

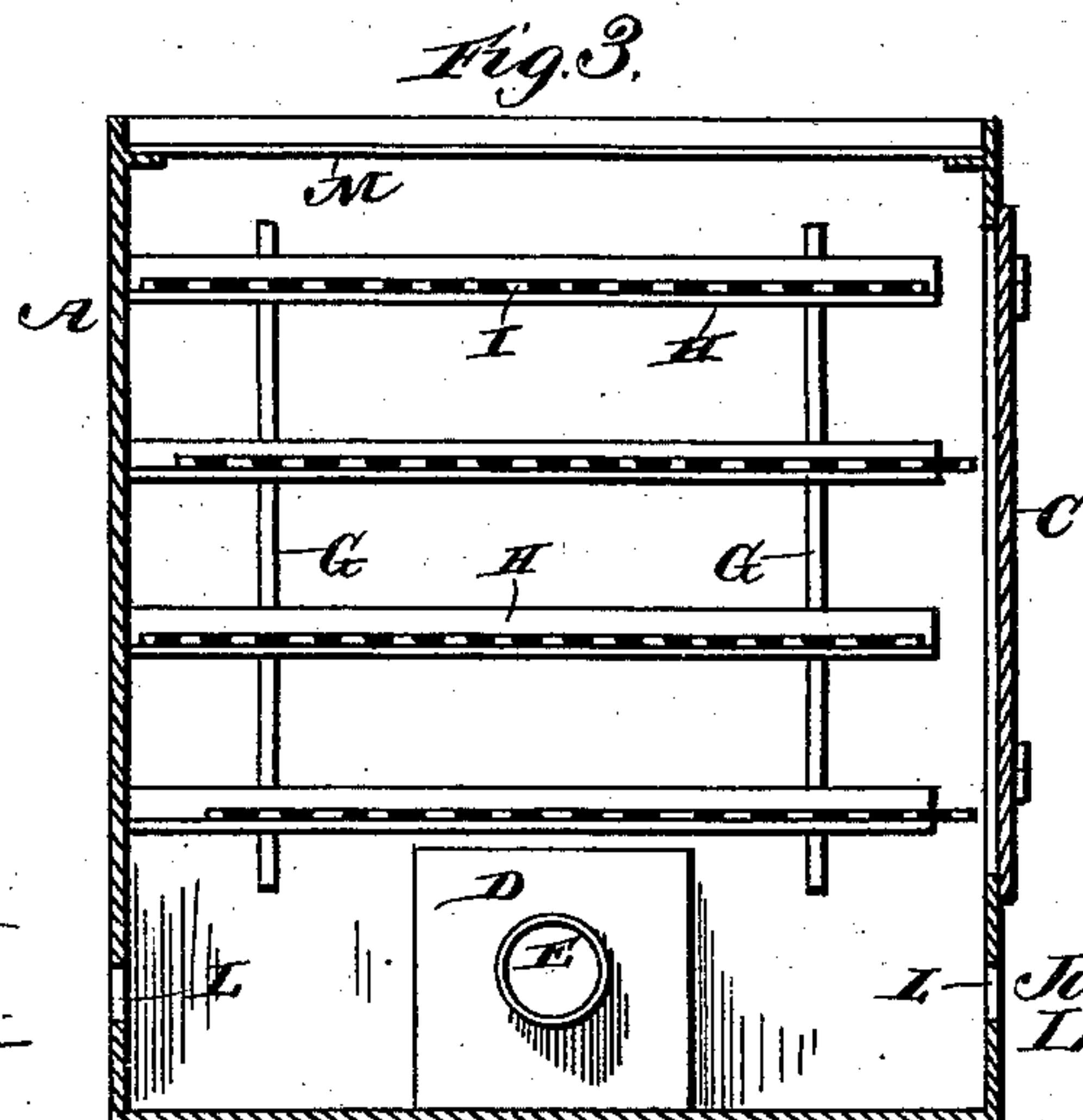
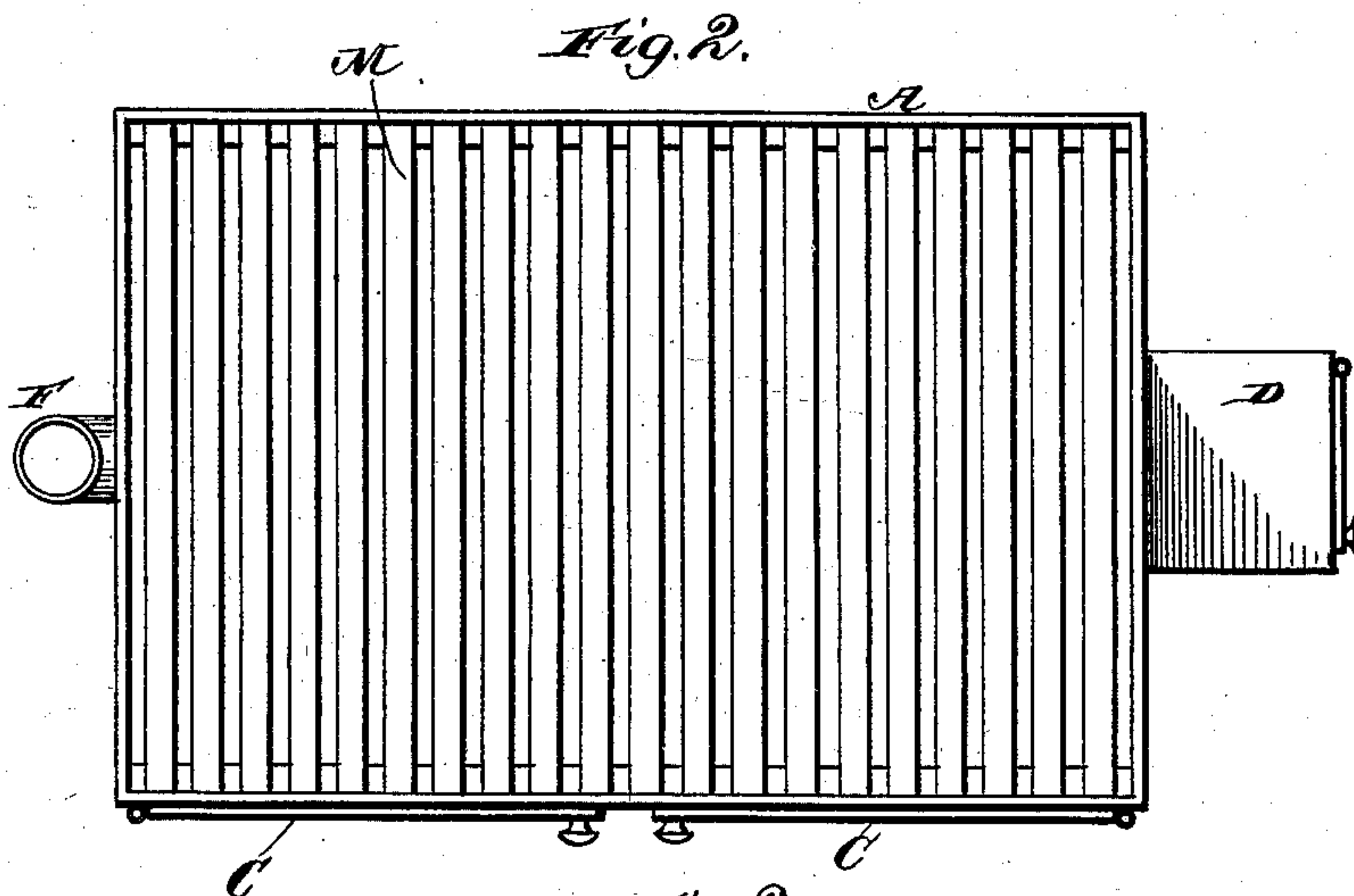
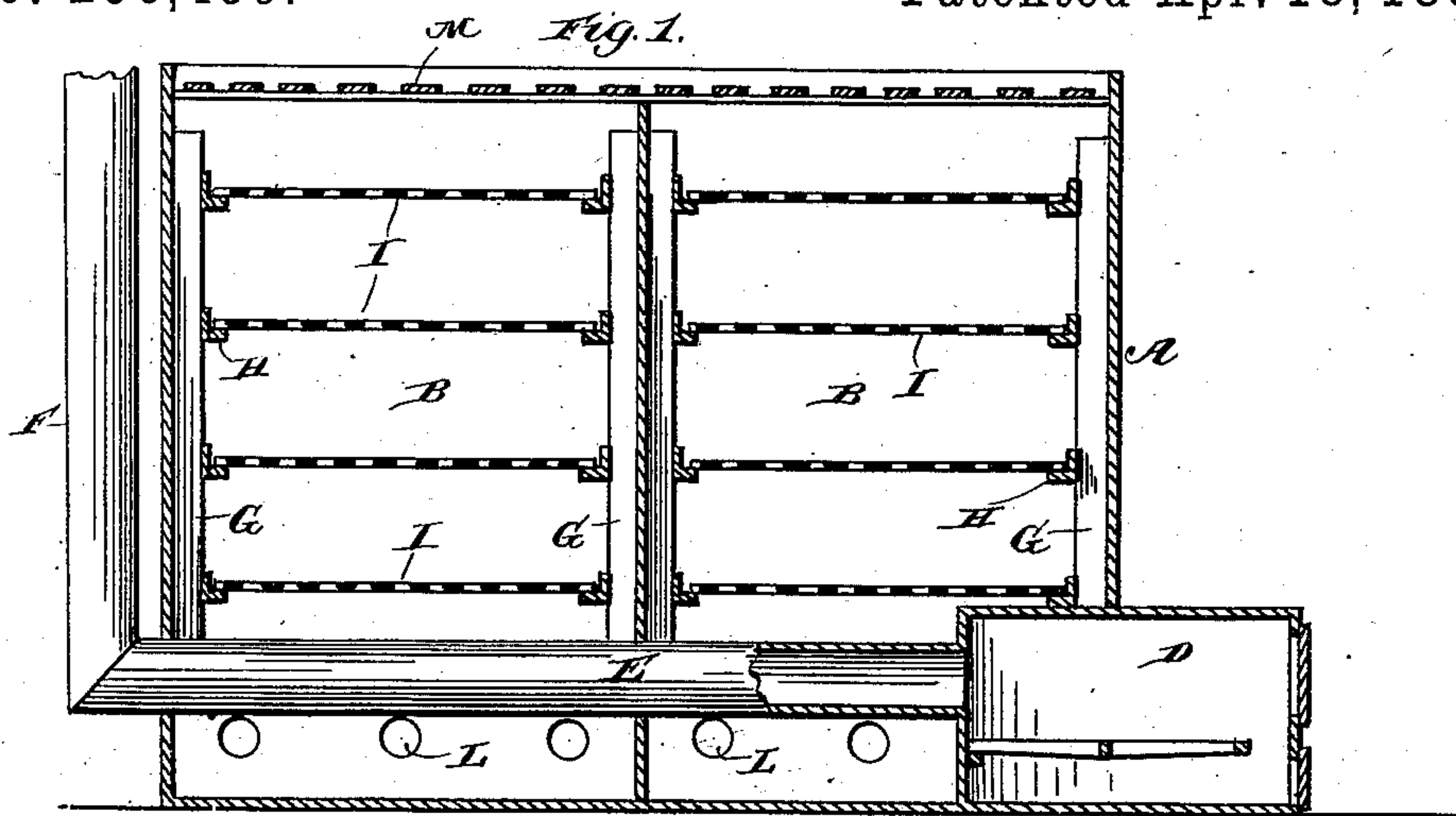
(No Model.)

J. D. BURNETT & L. C. HILL.

FRUIT DRIER.

No. 256,459.

Patented Apr. 18, 1882.



Witnesses.

Robert Everett  
H. Clay Smith

Inventors.

James D. Burnett.  
Louis C. Hill.

By *T. S. Smith* atty

# UNITED STATES PATENT OFFICE.

JAMES D. BURNETT AND LOUIS C. HILL, OF MYRTLE CREEK, OREGON.

## FRUIT-DRIER.

SPECIFICATION forming part of Letters Patent No. 256,459, dated April 18, 1882.

Application filed December 6, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES D. BURNETT and LOUIS C. HILL, of Myrtle Creek, in the county of Douglas and State of Oregon, have  
5 invented new and useful Improvements in Fruit-Driers; and we do hereby declare that the following is a full, clear, and exact description of the invention, reference being had to the accompanying drawings, sufficient to  
10 enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to evaporators usually employed in drying fruit, berries, and the like; and the novelty consists in the construction  
15 and arrangement of parts, as will be more specifically pointed out in the claim.

We designate the invention as "the granger fruit-drier;" and the objects of the invention are to produce a maximum of heat and evaporating surface with a minimum of heat-surface; to provide separate chambers, so that the manipulation of removable trays in one chamber will not interfere with the temperature in the others, and to provide air-inlets  
20 into the heating-chamber and an open top to the device.

To subserve these ends the invention consists in a proper frame having two or more vertical chambers, upon vertical bars of each side  
30 of which are provided proper guideways, which furnish removable bearings for horizontal perforated or screened trays. A furnace connected to the lower portion of the frame, extending partially into one of the said chambers, is connected to a heat-giving pipe, which affords  
35 heat to a heating-chamber located in the bottom of the frame, and which has an exit-connection through the external chute, as shown. These lower heating-chambers are each provided with side inlet-apertures, which admit  
40 air that passes through the screens and out of the top of each chamber, which is open, and provided with transverse slats or bars having spaces between, the area of the spaces being  
45 formed proportionately to the area of the in-

lets. Each chamber has a separate and independent door, so that the operator while manipulating the trays in one chamber will not materially affect the temperature of the others. The trays are of such length as to allow such  
50 a distance between their ends and the adjacent sides of the frame as to force the current of air alternately under each and over and through each.

The invention is fully shown in the drawings, in which Figure 1 is a vertical longitudinal section; Fig. 2, a top plan view; and Fig. 3 is a transverse section of the same.

Referring to the drawings, A represents the frame which forms chambers B, each of which  
60 is provided with a separate door, C.

D represents the furnace, located in the lower portion of the frame A, from which a heating-pipe, E, connects the furnace D with the external chimney, F, said pipe E leading  
65 through the series of chambers, as shown. Upon the inner side of each chamber is affixed vertical bars G, to which are secured guideways H, in which operate screens or trays I, which are of sufficient length to allow of the  
70 directing of the current in alternated directions. The lower or heat chamber is provided with air-inlets L, and the upper portion is open, spaces being left between the slats M.

What we claim is—

The fruit-drier herein described, consisting  
75 of the case A, having inlets L and open tops M, the chambers B, having independent doors C, guides H, bars G, trays I, of shorter length than the transverse plane of the several chambers, arranged alternately, as shown, the furnace D, and pipe E, leading through each of the chambers, all arranged and combined to  
80 operate as set forth.

JAMES D. BURNETT.  
LOUIS C. HILL.

Witnesses:

BURGER HERMANN,  
W. S. CANAN.