

N<sup>o</sup> 7062



A.D. 1914

(Under International Convention.)

Date claimed for Patent under Patents and Designs Act, 1907, being date of first Foreign Application (in Germany), } 16th Jan., 1914

Date of Application (in the United Kingdom); 20th Mar., 1914

At the expiration of twelve months from the date of the first Foreign Application, the provision of Section 91 (3) (a) of the Patents and Designs Act, 1907, as to inspection of Specification, became operative

Accepted, 17th June, 1915

#### COMPLETE SPECIFICATION.

#### Improvements in and relating to Refrigerators.

We, NÜRNBERGER METALL- & LACKIER-WAARENFABRIK, vorm. GEBRÜDER BING ACTIENGESSELLSCHAFT, of 16, Blumenstrasse, Nuremberg, in the Empire of Germany, Manufacturers, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The object of the present invention is an improvement in connection with refrigerators having plate shelves.

According to the invention we provide stamped out ridges on the inner walls of a double walled metal chamber in order to receive the plate shelves or grids.

10 We prefer to make the refrigerator and door of cylindrical curvature and to suspend the ice container freely therein so that the side walls and bottom act as cooling surfaces, but we do not claim these features *per se*.

The invention is shown by way of example in one form in the accompanying drawings, in which

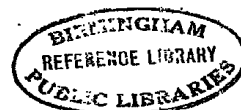
15 Figure 1 is a sectional elevation on the line A—B of Figure 2, and Figure 2 a section on the line C—D of Figure 1.

20 The refrigerator consists of the inner metallic cylinder 1 having a bottom 1<sup>a</sup> and the outer metallic cylinder 2 having a bottom 2<sup>a</sup>. The upper edges of the two cylinders 1 and 2 are soldered or otherwise secured together so that an air space is formed which is completely sealed from the outer air; this air space retards the exchange of heat between the cooling space and the atmosphere. In the example illustrated the intermediate space simply contains air but it can also be filled with any suitable insulating medium.

25 The opening for a door is formed in the side wall of the metal chamber which can be closed by the door 3 accurately adapted to the curvature of the cylinder walls 1, 2 and suspended on the hinges 4. The door 3 consists of the two walls 3<sup>a</sup> and 3<sup>b</sup> which are also sealed together and therefore contain an insulating space. The inner wall 1 and if desired, the wall 3<sup>b</sup> possess inwardly directed annular stamped out flanges or beads 5 to receive the plate shelves 6.

30 The ice container 7 is freely suspended in the upper part of the metal chamber so that its side walls and bottom serve to cool the interior of the refrigerator.

[Price 6d.]



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*Improvements in and relating to Refrigerators.*

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This suspension may be by a flange on the ice container engaging projections (not shown) on the wall of the chamber. Somewhat above the bottom of the ice container 7 there is a sieve 9 which serves directly to receive the ice.

The water produced by melting runs off through the pipe 8 which in the form shown passes through the wall of the refrigerator directly beneath the bottom of the ice container. The pipe 8 can however be led inside the refrigerator down to its bottom after which it may then emerge through the walls. About the middle of the ice container there is provided a second sieve 10 so that the upper part of the container can also be used as a cooling space for food *etcetera*. The refrigerator is closed above by a double walled lid 11 which also insulates owing to the inner space filled with air. 5 10

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. A refrigerator in which stamped-out beads or flanges are provided on the inner wall of a double-walled metal chamber in order to receive the plate shelves, substantially as described. 15

2. A refrigerator as claimed in Claim 1, having an ice container freely suspended therein, in such manner that both the side walls and the bottom act as cooling surfaces, substantially as described. 20

3. A refrigerator as claimed in Claims 1 or 2 which is made in cylindrical form and possesses a door of the same curvature, substantially as described. 20

4. The improved refrigerator substantially as described and illustrated in the accompanying drawings.

Dated this 19th day of March, 1914. 25

W. P. THOMPSON & Co.,  
6, Lord Street, Liverpool, and at Bradford and London,  
Agents for the Applicants.

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THE COMPLETE SPECIFICATION OF NÜRNBERGER METALL-UND  
LACKIERWAARENFABRIK VORM GEB. BING- AKT.-GES.

(1 SHEET)

[This Drawing is a reproduction of the Original on a reduced scale.]

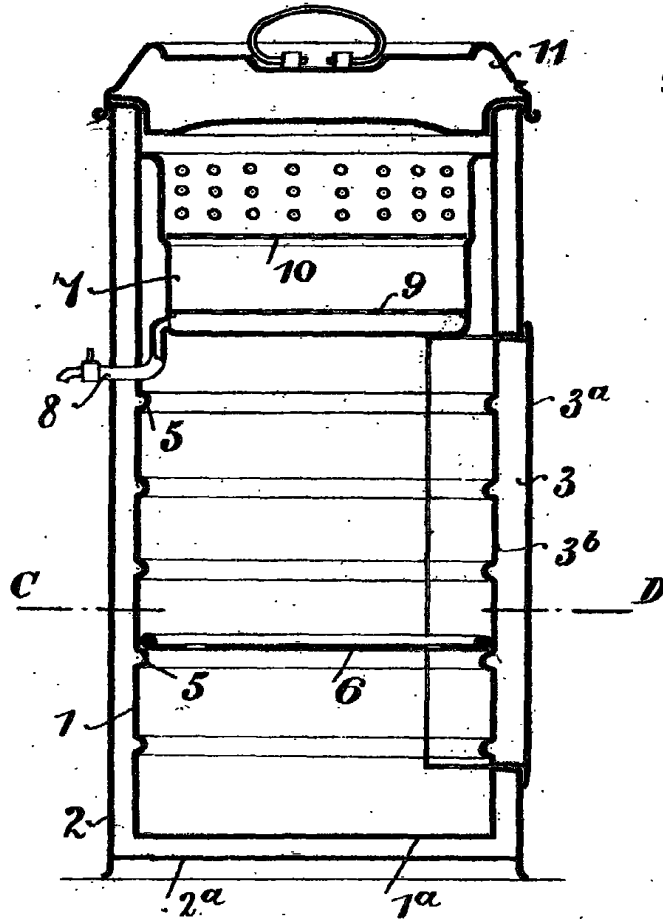


Fig. 1.

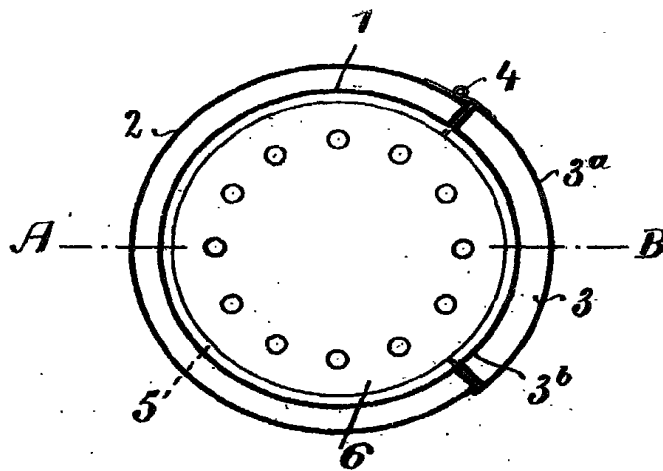


Fig. 2.

