

(No Model.)

H. S. JORY.

FURNACE FOR FRUIT DRIERS AND OTHER USES.

No. 356,045.

Patented Jan. 11, 1887.

Fig: 1.

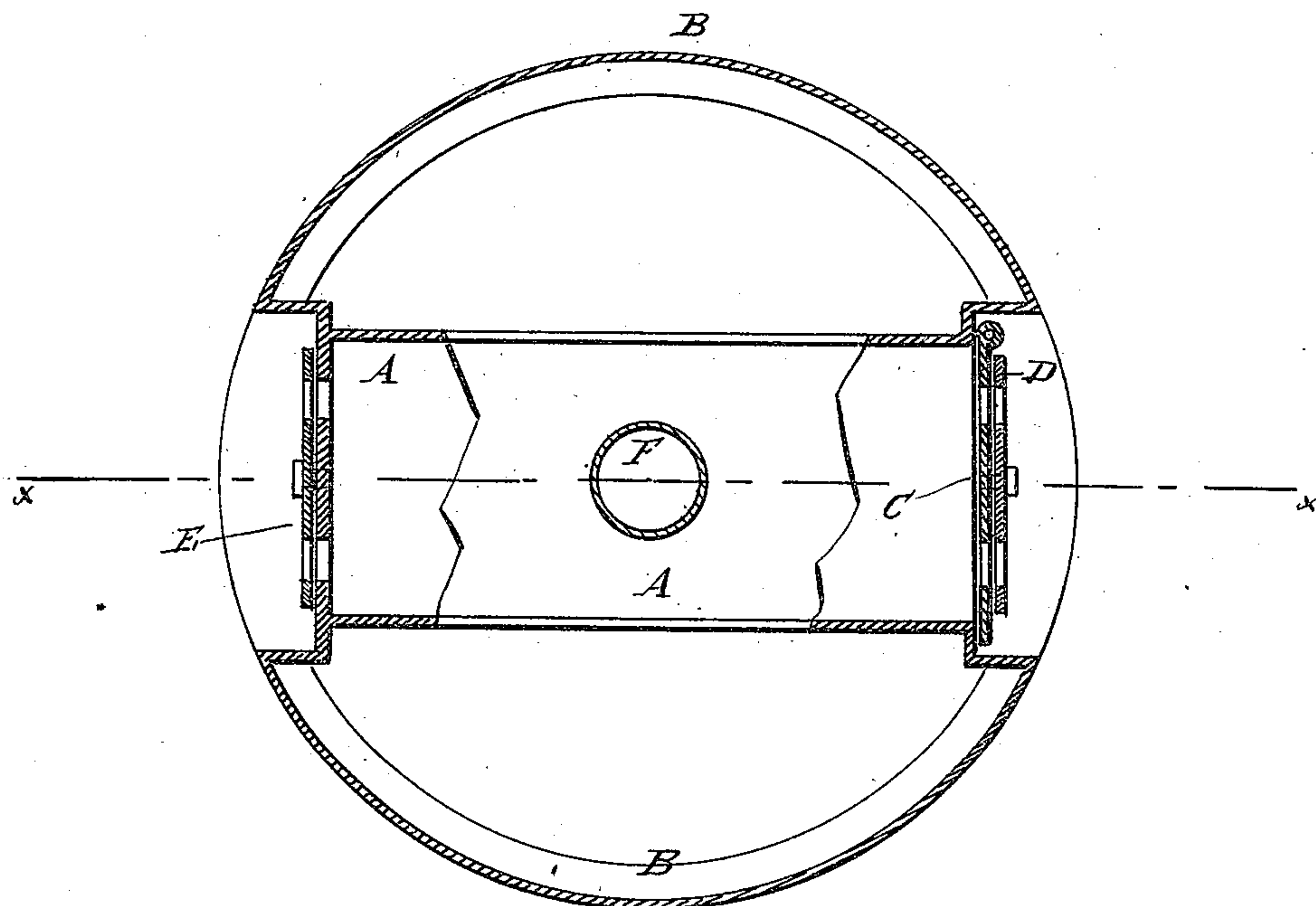
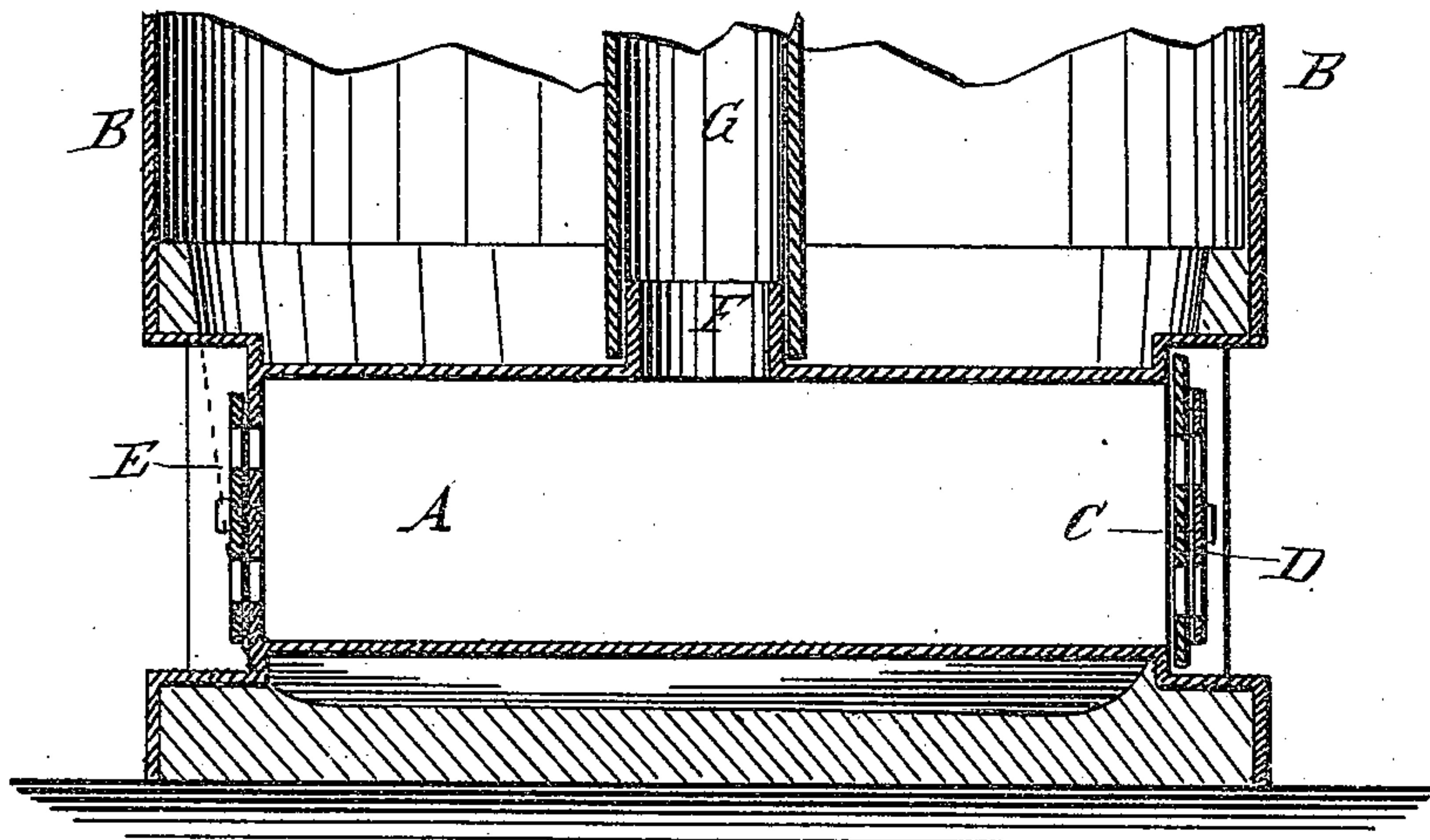


Fig: 2.



WITNESSES:

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FURNACE FOR FRUIT-DRIERS AND OTHER USES.

SPECIFICATION forming part of Letters Patent No. 356,045, dated January 11, 1887.

Application filed August 21, 1885. Serial No. 174,981. (No model.)

To all whom it may concern:

Be it known that I, HUGH S. JORY, of Salem, in the county of Marion and State of Oregon, have invented a new and useful Improvement in Furnaces for Fruit-Driers and other Uses, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of one of my improved furnaces, partly in section, and showing a sectional plan view of its inclosing casing. Fig. 2 is a sectional side elevation of the same, taken through the line *x x*, Fig. 1.

The object of this invention is to provide furnaces for fruit-driers and other uses constructed in such a manner as to secure a thorough consumption of the fuel and a thorough utilization of the heat developed by the said consumption of fuel.

The invention consists in a furnace made with draft-openings at both ends, whereby thorough combustion of the fuel is secured.

A represents the furnace, which can be of any desired size, as the purpose for which the said furnace is to be used may require.

The furnace A is surrounded with a casing, B, within which the fruit or other substance to be dried can be placed, or from which hot air can be taken for heating purposes. The casing B is designed to be made of a greater diameter than the length of the furnace A, and has recesses in its sides, as shown in Figs. 1 and 2, with the walls of which the ends of the furnace A are connected, so as to bring the fire beneath the middle part of the said casing B.

The furnace A is provided with a door, C, and a damper, D, at each end, or with a door, C, and damper D at one end, and a damper, E, at the other end, so that air to support combustion can enter at either or both ends of the said furnace, to cause a thorough combustion of the fuel and secure the development of the

greatest amount of heat at the middle part of the said furnace.

With this construction a grate to support the fuel will not be necessary, but may be used, if desired.

In the center of the top of the furnace A is formed an opening provided with a collar, F, upon which is placed the lower end of the smoke-pipe G, which passes up through the center of the casing B, so that the heat passing off with the smoke will be utilized.

The furnace with draft-openings at both ends can be used without the casing as a heating-stove, if desired.

I am aware that furnaces have been provided with doors at opposite ends or sides for the convenience of introducing the fuel; but I am not aware that a furnace has been provided with diametrically-opposite draft-openings controlled by dampers, whereby the use of a grate is avoided and thorough combustion of the fuel secured.

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

1. A furnace for fruit-driers and the like, consisting of an inclosing-casing and a furnace extending across the same, and having a smoke-flue projecting from its top up through the casing, and diametrically-opposite draft-openings provided with dampers for opening and closing said openings, substantially as herein shown and described.

2. The combination, with a casing having opposite recesses in its sides, of a furnace of less length than the diameter of the said casing secured in the same and provided with a central flue, draft-apertures in each end, and dampers for opening and closing said apertures, substantially as herein shown and described.

HUGH S. JORY.

Witnesses:

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