

(No Model.)

2 Sheets—Sheet 1.

F. MOSES.
HOT AIR FURNACE AND COOKING STOVE.

No. 467,755.

Patented Jan. 26, 1892.

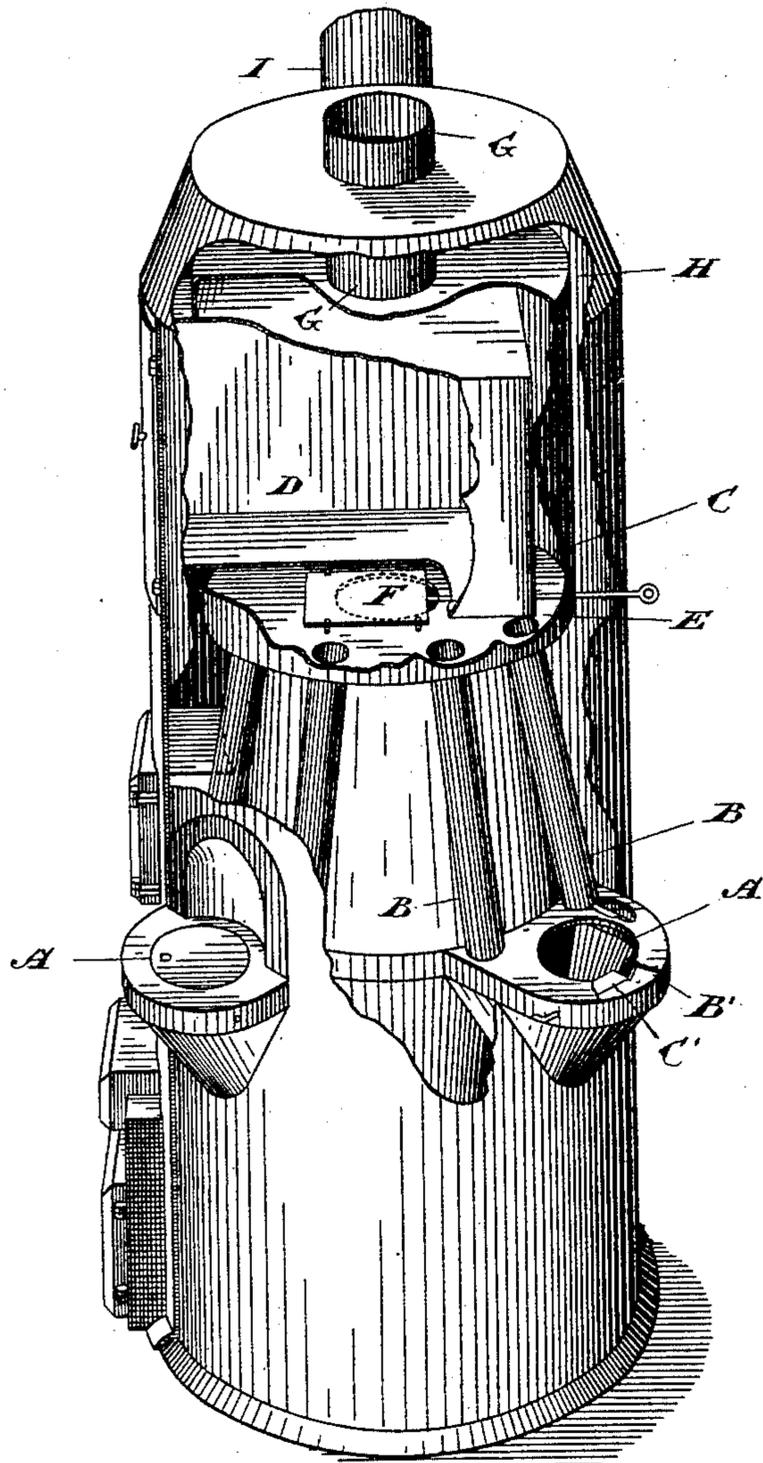


Fig. 1

Witnesses

J. Edw. Mayhew
W. G. McMullan

Inventor

Frank Moses
by Donald C. Ridout & Co.
Attys.

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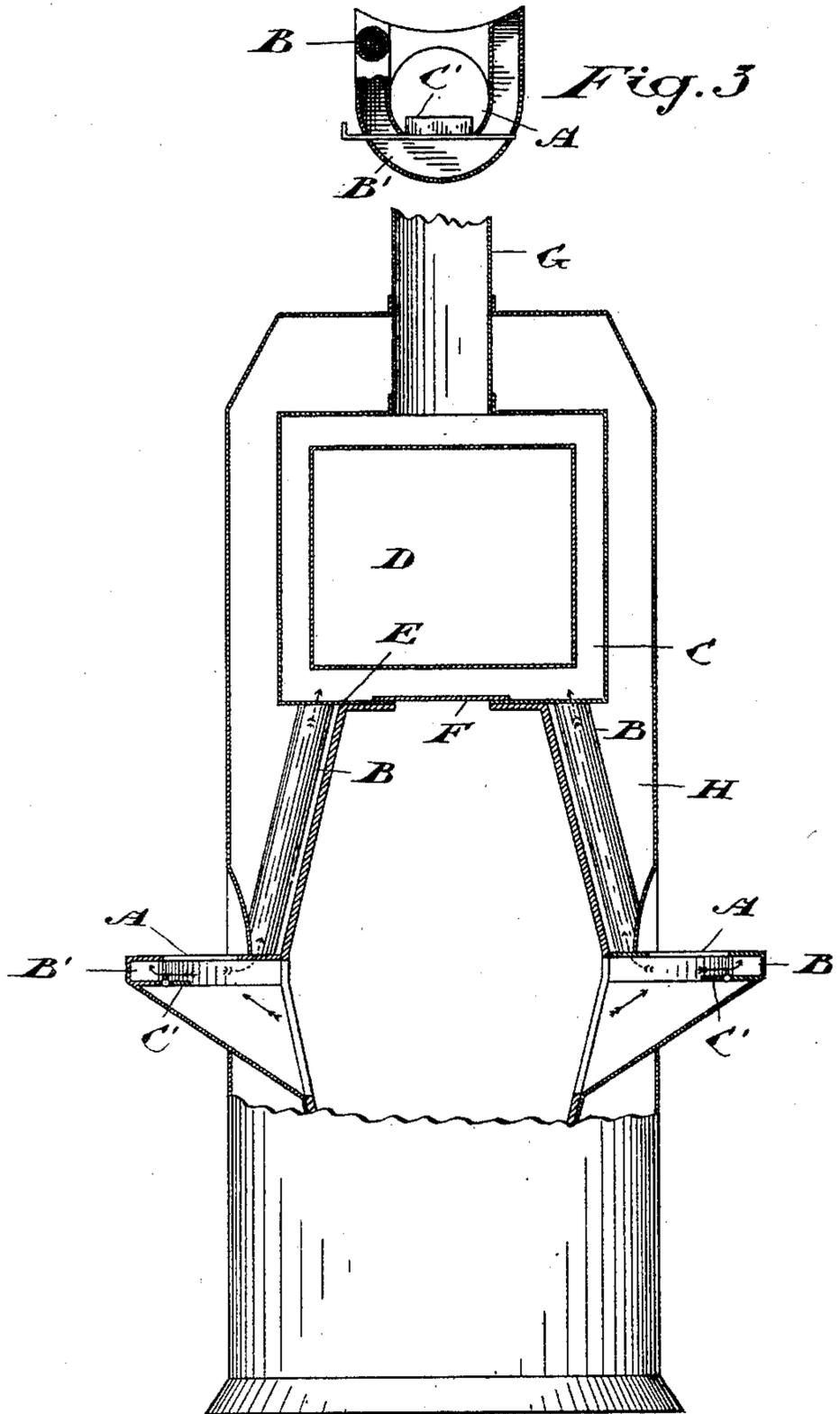


Fig. 2

Witnesses

J. Edw. Maybee
H. G. Mcmillan

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UNITED STATES PATENT OFFICE.

FRANK MOSES, OF TORONTO, CANADA.

HOT-AIR FURNACE AND COOKING-STOVE.

SPECIFICATION forming part of Letters Patent No. 467,755, dated January 26, 1892.

Application filed March 31, 1891. Serial No. 387,165. (No model.)

To all whom it may concern:

Be it known that I, FRANK MOSES, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented
5 a certain new and useful Combined Hot-Air Furnace and Cooking-Stove, of which the following is a specification.

The object of the invention is to adapt an ordinary hot-air furnace so that it may be
10 utilized for a cooking-stove without in any way interfering with its usefulness as a hot-air furnace; and it consists, essentially, of a series of pot-holes arranged around the furnace and connected to its fire-pot, an oven located above the fire-pot, and a series of flues
15 and pipes connecting the interior of the fire-pot with the interior of the chamber surrounding the oven in such a manner as to convey the smoke and heated gases from the fire-pot
20 past each pot-hole therein to the chamber surrounding the oven, substantially as herein-after more particularly explained and then definitely claimed.

Figure 1 is a perspective view of my improved device with parts broken away. Fig. 2 is a sectional elevation of the apparatus, showing by arrows the course of the smoke and products of combustion. Fig. 3 is a plan
25 of the pot-hole and its flue.

In the drawings I show two pot-holes A, but I do not confine myself to any particular number, as more or less may be used according to the taste of the manufacturer; but I may say that I prefer two pot-holes on each side of the
35 furnace. These pot-holes communicate with the fire-pot of the furnace, and each is surrounded by a flue B' from which the pipes B extend. A hole protected by a damper C' is made in the wall of the flue B', through which
40 hole the smoke and heated gases must pass before they reach the pipes B, which pipes lead to the chamber C, surrounding the oven D. The base E of the chamber C is immediately over the fire-pot of the furnace, and has
45 a hole in its center provided with an adjustable damper F. When this damper F is

opened, the smoke and heated gases will pass directly into the chamber C, and thence out through the smoke-pipe G. When this damper F is closed, the smoke and heated gases will
50 be directed toward the pot-holes A, passing through the hole in the wall of the flue B', and thence up through the pipe B into the chamber C. In this way I utilize the indirect draft of the furnace for the purpose of cooking on
55 the pot-holes A and in the chamber D. As the pipes B are arranged in the hot-air space H, the smoke and heated gases passing through them are utilized to the fullest extent for the purpose of heating the air passing through the
60 said air-space H, which hot air is conveyed through the pipes I in the ordinary manner.

From this description it will be seen that I utilize the heat from the fire-pot of an ordinary furnace for cooking purpose without in
65 any way detracting from the usefulness of the hot-air furnace for its ordinary purpose.

What I claim as my invention is—

1. The chamber C, located above the fire-pot of an ordinary hot-air furnace and surrounding an oven D, in combination with a series of pipes B, arranged within the hot-air space H and connecting the interior of the fire-pot with the interior of the chamber C, and an adjustable damper F, substantially as
70 and for the purpose specified.

2. A hot-air furnace having one or more pot-holes A extending from the side of its fire-pot, a series of pipes B, arranged to connect the interior of the fire-pot with the interior of the chamber C, located above the said fire-pot, in combination with an oven D, located within the chamber C, and an adjustable damper arranged over a hole in the base of the chamber C, substantially as and for
80 the purpose specified.

Toronto, March 13, 1891.

FRANK MOSES.

In presence of—

CHARLES C. BALDWIN,
JOHN E. CAMERON.