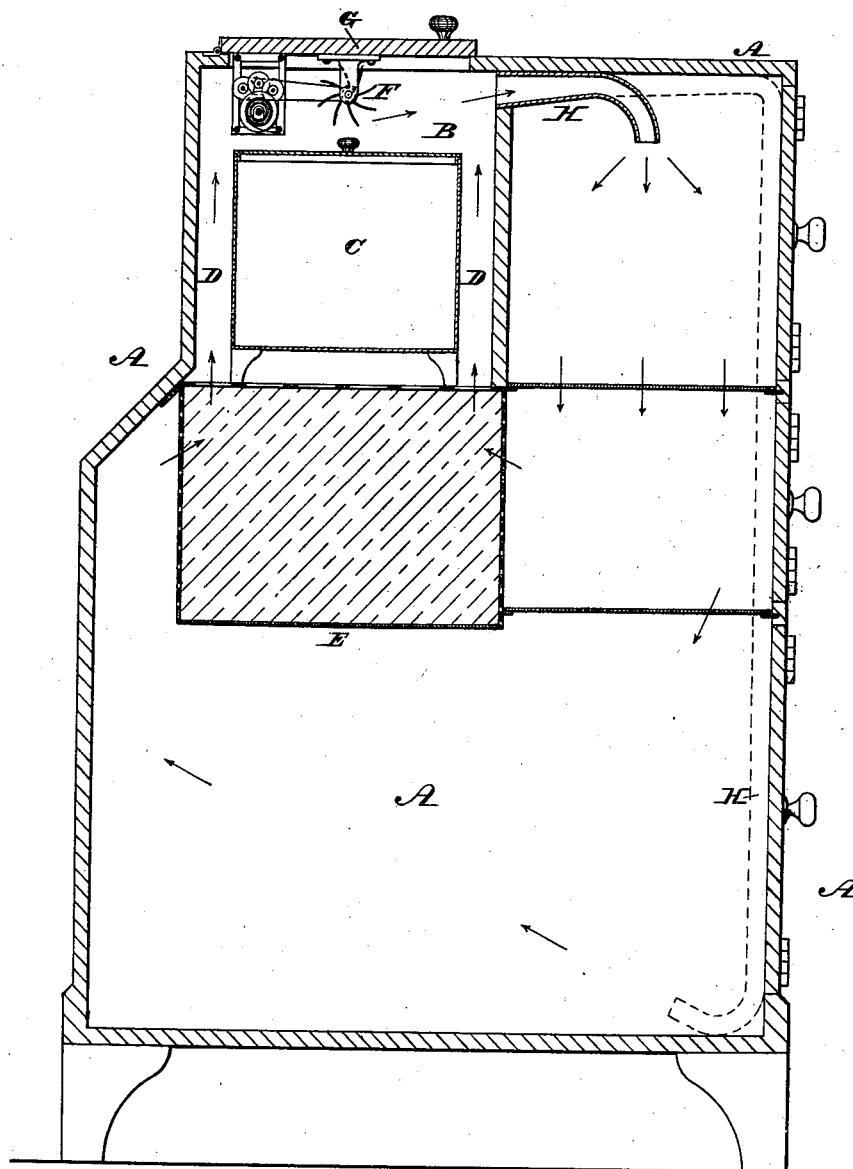


(No Model.)

J. W. EGAN.
REFRIGERATOR.

No. 348,115.

Patented Aug. 24. 1886.



WITNESSES:
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JAMES W. EGAN, OF PHILADELPHIA, PENNSYLVANIA.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 348,115, dated August 24, 1886.

Application filed July 22, 1886. Serial No. 208,731. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. EGAN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Refrigerators, which improvement is fully set forth in the following specification and accompanying drawing, in which the figure is a central vertical section of a refrigerator embodying my invention, the object whereof is to supply a refrigerator with dry purified air and circulate the same through the refrigerator, this being accomplished by means substantially as hereinafter set forth and definitely claimed.

Referring to the drawing, A represents the body of a refrigerator, which is provided with shelves or trays, doors, &c., and having a chamber, B, for an ice-chest, C, the latter being of any suitable construction, closed on all sides, and interiorly accessible by means of a lid, it being seen that the chest is somewhat smaller than the chamber B, thus leaving air-passages D around the chest, the same being cooled, owing to the ice or other frigorific medium contained in the chest C.

Supported within the body A, below the cold-air chamber B, is a box, E, containing charcoal or other material suitable for purifying air, said box being perforated, so that it forms a communication between the body A and the chamber B. In the upper part of the chamber B is a fan, F, which is operated by a suitable clock-work or other motor, the same, in the present case, being connected with the lid G, whereby the motor is readily accessible for winding and other purposes.

H represents a pipe, spout, or outlet for cold air from the chamber B into the body A,

said pipe being connected with said chamber 40 in any suitable manner.

The operation is as follows: The chest is supplied with ice and the box E with air-purifying material. The fan is set in motion and air in the chamber B driven through the 45 pipe H into and through the body A, and then forced through the box E, where it is purified, into the chamber B, where it is cooled, in which condition of purification and refrigeration it is directed into the body and again returned through the box and chamber to said 50 body, so that there is a constant circulation of pure dry cold air throughout the refrigerator.

Having thus described my invention, what I 55 claim as new, and desire to secure by Letters Patent, is—

1. A refrigerator having a body with a cold-air chamber, B, and an ice-chest, C, in said chamber, a fan, an air-purifier box, E, and a 60 cold-air outlet, H, said purifier-box E forming a communication between the body of the refrigerator and said cold-air chamber, substantially as and for the purpose set forth.

2. A refrigerator having a body with a cold-air chamber and an ice-chest therein, a fan and motor, an air-purifying box, and a cold-air outlet, said box being perforated and forming a communication between the body of the refrigerator and said cold-air chamber, the fan 70 and motor being connected with the lid of the body, substantially as and for the purpose set forth.

JAMES W. EGAN.

Witnesses:

JOHN A. WIEDERSHEIM,
JAS. F. KELLY.