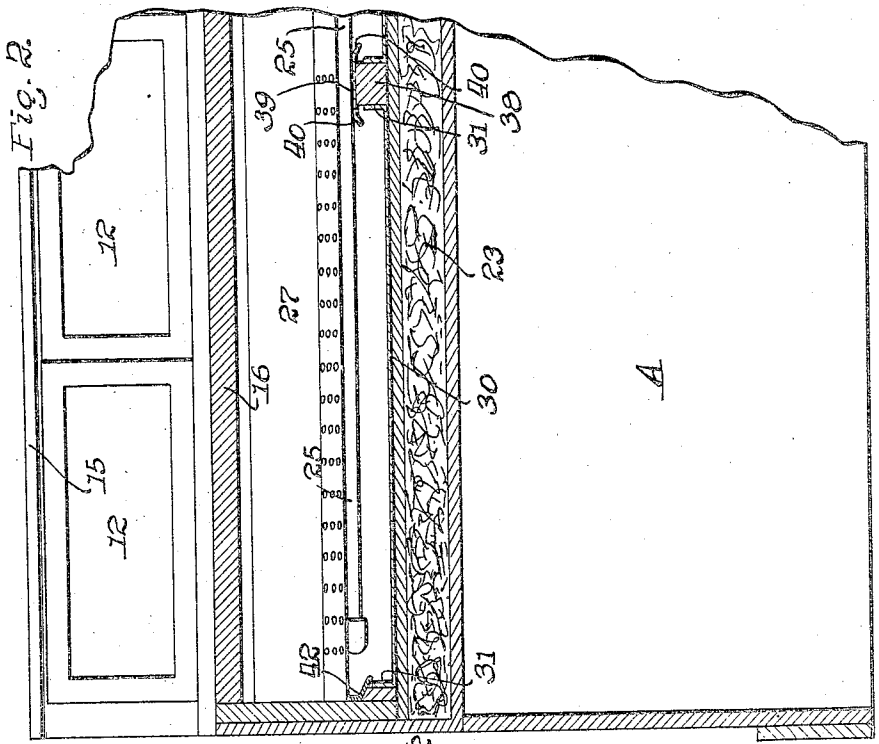
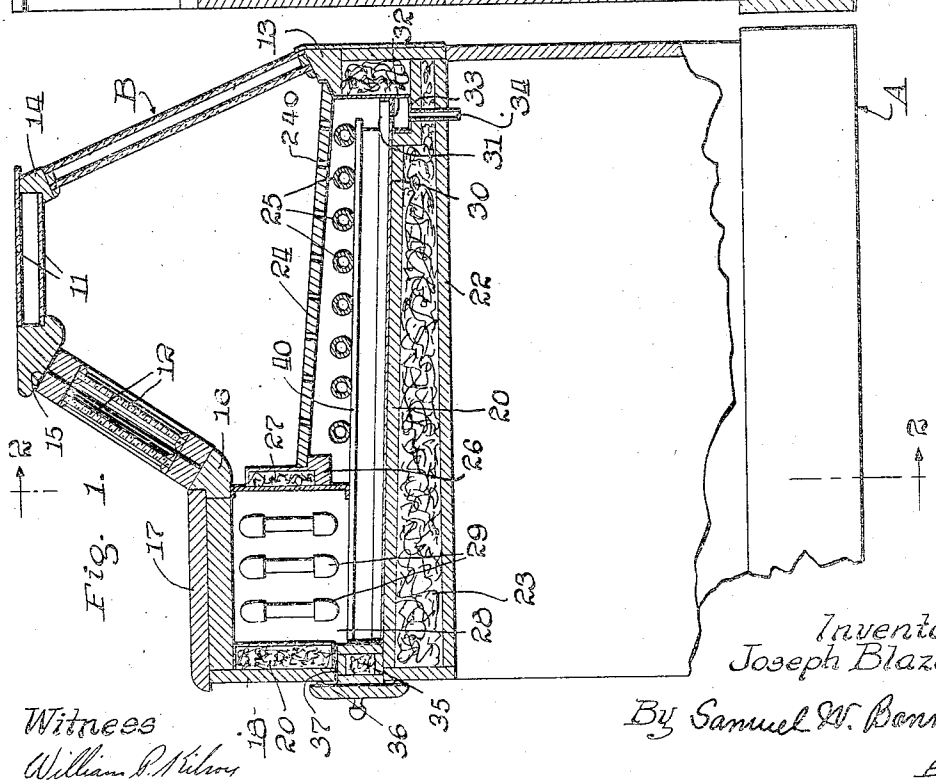
May 19, 1931. J. BLAZEK 1,805,563

REFRIGERATED DISPLAY COUNTER

Filed May 25, 1928 2 Sheets-Sheet 1





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Fig. 3.

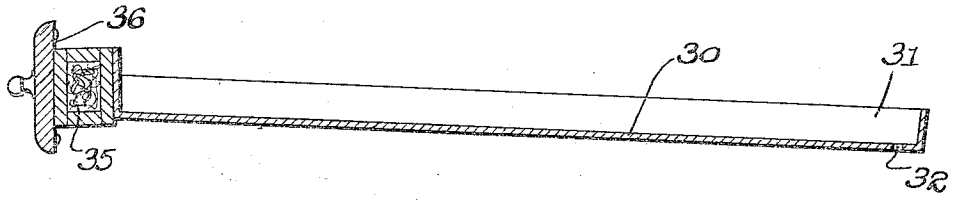
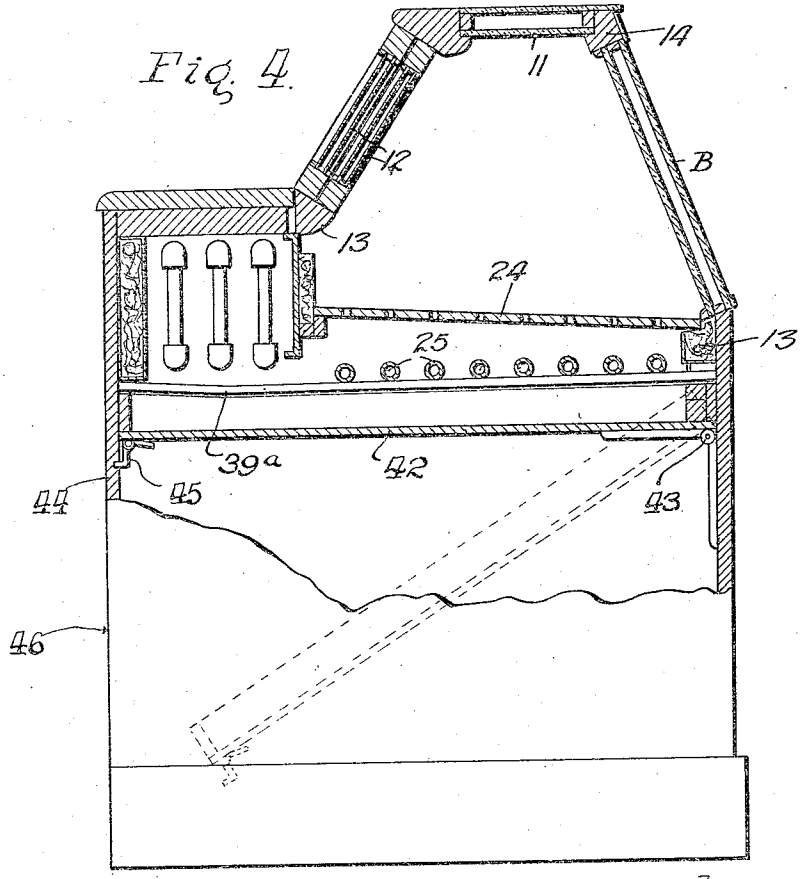


Fig. 4.



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REFRIGERATED DISPLAY COUNTER

Application filed May 25, 1928. Serial No. 280,478.

This invention relates to an improvement in refrigerated display counters designed to visibly store perishable articles, such as vegetables and cut meats on display in markets, delicatessen stores and the like, and relates to that type of display counters which preferably employ brine coils located below the display compartment for the purpose of cooling the same.

In counters of this type, it frequently happens that particles of meat or other articles on display, or of dirt or refuse, fall down through the slatted bottom of the display space onto and through the coils below, where they lodge, and, the coils being difficult of access, these refuse particles tend to decay and cause unpleasant odors, thereby rendering the counter unsanitary.

The object of the present invention is to provide an arrangement whereby such refuse particles may be readily removed from between the coils or from the space below, and which permits access to be had to the coils for the purpose of cleaning the same from time to time as occasion may require.

Further objects of the invention will appear from the detailed description thereof, in conjunction with the accompanying drawings, wherein—

Figure 1 is a cross sectional view of a display counter embodying the present invention;

Fig. 2 is a longitudinal sectional elevation on line 2—2 of Figure 1, looking in the direction of the arrows;

Fig. 3 is a sectional detail showing one of the removable drawer pans located below the coils; and

Fig. 4 is a cross sectional elevation showing a modified arrangement.

In the embodiment of the invention of Figs. 1, 2 and 3, a display counter is shown, which comprises a lower section A and an upper section B, the latter of which constitutes the display portion of the counter.

The display section comprises single or double glass front walls 10, single or double or triple glass top walls 11, and sliding rear doors 12, suitably arranged to afford access to the interior of the display compartment.

The front walls 10 stand in oblique backwardly sloping relation to the front wall of the lower section, and the sliding doors 12 stand in oblique forwardly sloping relation, which gives to the upper portion of the counter the cross sectional configuration of a frustrum, which is the usual construction in counters of this character.

The lower edges of the front walls 10 are socketed in a lower front rail 13, and the upper edges are likewise socketed in an upper front rail 14, which also supports the front edges of the glass top walls 11, the rear edges of the top walls being socketed in a rear upper rail 15, which affords a mounting for the upper edges of the sliding doors, the lower edges of which are mounted upon a lower rear rail 16.

Behind and below the sliding doors a rear top wall 17 is provided which fits upon the upper edge of the rear wall 18, which completes the outer structure of the counter. The lower portion of the counter is without a rear wall, being open from the rear for storage purposes.

As is customary in counters of this character, the front and rear walls are insulated by layers of suitable packing or filler 20. The above description applies equally to the modified counter of Fig. 4.

The upper display portion of the counter of Figs. 1, 2 and 3 is divided from the lower portion thereof by an upper forwardly sloping partition wall 21 and a spaced lower partition wall 22, between which walls is located a suitable packing 23 for purposes of insulation.

The display compartment is provided with a removable slatted or perforated floor partition or shelving 24 having perforations or slots indicated at 240, and being situated immediately above the brine coils 25, the coil sections being separated from one another sufficiently to permit cleaning out of the coils as occasion may require.

The slatted or perforated floor or shelving 24 is supported at its forward edge on the lower front rail 13, and at its rear edge on a ledge or shoulder 26 formed along the lower edge of a longitudinally extending par-

tition wall 27 which lies immediately beneath the lower rear rail 16 and partitions off the display space which is provided in the front portion of the counter from a bunker 28 in the rear portion thereof, which bunker affords a housing for additional coils 29 which co-operate with the coils 25 in cooling the display portion of the counter.

In order to afford means for the retention and ready removal of food particles which may fall down through the coils, one or more sliding drawer pans 30 are provided, and each of these drawer pans is slidably supported upon the upper surface of the sloping partition wall 20. The drawer pans, collectively, extend from end to end of the counter, and constitute in conjunction a flooring immediately below the cooling coils, the sections of which flooring are individually removable as drawers for the purpose of removing any accumulation of scraps which may have fallen down between the coils.

Each of the drawer pans 30 is provided with a rim or flange around its margin, and near its forward edge each drawer pan is provided with a drain port 32 which registers with a drain trough 33 extending along the inner face of the lower front rail 20 from end to end of the counter, and constitutes a common drain trough for all of the drawer sections. A pipe 34 leads from the trough for discharging any accumulation of moisture.

Each drawer pan section at its rear edge is secured to an insulated closing strip 35 provided with a rear facing panel 36. Each closing strip fits into a rectangular opening 37 in the rear wall, and the edges of the panel 36 are extended to abut against the margins around said opening, so that, when the drawer pan is shoved forward as in Fig. 1, the closing strip will fit snugly into the opening and seal the opening, and thereby maintain the installation at this point.

It is ordinarily the practice to make display counters of the present type of such length that a single drawer pan would be inconvenient to manipulate, and for this reason, as shown, a group of such drawer pans is provided. Between each drawer pan is located a fore and aft partition rail 38 which divides the structure into drawer compartments and enables the drawer sections to be individually removed and restored as occasion may require.

In order to shed any moisture or scraps which may fall upon the partition rails, each of the rails is roofed over by a metallic arch strip 39, the edges 40 of which extend over the side margins of the adjoining drawer pans and serve to direct scraps or falling particles into the drawer pans, and in like manner the outer rims of the drawer pans are protected by strips 41 similarly positioned.

In the modification shown in Fig. 4, in place of the drawer pans heretofore described, a hinged pan 42 is provided which is secured at its forward lower edge by means of a hinge 43 to the adjacent front wall of the counter. The free rear edge of the hinged pan, when elevated, rests against the rear wall 44 and is held in elevated position by suitable means, such as a hook and eye 45, and when elevated the hinged pan subserves the same function as that subserved by the drawer pan or pans previously described.

When lowered for cleaning, the hinged pan swings down into the position indicated in dotted lines, in which position it is readily accessible from the rear, the lower portion of the counter being open at the point 46 to permit access to the storage space on the interior.

Where several swinging drawer pans are employed, the adjacent margins of the drawers are protected by arch strips 39ª similar in all respects to the arch strips 39 previously described; and in other respects the arrangement is similar to that previously set forth in detail.

In use, the perishable articles, such as meats and vegetables, will be placed on display in pans or trays supported upon the slatted floor 24 of the display space. Any scraps or refuse which may fall through the slatted floor and through the spaces between the coils will be caught within the drawer pan or pans below, and from time to time the pans, which are preferably of enameled metal, can be removed or swung down, as the case may be, and cleaned without difficulty.

The slatted floor 24 is preferably removable, which affords ready access to the coils beneath, and the coils can be easily cleaned or scrubbed, and any accumulation of scraps or refuse forced down into the pans below, which permits the counter to be maintained at all times in a clean and sanitary condition, which is, of course, highly important in the safe and attractive display of food products.

Although the invention has been described with particular detail, it is obvious that the structure of the counter may be changed or modified in various ways without departing from the spirit of the invention.

I claim:

1. In a display counter, the combination of a display compartment provided with an apertured floor, cooling coils located below the apertured floor, the coil sections being in spaced relation to one another, and a removable drawer pan located below the cooling coils and positioned to catch and retain scraps of material falling between the coils, said drawer pan being removable through an opening at the rear of the counter.

2. In a display counter, the combination of a display compartment having a removable apertured floor, a plurality of exposed coil sections lying in a substantially horizontal plane in spaced relation to one another be-

low the floor, and a plurality of drawer-like pans located below the plane of the coils and positioned to catch and hold scraps of material falling between the coil sections, the drawer-like pans being individually removable each through an opening in the wall of the counter.

3. In a display counter, the combination of a display compartment having a removable apertured floor, a plurality of coil sections in spaced relation to one another below the floor, and a plurality of drawer-like pans located below the coils and positioned to catch and hold scraps of material falling between the coils, the drawer-like pans being individually removable each through an opening in the rear wall of the counter, and each of the drawer-like pans having on its rear edge a closing strip adapted to fit into and seal the opening when the drawer is closed.

4. In a display counter, the combination of a display compartment having a removable apertured floor, a plurality of coil sections in spaced relation to one another below the floor, and a plurality of drawer-like pans located below the coils and positioned to catch and hold scraps of material falling between the coils, the drawer-like pans being individually removable each through an opening in the rear wall of the counter, and each of the drawer-like pans having on its rear edge a closing strip adapted to fit into and seal the opening when the drawer is closed, the drawers being arranged to occupy a sloping position and each of the drawers at its lowermost edge being provided with a drain port, and a drain trough located below and common to all of said drain ports.

In witness that I claim the foregoing I have hereunto subscribed my name this 23rd day of May, 1928.

JOSEPH BLAZEK.