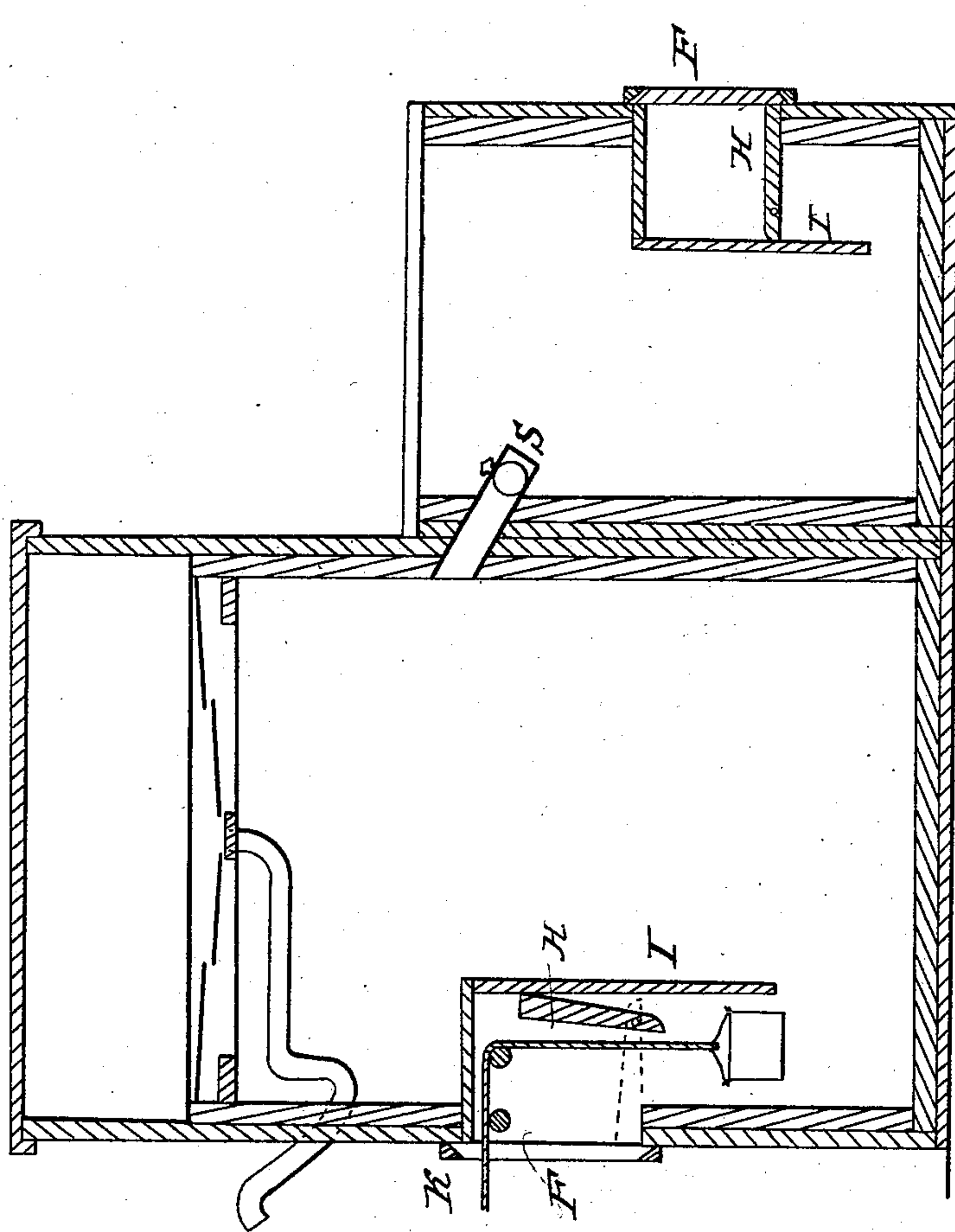


T. B. SMITH.

Refrigerator.

No 5,772.

Patented Sept. 19, 1848.



UNITED STATES PATENT OFFICE.

THOMAS B. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

REFRIGERATOR.

Specification of Letters Patent No. 5,772, dated September 19, 1848.

To all whom it may concern:

Be it known that I, THOMAS B. SMITH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Mode of Constructing Doorways or Entrances to Refrigerators Without Disturbing the Temperature of the Air in the Inside; and I do hereby declare that the following is a full and exact description.

The drawing represents a section through the apparatus.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation. I construct a refrigerator upon any of the usual plans and of any size, but more particularly employ that method by which the greatest amount of cold can be obtained from a given quantity of ice, namely, putting the ice on the top of the refrigerator, by which mode of procedure the cold air descends and fills the internal space. In order to obtain an entrance I cut a doorway at any desirable height from the bottom as shown at letter K in the accompanying drawing, this doorway I make double and lined with any good nonconducting substance or confined air, after opening the outside door F a hatchway or trap-door H is lifted and a well is formed by constructing a square wooden nonconducting partition to within a convenient height from the bottom of the refrigerator

as shown at letter I. The operation of this well or partition is as follows.

The air inside being cold cannot ascend and displace the warm air on the outside, and the hot or warm air outside cannot by reason of its superior levity descend. When therefore the doors are thrown open no change takes place. I propose also that this refrigerator with its accompanying doorway shall form the center of other rooms, or have one or more rooms or boxes attached to it and by means of one or more openings with valves *g*, sliding doors or other method the cold air in the refrigerator may be admitted to the other apartments for the purpose of reducing the temperature sufficiently low to keep such articles as will usually keep in a cool cellar, as may be seen by reference to the drawings or model.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application to refrigerators of the doorway and nonconducting partition I to obtain entrance without affecting the temperature inside as described; and in combination with said refrigerator the employment of pipes or valves *s* to admit cool air into the adjacent rooms.

THOMAS B. SMITH.

Witnesses:

JACOB L. WENDELL,
GEORGE MEADER.