

J. MONGENE.

Fruit. Drier.

No. 102,298.

Patented April 26, 1870.

Fig. 1

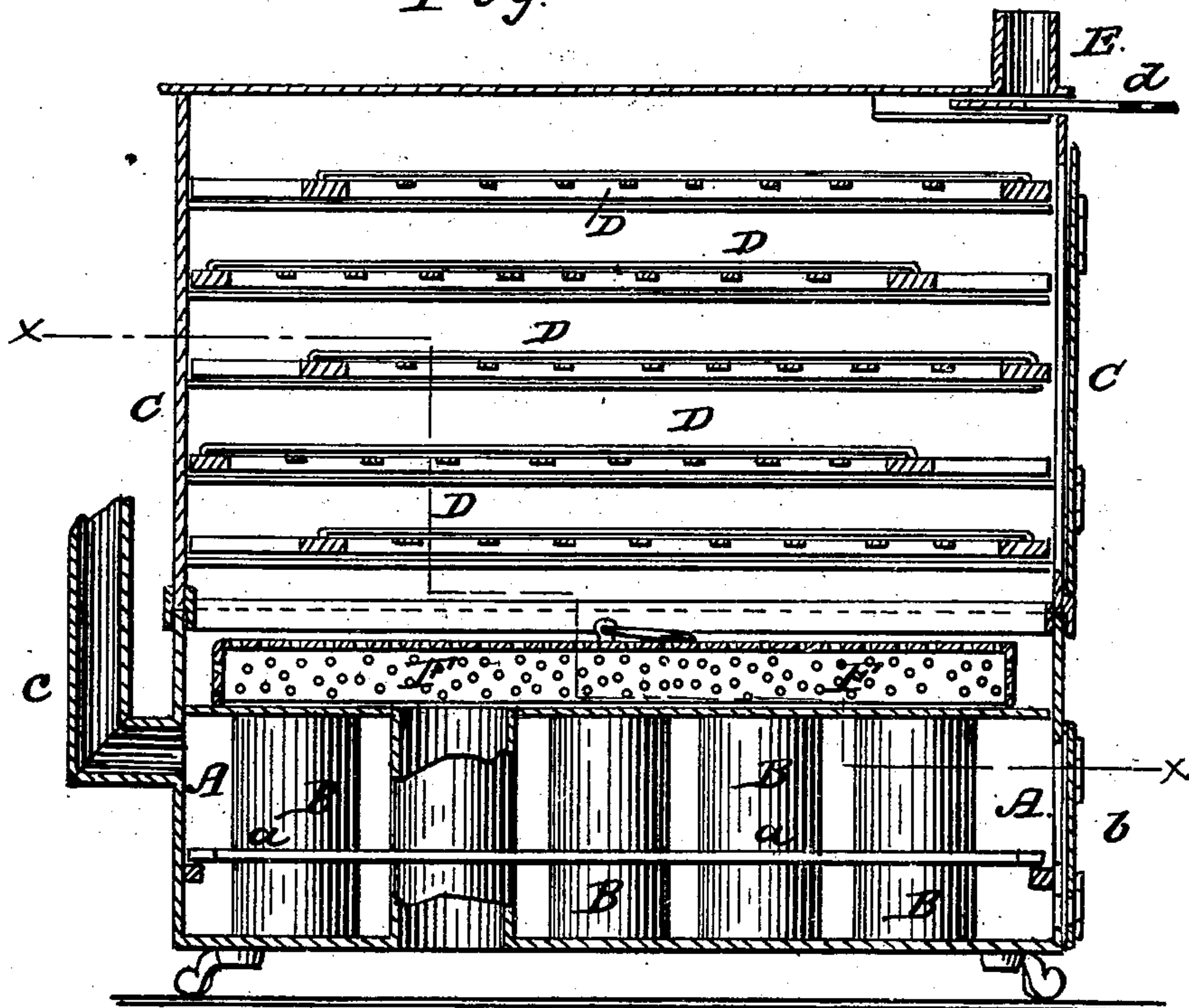
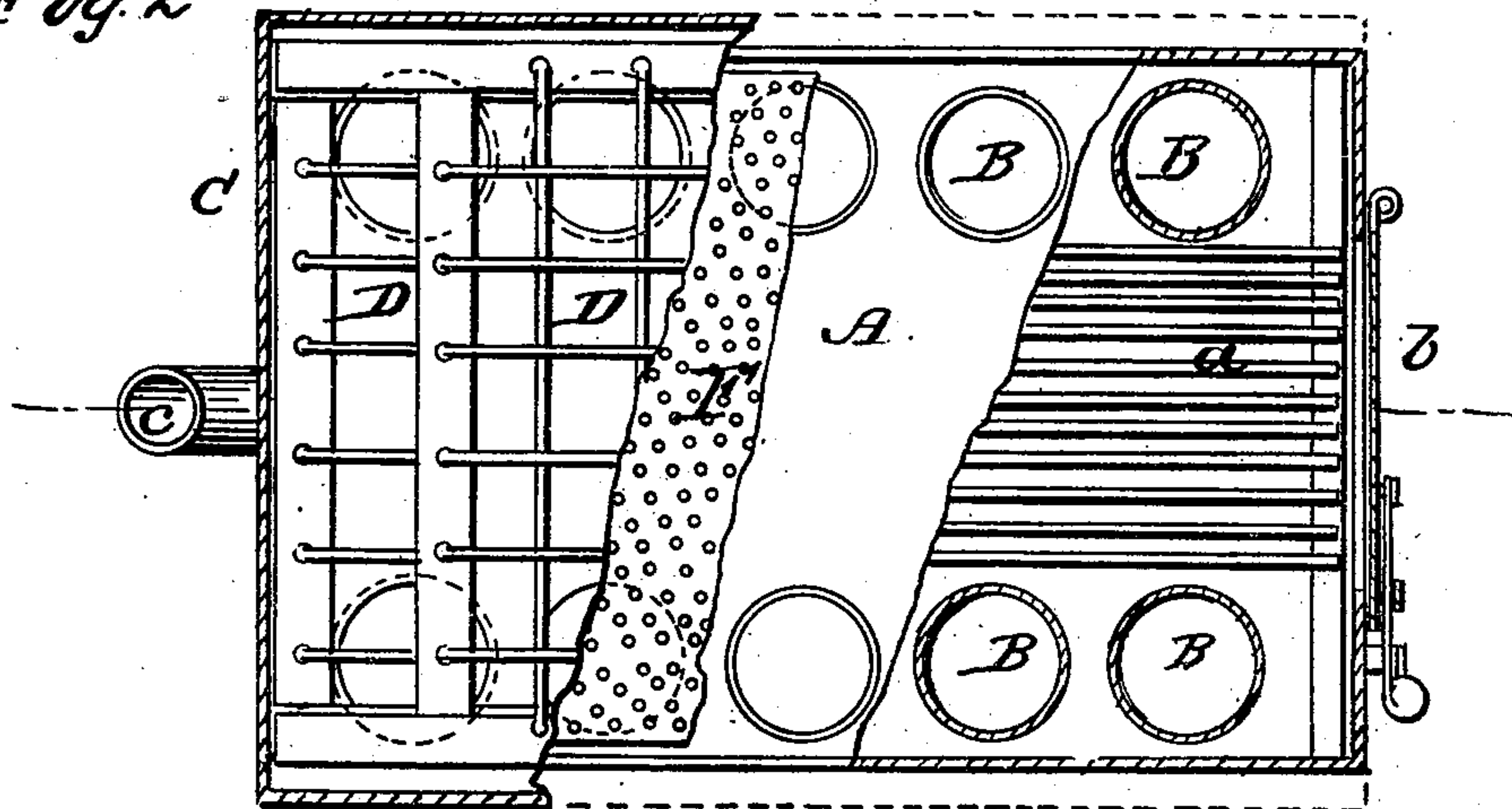


Fig. 2



Witnesses

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JOSEPH MONGENE, OF VINCENNES, INDIANA.

Letters Patent No. 102,298, dated April 26, 1870.

IMPROVEMENT IN FRUIT-DRIERS.

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, JOSEPH MONGENE, of Vincennes, in the county of Knox and State of Indiana, have invented a new and improved Fruit-Drier; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a vertical longitudinal section of my improved fruit-drier.

Figure 2 is a horizontal section of the same, taken on the plane of the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a novel apparatus for drying fruit, grain, &c., and has for its object to properly utilize the heat of a furnace, so as to obtain rapid and satisfactory action upon the fruit.

The invention consists in the general combination of parts, as hereinafter more fully described.

A in the drawing represents the furnace of my improved fruit-drier.

The same is made of metal or built up of masonry, and has a grate, *a*, extending throughout the entire or part of its length.

It has the fire-door *b* in front, and a smoke-pipe, *c*, in rear.

The furnace is traversed by a series of vertical air-

flues, B B, which connect the top and bottom plates of said furnace, and are open at both ends.

The dryer proper, C, is placed upon the furnace A. It is a vessel of suitable size, containing a series of shelves, D D, which are to support the fruit to be dried.

The shelves are so placed as to leave alternate air-passages at the opposite ends of the drier, as is shown in fig. 1.

The air, which is heated in the flues B passes up into the drier and under each shelf of the same, and serves to rapidly dry the articles on the shelves.

The hot air can be caused to escape with greater or lesser rapidity through a flue, E, which is provided with a damper, *d*.

A perforated plate, F, is interposed between the furnace and the drier, for the purpose of spreading the hot air before it enters the drier.

Having thus described my invention,

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

The combination of the furnace, vertical air-flues B, perforated plate F, and drier C, all parts being arranged to operate substantially as herein shown and described.

JOSEPH MONGENE.

Witnesses:

EDWARD MARKHAM,
ALFRED M. ALMY.