

I. M. KIRLIN.
INSULATING PANE.
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1,370,974.

Patented Mar. 8, 1921.

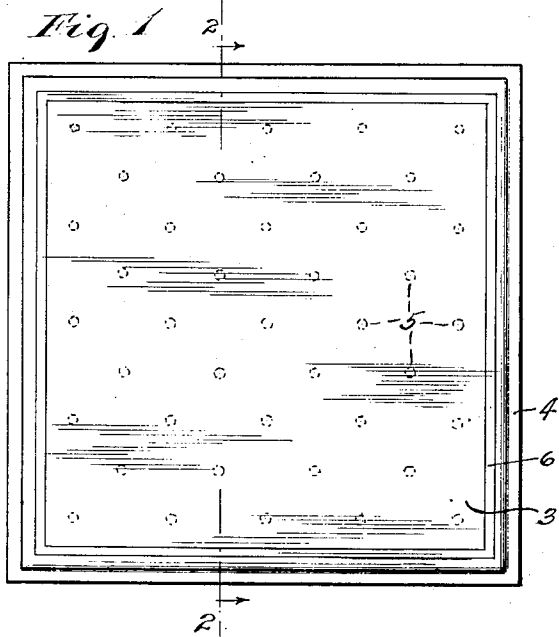
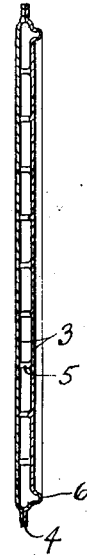


Fig. 2.



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UNITED STATES PATENT OFFICE.

IVAN M. KIRLIN, OF EVANSTON, ILLINOIS.

INSULATING-PANE.

1,370,974.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, IVAN M. KIRLIN, a citizen of the United States, residing at Evanston, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Insulating-Panes; 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.

My invention has for its primary object to provide a transparent or translucent insulating pane for use in windows, doors, refrigerated display cases, refrigerators, ovens and the like.

To the above end, generally stated, the invention consists of the novel devices and combinations of devices hereinafter described and defined in the claim.

In the accompanying drawings, which illustrate the invention, like characters indicate like parts throughout the several views.

Referring to the drawings,

Figure 1 is a plan view of a pane constructed in accordance with my invention; and

Fig. 2 is a view in section taken on the line 2—2 of Fig. 1.

The numeral 3 indicates a pair of laterally spaced plates 3, the edges of which are

brought together and connected by fusing or otherwise, as indicated at 4. These plates 3 may be made from glass, mica or other suitable transparent or translucent material, and the space therebetween may contain a vacuum, air or gas. It will, of course, be necessary to hermetically seal the joint between the edges of the plates 3, when the space between said plates contains a vacuum or gas. To prevent the plates 3 from collapsing, when a vacuum is produced therebetween, a plurality of pins or projections 5 are formed on the inner face of one of said plates and bear against the inner face of the other of said plates.

One of the plates 3 has formed at or near its edges an endless outwardly extended loop or bead 6, for the purpose of absorbing the expansion and contraction of the plates, due to widely different temperatures on opposite sides of the pane.

What I claim is:—

An insulating pane comprising a pair of flat parallel plates of transparent or translucent material united at their edges, and an endless expansion bead in the body of one of the plates.

IVAN M. KIRLIN.

Witnesses:

LILLIAN A. KIRLIN,
H. WESLEY SULZNER.