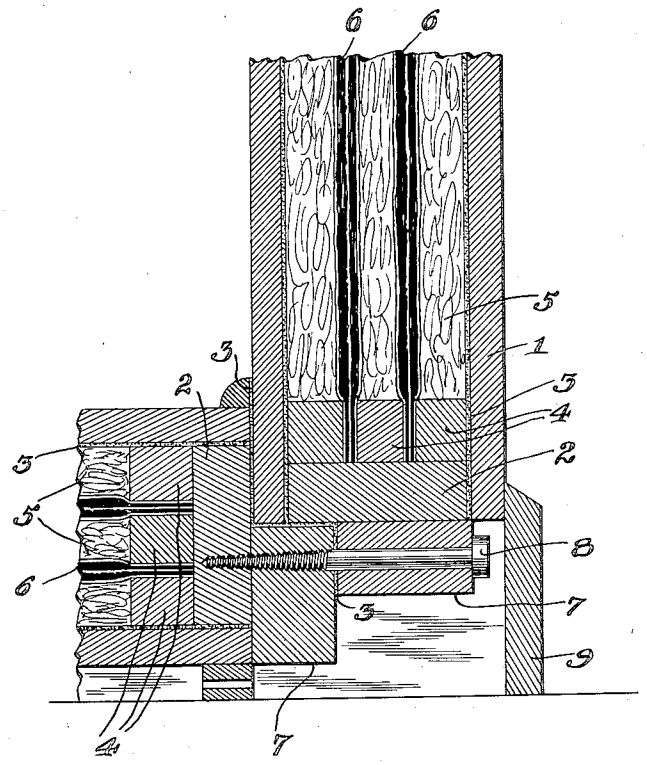
Aug. 19, 1924. 1,505,846

L. A. BANTA

REFRIGERATOR INTERLOCKING SHELL STRUCTURE

Filed Jan. 27. 1923



Inventor

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UNITED STATES PATENT OFFICE.

LEN ALBERT BANTA, OF CLEARFIELD, PENNSYLVANIA.

REFRIGERATOR INTERLOCKING SHELL STRUCTURE.

Application filed January 27, 1923. Serial No. 615,331.

To all whom it may concern:

Be it known that I, LEN ALBERT BANTA, a citizen of the United States, residing at Clearfield, in the county of Clearfield and State of Pennsylvania, have invented certain new and useful Improvements in Refrigerator Interlocking Shell Structures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in refrigerator structures and, more particularly, to refrigerators for commercial purposes such as are used by butchers and other dealers in perishable food products.

The object of the present invention is to provide an improved means for joining separable insulator panels to constitute a refrigerator room or chamber. Other objects will more fully appear in the course of the following detail description.

The invention consists in the novel construction, arrangement and combinations of parts as are hereinafter more particularly described and claimed.

One sheet of drawings accompanies this specification as part thereof in which like reference characters indicate similar parts throughout.

Figure 1 represents a vertical cross-sectional view illustrating the joining of a bottom and side panel.

In accordance with my improved system of refrigerator structure as more fully set forth in my copending applications filed simultaneously herewith, the refrigerator or cooling room is constructed with top, bottom and wall panels, each of said panels comprising parallel base members 1, spaced by marginal walls 2 and divided interiorly by fibre felt blankets 6 separating mineral wool sections 5, the marginal edges of the mineral wool portions 5 being bounded by strips 4 arranged in tiers and spaced by the fibre felt blankets and all adjacent surfaces being separated by moisture proof paper or other moisture resisting material 3.

In accordance with the present invention, the refrigerator panels or sections referred to are joined together by securing to their marginal walls 2 and externally thereof cleats 7—7 and then securing one panel so that a portion of its inner face abuts a portion of the end wall 2 on the adjacent panel, being separated therefrom by a sheet of moisture resisting material 3 as is well illustrated in the drawing. In the position indicated it will be noted that the cleats 7 also abut over the moisture resisting material which is extended around and between the cleats and between one cleat and the adjacent edge portion of the other panel. The two sections are then united by suitable screws or other fastening means 8 extending through the abutting cleats.

By reason of the structure thus described, it will be apparent that no part of the refrigerator other than a single thin strip of moisture proof material extends from the interior of the refrigerator to the exterior but that, on the other hand, all portions of the refrigerator exposed to the interior or cooled atmosphere are completely isolated by interposed independent and moisture isolated portions of the structure, thus preventing the conduction of heat through the wall of the refrigerator.

Having thus fully described my invention, I claim:

In a refrigerator a plurality of composite panels, each of said panels comprising inner and outer faces spaced by double marginal walls the inner of said marginal walls comprising a plurality of tiers corresponding with layers of non-heat-conducting material, said layers, tiers, faces and marginal walls being separated throughout with moisture proof material and said panels being secured together by cleats on the outer marginal walls and positioned so that a part of the inner face of one panel overlies a part of a marginal wall of another with water-proof material interposed between the adjacent parts thereof.

In testimony whereof I affix my signature.

LEN ALBERT BANTA.