Stoves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figures 1 and 2 are sectional elevations from the side and front of the stove respectively.

This invention has for its object to cause the draught of a base-burning stove to enter at the top, pass over the fuel in the magazine, and, by flowing down a vertical flue at the rear of the stove, to gain a position, whence it may strike the fire from beneath.

In the drawings—

A is the magazine, provided with a removable cover, *a*, at the top, and also provided with an orifice, *b*, at one side, just beneath the cover *a*, and a hinged plate, *c*, which may be turned up, so as to be continuous with the wall of the magazine, and close the orifice *b*, or may be left in the inclined position shown in fig. 1, and thus form a chute through which fuel may be thrown into the magazine, and through which also the draught enters, there being no other draught-orifice.

The current of external air entering at *b* passes across the top of the fuel in the magazine.

B is a vertical flue at the rear of the magazine, having a damper, *d*, at its top, down which the draught passes.

The flue B extends downward to the level of the grate C, and its air-current, on issuing from the flue, is immediately beneath the grate, and rises directly through it.

After passing the grate, the draught, with its ad-

mixture of gas, rises through the chamber D, which surrounds the magazine A, and from the top of the chamber D it goes into the pipes E E, which branch off to each side, and conduct it once more downward into the hollow chamber F, at the base of the stove, whence it rises again by the escape-flue B', and passes off into the chimney.

In order to create a draught at the bottom, when the fire is kindling, the ash-pan G should be drawn out sufficiently to open its orifice in the side of the base chamber F, and the damper *d* at the top of the flue B should be closed. This causes the draught from the upper orifice *b* to sweep directly across to the escape-pipe, and the draught from the lower orifice to ascend through the magazine.

When the fire is well under way, the lower orifice should be closed, and the damper *d* opened.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. A base-burning stove, whose draught is introduced at one side near the top, passes laterally over the fuel in the magazine, and flows thence down the side to a position whence it may enter the fire from beneath, substantially as described.

2. The combination of the magazine A, flues B B', and hinged plates *c d*, in the manner described, and for the purpose of causing the draught to flow into the chimney direct from the magazine.

3. The combination of the magazine A, flues B B', chambers D F, and pipes E, in the manner and for the purpose specified.

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Witnesses:

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