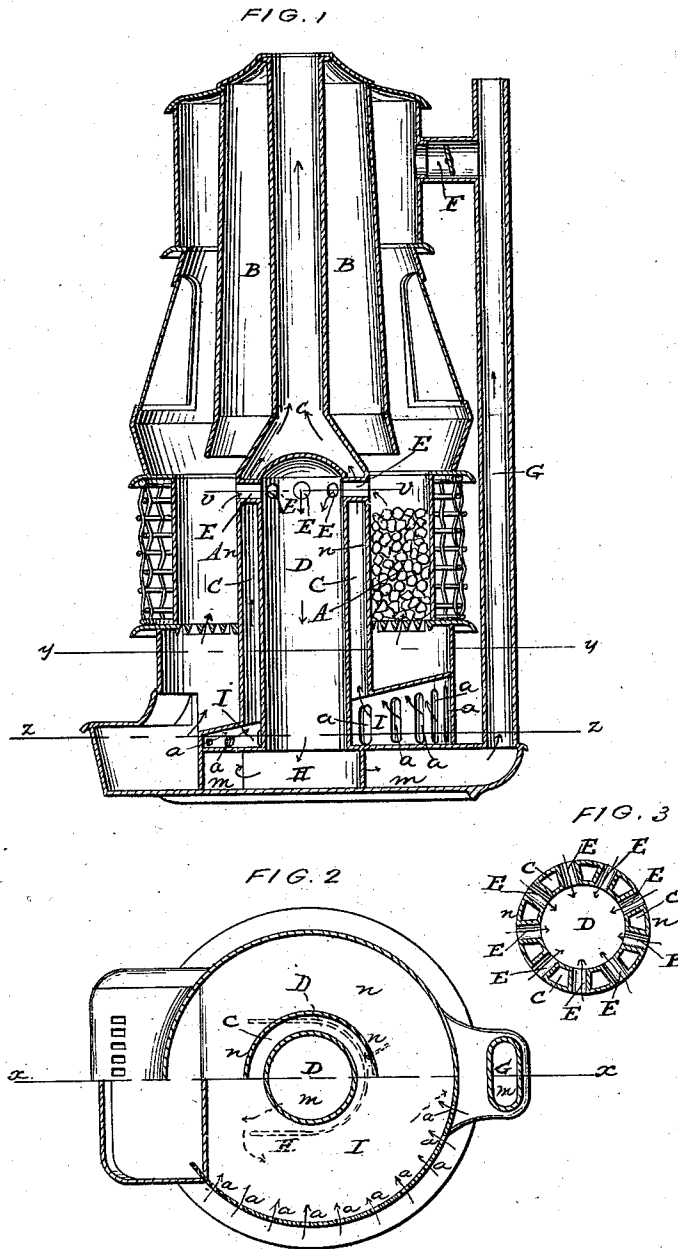


A. G. WEBSTER.
Magazine Stove.

No. 106,435.

Patented Aug. 16, 1870.



WITNESSES:

J. T. Goodfellow
George T. Laddler

INVENTOR:

Albert G. Webster

United States Patent Office.

ALBERT G. WEBSTER, OF TROY, NEW YORK, ASSIGNOR TO HIMSELF AND
GEORGE T. SCUDDER, OF SAME PLACE.

Letter's Patent No. 106,435, dated August 16, 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, ALBERT G. WEBSTER, of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Stoves and Heaters, of which the following is a full and clear description thereof, which will enable others skilled in the art to which this invention pertains to understand, make, and use the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a central vertical section view of my invention taken in a plane through the line *xx*, fig. 2;

Figure 2 is a horizontal section view of the same, in which that portion above the line *xx* is taken in a plane through the line *yy*, and that portion below the line *xx* by a plane through the line *zz*, fig. 1; and

Figure 3 is a horizontal section of a part of my invention taken in a plane through the line *vv*, fig. 1.

Like characters refer to corresponding parts in the various figures.

The object that I have in my invention is to more effectually utilize the heat evolved in the combustion of fuel in stoves and heaters; and

It consists in the combination, arrangement, and construction of certain parts of stoves and heaters, as hereinafter more fully described.

A is the combustion-chamber, which is supplied with fuel as in other stoves and heaters, either through a suitable door or doors in the side of the same above the fire, or by means of a magazine or feeder, B.

The combustion-chamber A is formed around or on two or more sides of the flue or flues C, and communicates with the descending flue or flues D, by means of the inlets E to the same.

The combustion-chamber A, and flues C and D, with inlets E, can be made of any suitable size, shape, or material.

The fuel in the combustion-chamber A being ignited, and draught-damper F, in the communication (direct) between the upper part of the stove or heater and the smoke-pipe G, being closed, the gaseous products of combustion are caused to pass through the inlets E into the flue or flues D; thence to the base of the

stove or heater, where said products of combustion are prevented from passing directly to the smoke-pipe G by the flue-strip or strips H, so arranged as to project said products of combustion forward and cause the same to come in contact with the entire internal surface of the base *m*.

Above the base *m*, and the smoke-flue or flues therein above formed, is formed the chamber I, into which air is admitted through a suitable opening or openings, *a*, which air passes thence up through the flue or flues C, and, becoming heated by contact with the internal surface of said flue or flues C, issues from the same at or near the top of the stove or heater. By a constant supply or current of cool air being thus brought in contact with the internal surface of the flue or flues C, the wall or walls *n* of the combustion-chamber A, and also, those of the descending flue or flues D, are protected from burning out by the heat developed in the combustion of the fuel in the fire-box A.

Having thus described my invention,

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

1. The descending flue or flues D, having inlets E, and passing through the body or center of the combustion-chamber A, and communicating with the base of the stove or heater, substantially as herein shown and described and for the purpose set forth.

2. The combination of the flue-strip or strips H with the base of the stove or heater, and the subject of the first claim, substantially as and for the purpose herein shown and specified.

3. The arrangement of the air-chamber I, having inlet opening or openings *a*, and the air-flue or flues C, in combination with the combustion-chamber A, and the subject of the first claim, substantially as shown and described, and for the purpose set forth in the above specification.

The above specification signed by me this 24th day of March, 1870.

ALBERT G. WEBSTER.

Witnesses:

J. T. GOODFELLOW,
GEORGE T. SCUDDER.