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J. FUSSELMAN

2,672,735

CONDENSATION PREVENTING MEANS FOR DISPLAY CASES

Filed Oct. 8, 1951

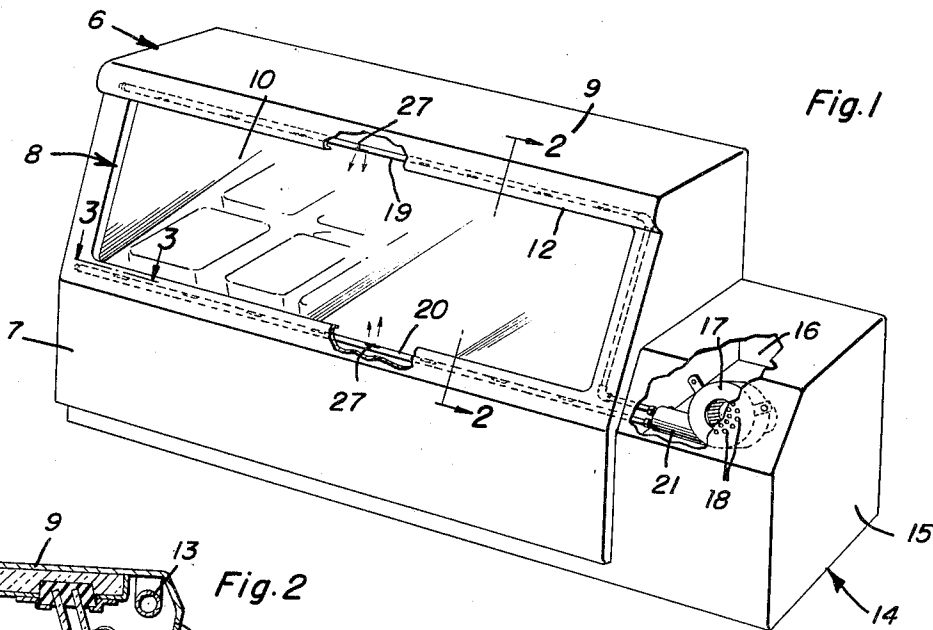


Fig. 1

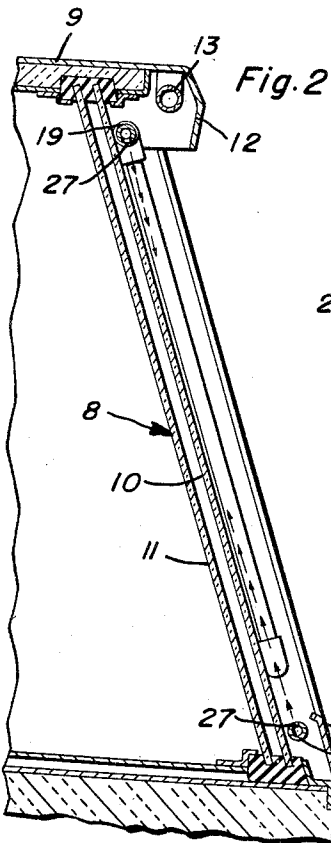


Fig. 2

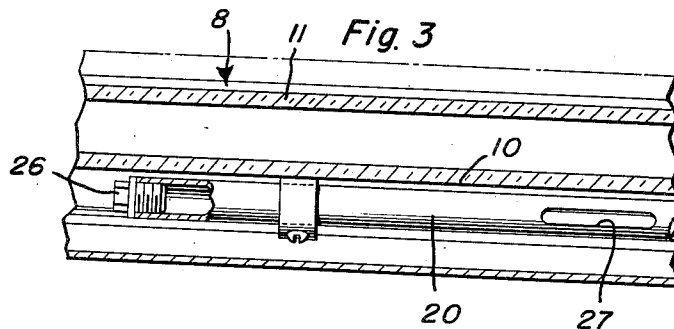


Fig. 3

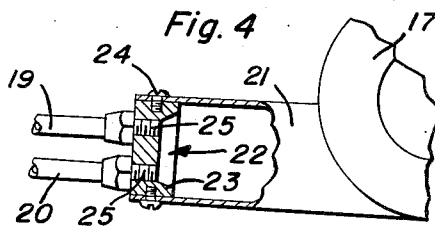


Fig. 4

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2,672,735

CONDENSATION PREVENTING MEANS FOR
DISPLAY CASES

James Fusselman, deceased, late of Tampa, Fla.,
by Forrest O. Hobbs, administrator, Tampa,
Fla., assignor of two-thirds to Harriet V. Jones
and one-third to Henry O. Wilson, Tampa, Fla.

Application October 8, 1951, Serial No. 250,286

1 Claim. (Cl. 62—39.5)

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The present invention relates to new and useful improvements in refrigerated cases of the type in wide-spread use in stores and has for its primary object to provide, in a manner as herein-after set forth, a device of this character comprising novel means for preventing moisture in the surrounding air from condensing on the usual window thereof.

Other objects of the invention are to provide a moisture condensation preventing means of the character described which will be comparatively simple in construction, durable, compact and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a perspective view of a refrigerated display case equipped with the present invention;

Figure 2 is a vertical sectional view, taken substantially on the line 2—2 of Figure 1;

Figure 3 is a fragmentary view in horizontal section, taken substantially on the line 3—3 of Figure 1; and

Figure 4 is a detail view principally in vertical longitudinal section, showing the connection between the blower and the air pipes or conduits.

Referring now to the drawing in detail, it will be seen that reference numeral 6 designates generally a refrigerated display case comprising a cabinet 7 having a window 8 in the front thereof, said window including spaced glasses 10, 11, etc., as usual. The top 9 of the cabinet 7 includes a forward extension which is formed to provide a shade or shield 12 for one or more fluorescent lamps 13.

A mechanical refrigerating unit 14 is provided at one end of the cabinet 7, said unit including a housing 15 having formed in its upper portion a chamber or compartment 16 for the reception of an electric motor driven blower 17. Suitable air intake openings 18 are provided for the compartment 16.

Extending horizontally adjacent the upper and lower portions of the outer glass 10 of the window 8 and in front thereof are upper and lower air distributing pipes 19 and 20, respectively. The air pipes 19 and 20 are connected at one end to the outlet 21 of the blower 17 by a coupling 22. In the embodiment shown, and as illustrated to advantage in Figure 4 of the drawing, the coupling 22 comprises a plug 23 which is secured in the blower outlet 21 by screws 24. The plug 23 has formed therein threaded openings which accommodate the pipes 19 and 20, as at 25.

The other ends of the pipes 19 and 20 are closed

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by plugs 26 (see Figure 3). At spaced points the pipes 19 and 20 have formed therein longitudinal slots constituting air discharge ports 27. The ports 27 are arranged to direct streams of air over the outer surface of the front glass 10 of the window 8.

It is believed that the operation of the invention will be readily apparent from a consideration of the foregoing. Briefly, the blower 17 draws air from the room or atmosphere into the compartment 16 through the intake openings 18. The compartment 16 is warmed by heat generated in the unit 14, thus raising the temperature of the air in said compartment. The warmed air is driven by the blower 17 through the pipes 19 and 20 and is discharged in streams over the outer surface of the front glass 10 of the window 8 in a manner to prevent moisture from condensing thereon. The lamp shade 12 conceals the upper air pipe 19. The shield 28 on the cabinet 7 substantially conceals the lower air pipe 20.

It is believed that the many advantages of a refrigerated display case constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention.

Having described the invention what is claimed as new is:

In combination, a refrigerated display case including a window, a mechanical refrigerating unit comprising a housing including a chamber in its upper portion adapted to be warmed by the unit, said chamber being out of communication with said housing and having air intake openings therein, a power driven blower operable in the chamber and comprising a discharge nozzle, pipes mounted on the case and having openings therein for directing air against the window, and means connecting said pipes at one end to the blower nozzle for receiving air therefrom, said means including a plug mounted in the nozzle and having threaded openings, said pipes comprising threaded end portions screwed into the last named openings, and screws securing said plug in said nozzle.

FORREST O. HOBBS,
Administrator of the estate of James Fusselman,
deceased.

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