

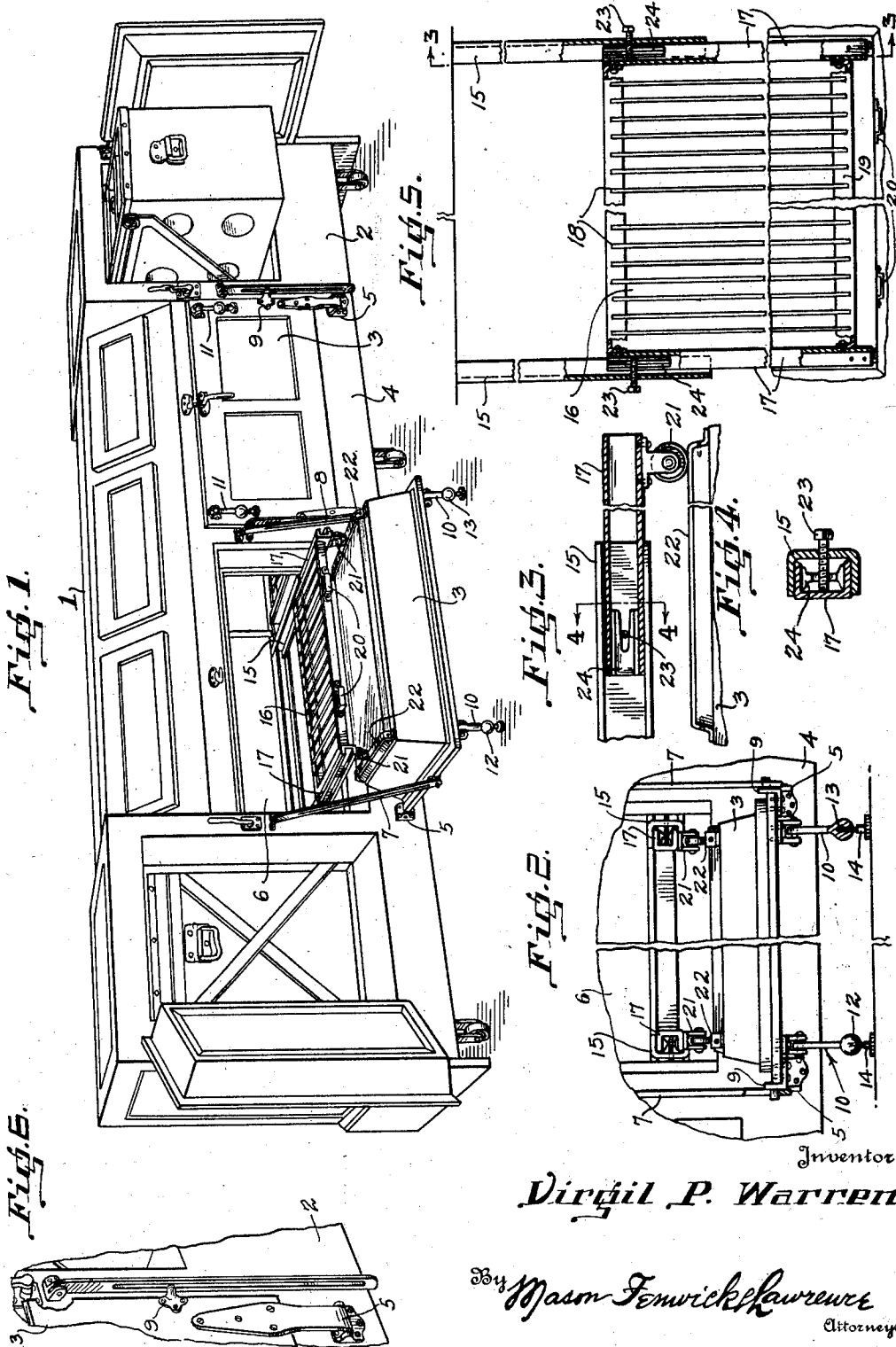
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REFRIGERATOR DISPLAY CASE CONSTRUCTION

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REFRIGERATOR-DISPLAY-CASE CONSTRUCTION

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This invention relates to show cases generally, and is particularly designed for use in show cases of the display refrigerator type.

As is well known in the art, these refrigerator display cases usually have the rear walls provided with heavy insulated doors pivoted near the base of the display case to swing about horizontal pivot axes.

The main object of the present invention is to provide these doors with means to prevent their free edges from swinging into contact with the floor or platform on which the display cases may be located.

Another object of the invention is to provide the closing ends of such doors with supports adjustable to support such ends, when the doors are opened, substantially parallel with the bottom of the display case.

A further object of the invention lies in the design of these show cases to cause the innerface of each door to occupy such position when fully opened as to serve for slidably supporting a sliding tray adapted to be slid into and out of the show case for the purpose of receiving goods to be displayed therein.

Other objects of the invention will become apparent as the detailed description thereof proceeds.

In the drawing:

Figure 1 is a perspective view of a show case embodying the present invention;

Figure 2 is a fragmentary elevation illustrating one of the show case doors in open position;

Figure 3 is a vertical section on the line 3—3 of Figure 5;

Figure 4 is a vertical section on the line 4—4 of Figure 3;

Figure 5 is a fragmentary plan view of the sliding tray construction with parts thereof broken away and shown in section; and

Figure 6 is a fragmentary perspective view of a bracket adapted to support a door directly from the rear wall of the show case.

As shown in Figure 1, the display case 1 is provided at its rear side 2 with doors 3, which gives access to the interior of the show case. Each door is of the heavy insulated type peculiar to display cases of this nature; and, as shown, are hinged to the rear

wall 4 to swing about horizontal axes on hinges 5. The hinges 5 are so located as to permit the door to swing into the aperture 6 formed in the said rear wall 2.

Each of said doors is adapted to be supported, when opened, by a pair of slotted rods, 7 and 8, which are hinged at their upper ends to the framework of the rear wall 2 and near the top of the door opening 6. Intermediate the top and bottom rails of the door and projecting from the side rails thereof a pair of stud members are secured to the door and slidably connected to the slotted rods 7 and 8 to permit the door to close freely and at the same time to hold the door horizontal when moved to open position.

While the slotted rods 7 and 8 are sufficient to hold the doors horizontal when opened it is also desirable to provide these doors with additional supports connected to their free ends and adapted to be adjusted into contact with the floor or platform supporting the show case, so that the doors when in open position may serve to support the sliding trays which move into and out of the show case. Additional supports of the type referred to are shown in Figures 1 and 2 as being adjusted into contact with the floor to support the door 3 in horizontal tray supporting position.

Each of these supports 10 is hinged to swing about a horizontal axis adjacent the striking edge of the door and each comprises a rod 11 having an enlarged end 12 provided with a screw threaded bore 13, adapted to receive the screw threaded shank of an adjustable foot 14. While one of these supports will serve very well in conjunction with the slotted rods 7 and 8 to hold each door in proper open position, it is preferable to use a pair of these supports spaced apart as desired on the striking edge of the door and adjusted so as to compensate for irregularities in the floor or platform and form a substantially solid support for the opened door.

Located within the show case are channel guideways 15, horizontally arranged to form runners for a slatted tray 16 having the sides thereof formed of channel irons 17 of a size

adapted to slide snugly but freely between the flanges of the channel guideways 15.

The tray 16 is provided with cross rails 18 and 19 suitably connected to the side rails 17 and the slats 18' extend between the rails 18 and 19. The front rail 19 is provided with handles 20 adapted for use in moving the tray 16 into and out of the display case. The outer ends of the side rail 17 are provided with castors 21 adapted to slide on wear plates 22 secured to the inner face of each door 3.

The guideways 15, the sliding tray 16, and the doors 3 are so constructed and arranged that when the door is open and properly supported on the supports 10, the tray may be drawn out on the door fully supported by the castors 21 and without binding in the channels of the guideways 15.

In order to prevent the tray 16 from being drawn out beyond the limit of the door 3, the guideways 15 and tray 16 are provided with stop mechanism shown fully in Figures 3 and 4. Each guideway 15 has a screw threaded bolt 23 threaded thereinto with its end closely adjacent to the inner face of a rail 17, and the rail 17 near its inner end has fixed thereto a cam-slot member 24 adapted to contact, when the tray 16 is drawn out on the door 3, with the bolt 23 to limit the outer movement of the tray.

I claim:

1. A casing having an opening in a side thereof, channel guideways horizontally supported parallel to each other in said casing, a tray slidable in the channels of said channel guideways through said opening, a door for said opening hinged to said casing to swing about a horizontal axis, means for supporting said door, when opened, parallel to said guideways, and means for slidably supporting the outer end only of said tray on the inner face of said door when in open position.

2. A casing having an opening in a side thereof, channel guideways horizontally supported parallel to each other in said casing, a tray slidable in the channels of said channel guideways through said opening, a door for said opening hinged to said casing to swing about a horizontal axis, means for supporting said door, when opened, parallel to said guideways, means for slidably connecting the outer end of said tray to the inner face of said door, and cooperative means on said tray and guideways for limiting the outward movement of said tray relative to said door.

In testimony whereof I affix my signature.

VIRGIL P. WARREN.