

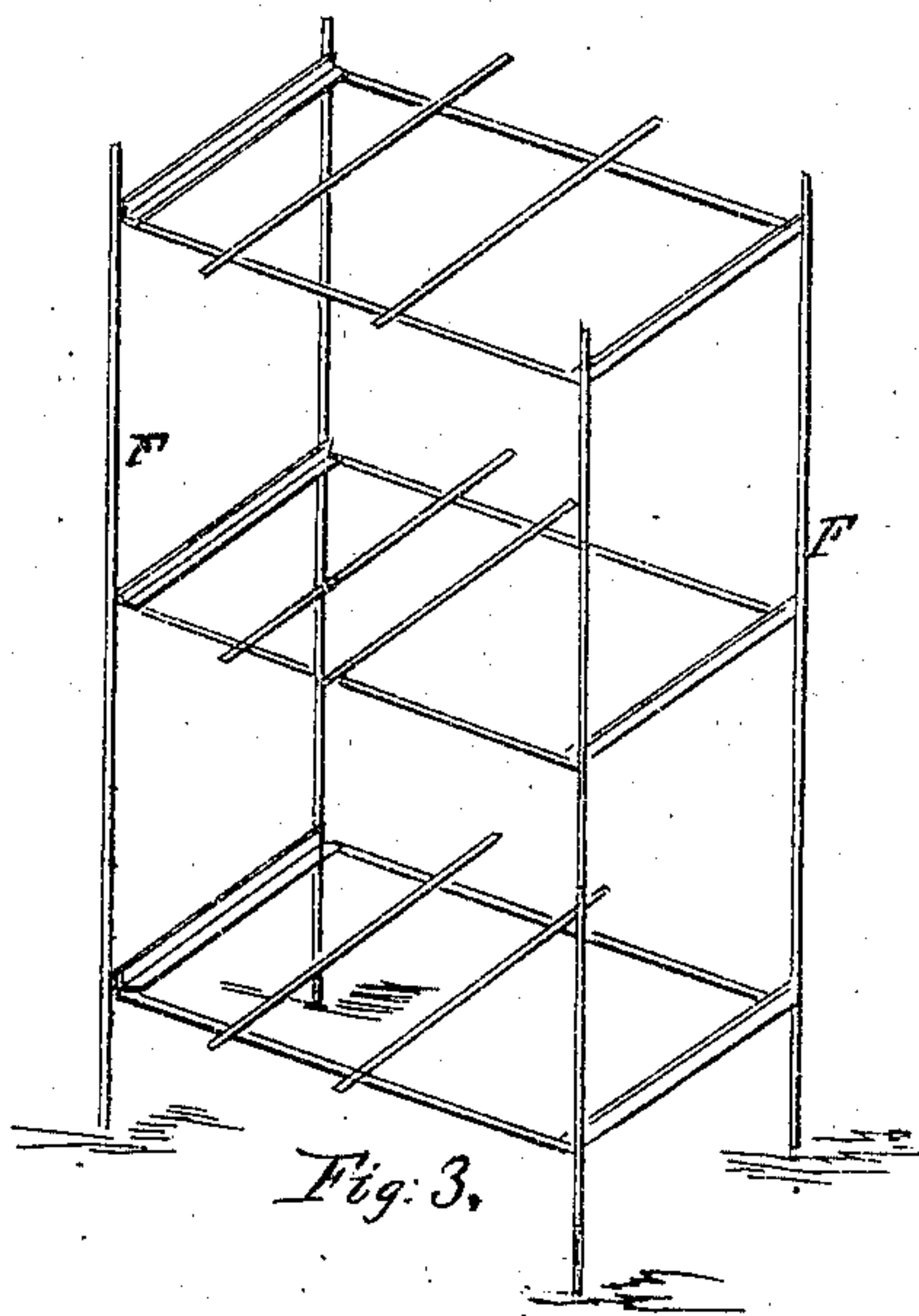
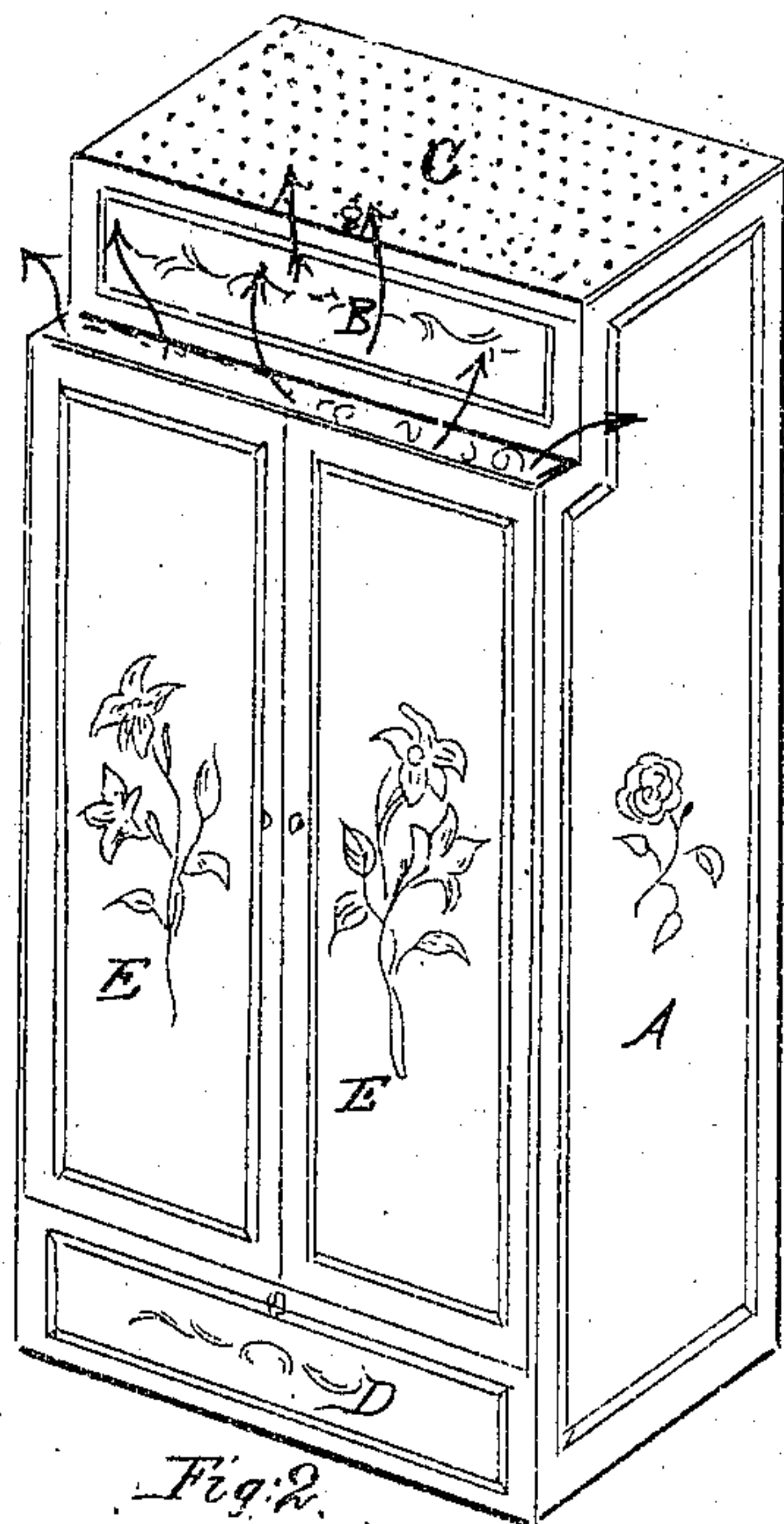
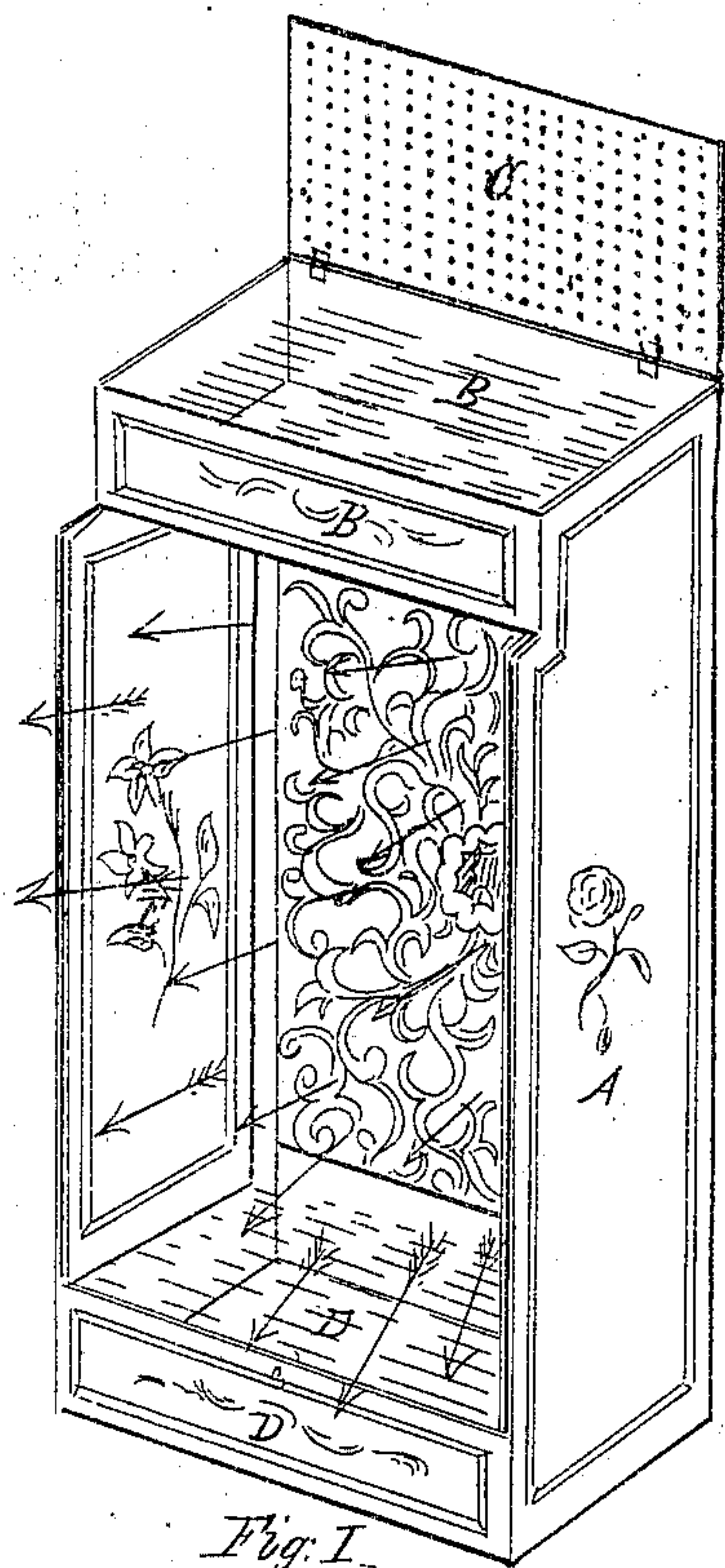
James D. McBride's

Imp^d Combined Evaporator, Heater, Dryer and Oven

74968

PATENTED

FEB 25 1868



Witnesses

J. E. Hayden.
J. W. Hopkins

Inventor

James D. McBride
By Lindell and Co. Attys

United States Patent Office.

JAMES D. McBRIDE. OF MANSFIELD, OHIO.

Letters Patent No. 74,968, dated February 25, 1868.

IMPROVEMENT IN ATTACHMENT FOR HOT-AIR REGISTERS.

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, JAMES D. McBRIDE, of Mansfield, in the county of Richland, and in the State of Ohio, have invented an Improved Combined Evaporator, Heat-Director, Drier, and Oven; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 shows my improvement with the doors open.

Figure 2 shows the same with the doors closed.

Figure 3 shows a tier of shelves fitted to the inside of the case.

Letters of like name refer to like parts in each of the figures.

The nature of my invention consists in an attachment to registers for the purpose of remedying some of the evils attendant upon the use of hot air for warming rooms, among which are a lack of sufficient moisture to render the atmosphere healthy, and want of means for controlling the current of hot air, so as to prevent its rising immediately to the ceiling before the lower part of the room is warmed; and soiling the wall or paper for several feet above the register by the soot and dirt it contains.

It is also intended to furnish means for warming the many articles required in a sick-room, or for drying cloths, or any small articles of clothing.

A represents the case or frame placed over the register, and held firmly against the wall by flanges, against which the register is pressed by the screws holding it in place. B is a tray, for holding water for evaporation, with a cover, C, which is perforated, to allow the steam to escape. D is another tray, formed by the bottom of the case, and is also used to hold water for evaporation. E E are doors, by which the front of the case A can be closed, when desired.

When it is desired to warm a room quickly, the doors E E are opened, and the air passing through the register receives direction from the case surrounding it, and is then thrown with much force far into the room before rising to the ceiling. The current of air, in passing over the tray D, evaporates a sufficient quantity of water to properly moisten the air, and render it pleasant and healthy. When less heat is required, the doors E E are closed, throwing the air upwards through the space between the tray B and doors E E, heating the water in the tray B to any degree of temperature required. This is especially convenient when hot water is desired for the sick-room, shaving, &c.

When articles of food or other things require warming, the stand of shelves F is placed in the case, the doors being open, and the articles placed thereon, when, by regulating the flow of hot air, they can be readily and quickly prepared.

If desirable, hooks may be placed upon the under side of the tray B, upon which small articles of clothing, cloths, &c., can be hung to dry, the strong current of air producing results in a few minutes that would require hours to accomplish in any other way.

Having thus fully set forth the nature and merits of my improvement, what I claim as my invention, and desire to secure by Letters Patent, is—

In combination with an attachment for a hot-air register, the water-vessels B and D, arranged in the manner and substantially as herein described.

I also claim the stand F, when used for the purpose and in the manner substantially as herein set forth.

I also claim the combination of the several parts A, B, C, D, E, and F, for the purpose and substantially as herein described.

In testimony that I claim the foregoing, I have hereunto set my hand, this 18th day of February, 1868.

JAS. D. McBRIDE.

Witnesses:

GEO. TRUESDELL,
DAVIS E. CASTLE.