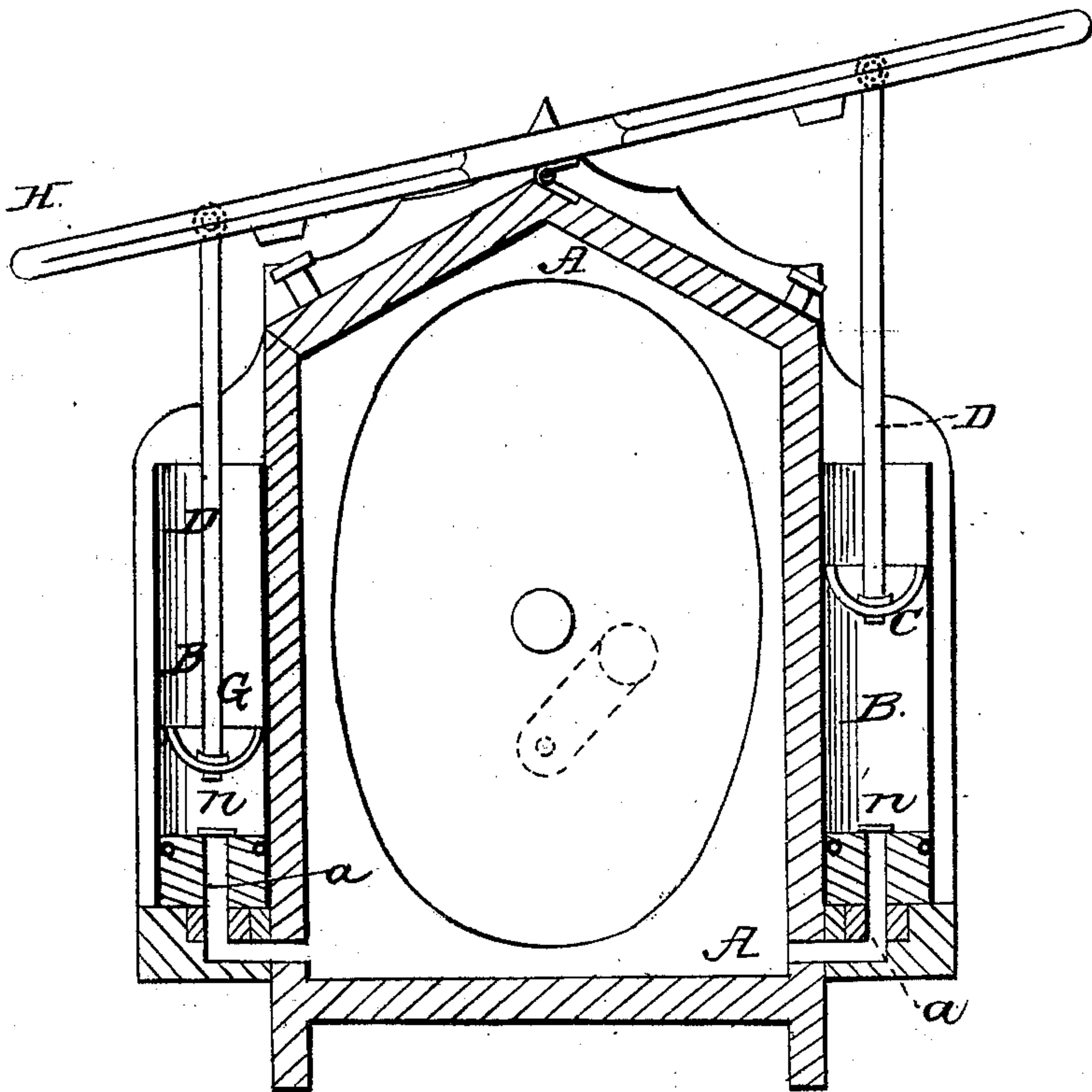


A. H. HASTINGS.

Refrigerator.

No. 34,205.

Patented Jan. 21, 1862.



Witnesses

C. M. Alexander
H. M. Dow

Inventor

A. Horace Hastings

UNITED STATES PATENT OFFICE.

A. HORACE HASTINGS, OF NEW YORK, N. Y.

IMPROVED REFRIGERATOR.

Specification forming part of Letters Patent No. 34,205, dated January 21, 1862.

To all whom it may concern:

Be it known that I, A. HORACE HASTINGS, of the State, county, and city of New York, have invented certain new and useful Improvements in Refrigerators; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

In the annexed drawing, making a part of this specification, A represents the refrigerator-case, which may be constructed in any convenient and suitable way. This case is provided with a close-fitting air-tight door, which is made in any of the known and usual ways.

B B represent two cylindrical chambers which are secured upon opposite sides of the case. These chambers connect at their bottoms with the bottom of the refrigerator-case by means of passages *a a*. The passages *a a* are closed by valves *n n*, which open outward when they move.

D D represent two piston-rods, which are provided with heads C C, in which heads are formed suitable valves to correspond with the valves *n n*. The two rods D are secured to a lever H, as is represented, by means of which lever they are operated. The fulcrum

of the lever rests upon the case A. The object of the lever is to alternately operate the rods D D, which, with their connections, serve to exhaust the air from the case A.

By exhausting and rarefying the air in the refrigerator-case I am able to reduce the temperature to such a degree that food of all kinds may be kept with great safety and certainty. It may be necessary to let in small quantities of air at times, in order to repeat the process of rarefying, and this may be done by making ventilation, which may be stopped at any time it may be desirable.

I have found that ice may be produced in this refrigerator in the course of an hour or so.

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

The within-described refrigerator as an article of manufacture, constructed, arranged, and used in the manner and for the purpose specified.

In witness that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

A. HORACE HASTINGS.

Witnesses:

DEXTER GILLMORE,
I. TRIPPE, Jr.