June 5, 1928.

1,672,832

C. C. SPREEN

REFRIGERATION

Filed Jan. 7, 1927

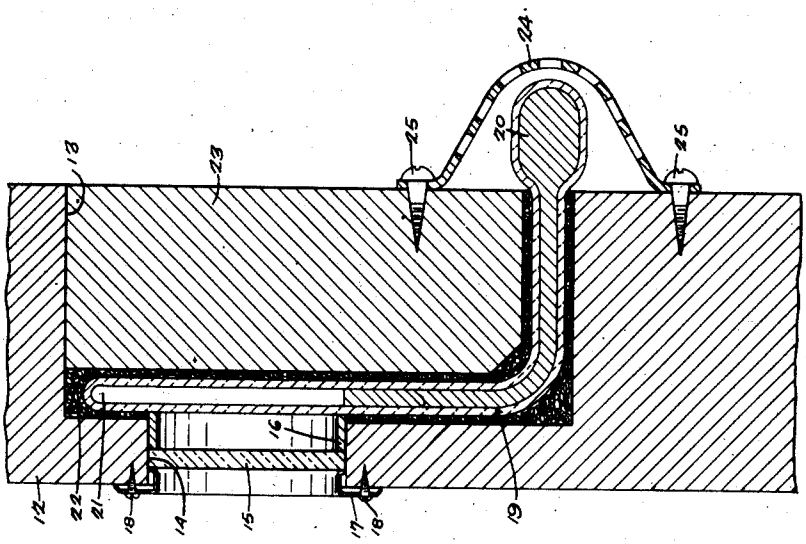


Fig. 2

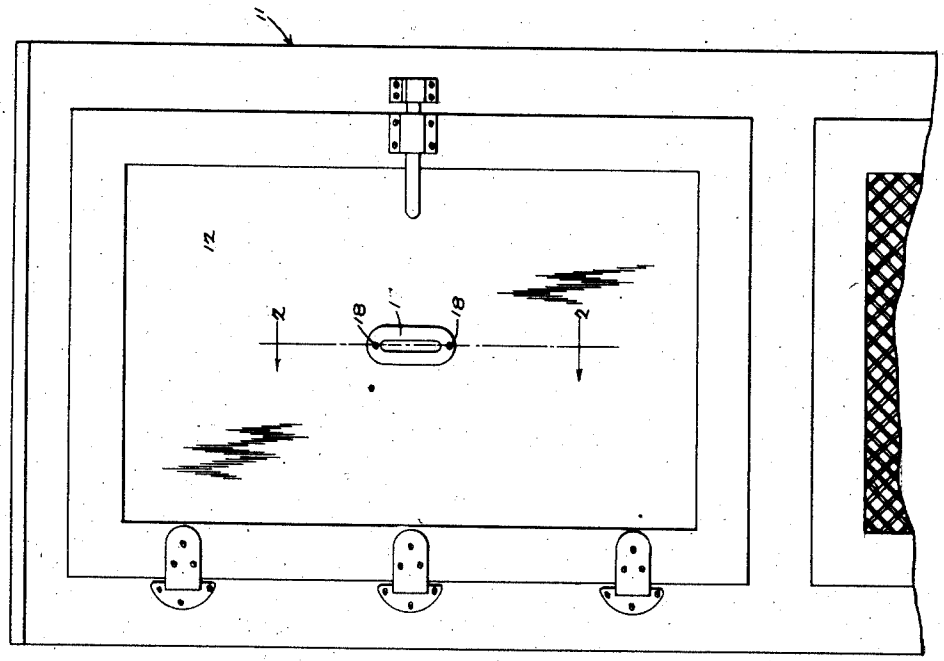


Fig. 1

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UNITED STATES PATENT OFFICE.

CHARLES C. SPREEN, OF DETROIT, MICHIGAN, ASSIGNOR TO ELECTRIC REFRIGERATION CORPORATION, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

REFRIGERATION.

Application filed January 7, 1927. Serial No. 159,622.

My invention relates to refrigeration, and particularly to domestic refrigerators, and the principal object of my invention is to provide means for indicating the temperature existing within a refrigerator of that type. In the drawings accompanying this specification and forming a part of this application I have shown, for purposes of illustration, one form which my invention may assume, and in these drawings:

Figure 1 is a front elevation of this illustrative embodiment of my invention, while Figure 2 is a section on the line 2—2 of Figure 1.

The embodiment of my invention herein shown comprises a refrigerator 11 having one wall, as the door 12, provided with a recess 13 extending into the wall from the inner face and a second recess 14 of smaller diameter extending into the wall from the outer face and abutting the inner recess to form an aperture directly through the wall. The outer end of the smaller recess is closed by a glass plate 15 held in position by an inner ring 16 and an outer ring 17, the outer ring 17 being held in position by any suitable means, such as screws 18.

A thermometer 19 is disposed within the recess 13 in such manner that the bulb 20 is located in the space enclosed by the refrigerator walls and the stem 21 traverses the recess 14 and has the greater portion of its stem surrounded by a layer of heat insulating material 22 and a filler plug 23 is located behind the thermometer stem 21 and the insulating layer 22 and serves to fill the remaining portion of the recess 13. A perforated protective shield 24 is disposed over the bulb 20 of the thermometer 19 and is held in place by any suitable means, such as the screws 25.

By this construction the temperature conditions existing within the refrigerator can be ascertained by looking through the plate 15 without the necessity of opening the refrigerator door.

From the above disclosure it will be obvious to those skilled in the art that I have provided new and improved means for indicating the temperature existing within the refrigerator with which it is combined.

At the same time it will be obvious to those skilled in the art that the embodiment of my invention herein shown may be variously changed and modified without departing from the spirit of my invention or sacrificing the advantages thereof, and it therefore will be understood that the disclosure herein is illustrated only, and that my invention is not limited thereto.

I claim:

1. In combination, a refrigerator wall having an inner recess extending into said wall from the inner face thereof and an outer recess of smaller diameter extending into said wall from the outer face thereof and abutting said inner recess, a transparent plate closing the outer end of said outer recess, a thermometer disposed in the inner recess with its stem traversing the inner end of said outer recess and its bulb extending beyond said inner face of said wall, a protective shield disposed around said bulb, and a filler plug disposed in said inner recess behind said thermometer stem.

2. In combination, a refrigerator wall having an inner recess extending into said wall from the inner face thereof and an outer recess of smaller diameter extending into said wall from the outer face thereof and abutting said inner recess, a transparent plate closing the outer end of said outer recess, a thermometer disposed in the inner recess with its stem traversing the inner end of said outer recess and its bulb extending beyond said inner face of said wall, heat insulating material surrounding the stem of said thermometer, and a filler plug disposed in said inner recess behind said thermometer stem.

In testimony whereof I hereunto affix my signature.

CHARLES C. SPREEN.