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(54) **A display cabinet having glazed surfaces.**

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Description

This invention relates to a display cabinet having glazed surfaces, each including at least two glass sheets set parallel apart which overlap each other into a sandwich-type structure and is set peripherally in a bearing or capping frame.

Widely used on refrigerated display cabinets are glazed of the above-noted kind to provide an unobstructed view from outside of the goods on display, while ensuring that the cabinet interior is adequately insulated thermally by an insulating chamber formed between the overlapping sheets in the sandwich structure.

Such glass sheet sandwich structures, as employed both in the construction of doors and clear walls for the cabinets are traditionally set in and secured to a peripheral capping frame, usually made of anodized aluminum, which functions both as a support and a trimming member for the sheet sandwich structure.

However, such frames confer on the glazed surfaces, and hence, the display cabinet per se, a massive and heavy-looking appearance which is sometimes in harsh contrast with the rest of the fittings of a selling space such as a store or supermarket.

It is the object of this invention to provide a display cabinet having glazed surfaces which are constructed to overcome the above-noted drawback.

This object is achieved by a display cabinet as indicated being characterized in that one of the outer glass sheets in slid sandwich is extended to overlap said frame.

Advantageously, said outer sheet is made opaque across the region thereof overlapping the frame.

Particular embodiments of the invention are defined in claims 3 to 6.

The advantages of this invention will be more clearly understood from the following detailed description of a preferred, though not exclusive, embodiment thereof, to be taken by way of illustration and not of limitation with reference to the accompanying drawings, where:

Figure 1 shows a glazed door for a refrigerated cabinet embodying this invention; and

Figure 2 is a fragmentary cross-sectional view of the door shown in Figure 1.

Generally denoted by 1 in Figure 1 is a glazed door for a refrigerated display cabinet, not shown per se.

The door 1 comprises a bearing or capping frame 2, from a major side whereof, two pegs 3, 4 extend in continuation of said major side to provide pintles whereby the door 1 can be assembled to the display cabinet body.

The bearing or capping frame 2 is obtained from a metal profile substantially "C" shaped (fig. 2) defining a back 5 and two substantially parallel and concurrent flanges 6, 7.

The back 5 has, on its side toward the inner flange 6 of the frame 2, a recessed portion 9 defining a tooth-like profile 10.

Formed on the free ends of the two flanges 6, 7 are two corresponding seats arranged to face each other and to hold, in shape interfit relationship, a plate-like profile member 11 carrying a gasket 12.

The door 1 further comprises a sandwich structure of three shatterproof glass sheets, generally indicated at 15, which includes first and second outer sheets 16, 17 and an inner or core sheet 18 therebetween.

Interposed peripherally between the sheets 16-18 are spacers 19 which hold said sheets parallel to one another and a distance apart from one another, while additionally sealing off the spaces therebetween so as to define two sealed chambers 20, 21.

The outer sheet 16 of the door 1 is extended to overlap the frame 2 and is cemented to the back 5 by means of a silicone resin of a kind known per se. This same resin, denoted by 22, is also used to fill the interspace formed at the recessed portion 9 and between the sandwich sheet structure 15 and the inner flange 6 of the frame 2.

Thus, the sandwich sheet structure 15 is securely cemented to the frame 2 across two contiguous walls of the latter.

In the area of overlap on the frame 2, the sheet 16 as a region 23 which is made opaque, as by silk-screen application thereon of a grid-like pattern which extends from the free edge of the sheet 16 to the area occupied by the spacers 19, thereby masking off the spacers and frame and conferring on the glazed surface an unhampered and attractive appearance.

Alternatively, the region 23 may be made opaque by means of a paint effective to mask off the underlying region.

This structure enables the above-noted advantage to be obtained for a manufacturing cost which is substantially comparable with that of traditional glazed surfaces with the outer frame in full view.

Claims

1. A display cabinet having glazed surfaces, each including at least two glass sheets (16-18) set parallel apart which overlap each other into a sandwich-type structure (15) and is set peripherally in a bearing or capping frame (2), characterized in that one of the outer glass sheets (16) in said sandwich (15) is extended to overlap said frame (2).

2. A cabinet according to Claim 1, characterized in that said outer sheet (16) is made opaque across the region (23) thereof overlapping the frame (2).

3. A cabinet according to Claim 2, characterized in that the region (23) made opaque of said outer sheet (16) is formed by silk-screening application of a grid-like pattern thereon.

4. A cabinet according to Claim 2, characterized in that the region (23) made opaque of said outer sheet (16) is formed by application of a paint.

5. A cabinet according to one or more of the preceding claims, characterized in that said outer sheet (16) is cemented to said frame (2) at the overlap region.

6. A cabinet according to Claim 5, characterized in that said sandwich sheet structure (15) is cemented across at least two contiguous walls of said frame (2).

Patentansprüche

1. Ausstellungsschrank mit verglasten Flächen, von denen jede wenigstens zwei Glasscheiben (16 bis 18) umfaßt, die sich im Abstand voneinander parallel erstrecken und einander zu einem sandwichartigen Aufbau (15) überlappen und die an ihrem Umfang von einem Trag- oder Abdeckrahmen (2) umgeben sind,
dadurch **gekennzeichnet,** daß sich eine der äußeren Glasscheiben (16) bei dem Sandwichaufbau (15) sich über den Rahmen (2) hinaus erstreckt und diesen überlappt.

2. Ausstellungsschrank nach Anspruch 1, dadurch gekennzeichnet, daß die äußere Scheibe (16) in einem Bereich (23) undurchsichtig ist, in dem sie den Rahmen (2) überlappt.

3. Ausstellungsschrank nach Anspruch 2, dadurch gekennzeichnet, daß der undurchsichtige Bereich der Scheibe (16) ein im Siebdruckverfahren hergestelltes, gitterähnliches Muster trägt.

4. Ausstellungsschrank nach Anspruch 2, dadurch gekennzeichnet, daß der undurchsichtige Bereich (23) der äußeren Scheibe (16) durch Farbeinwirkung hergestellt worden ist.

5. Ausstellungsschrank nach einem oder mehreren der vorangegangenen Ansprüche, dadurch gekennzeichnet, daß die äußere Scheibe (16) im Überlappungsbereich an den Rahmen (2) angeklebt ist.

6. Ausstellungsschrank nach Anspruch 5, dadurch gekennzeichnet, daß der Scheiben-Sandwichaufbau (15) an wenigstens zwei benachbarten Wänden des Rahmens (2) verklebt ist.

Revendications

1. Vitrine de présentation comportant des surfaces vitrées comprenant chacune au moins deux feuilles de verre (16-18) disposées parallèlement à distance l'une de l'autre, qui se recouvrent mutuellement en une structure de type sandwich (15) et qui est placée au niveau de sa périphérie dans un cadre de support ou de recouvrement (2), caractérisée en ce que l'une des feuilles de verres externes (16) dudit sandwich (15) est prolongée de manière à recouvrir ledit cadre (2).

2. Vitrine selon la revendication 1, caractérisée en ce que ladite feuille externe (16) est rendue opaque dans sa région (23) qui recouvre le cadre (2).

3. Vitrine selon la revendication 2, caractérisée en ce que la région (23) rendue opaque de ladite feuille externe (16) est formée par application par sérigraphie d'un motif en forme de grille sur celle-ci.

4. Vitrine selon la revendication 2, caractérisée en ce que la région (23) rendue opaque de ladite feuille externe (16) est formée par application d'une peinture.

5. Vitrine selon une ou plusieurs des revendications précédentes, caractérisée en ce que ladite feuille externe (16) est scellée audit cadre (2) au niveau de la région de recouvrement.

6. Vitrine selon la revendication 5, caractérisée en ce que ladite structure de feuilles en sandwich (15) est scellée au niveau d'au moins deux parois contiguës dudit cadre (2).

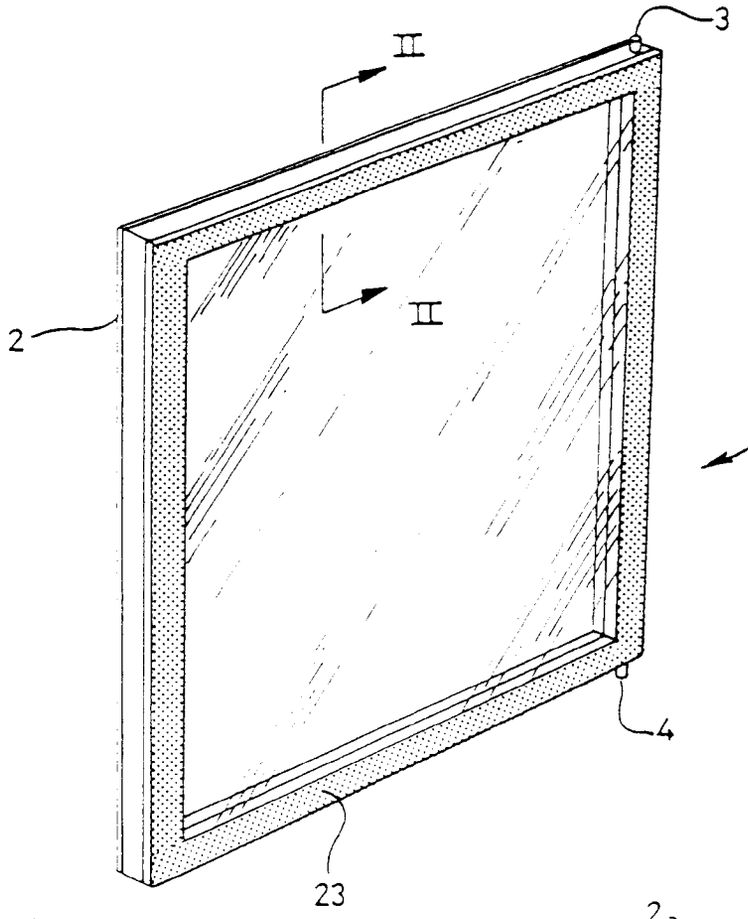


Fig. 1

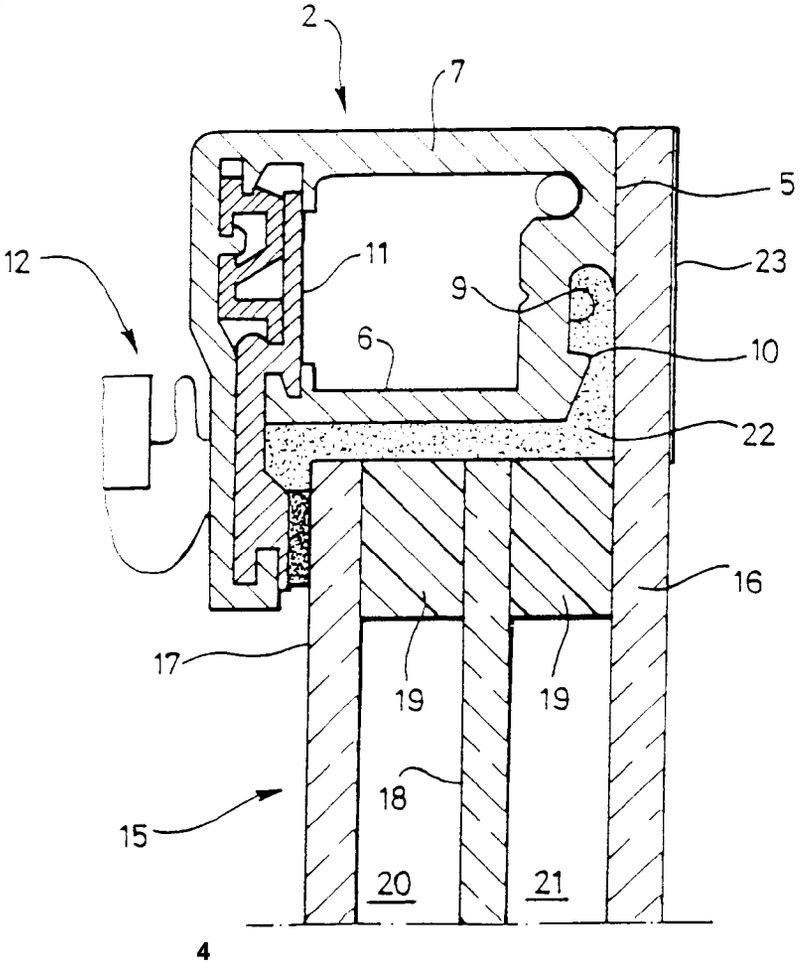


Fig. 2