

May 21, 1935.

S. G. HOUSE ET AL

2,002,061

COMBINED REFRIGERATING AND ADVERTISING DISPLAY DEVICE

Filed Sept. 20, 1933

2 Sheets-Sheet 1

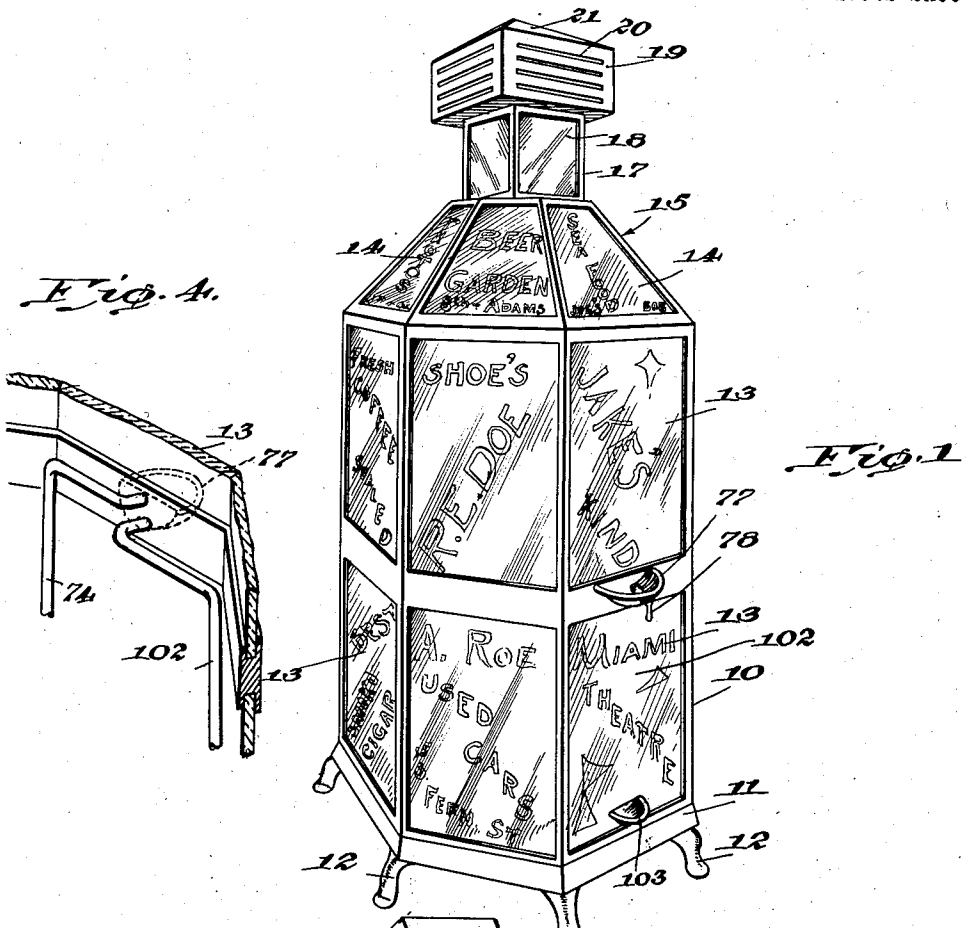


Fig. 4.

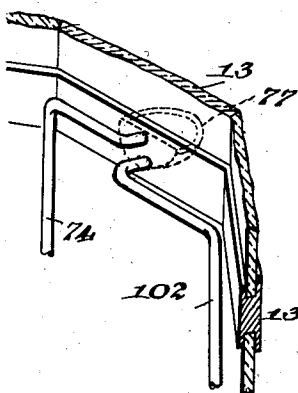
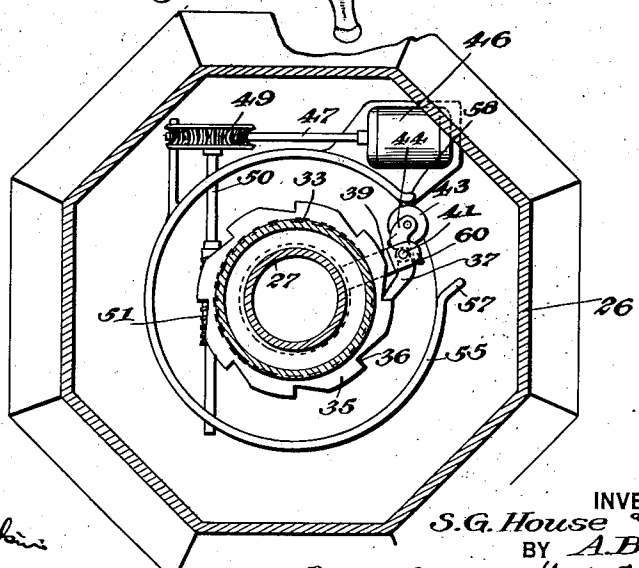


Fig. 1.

Fig. 2.



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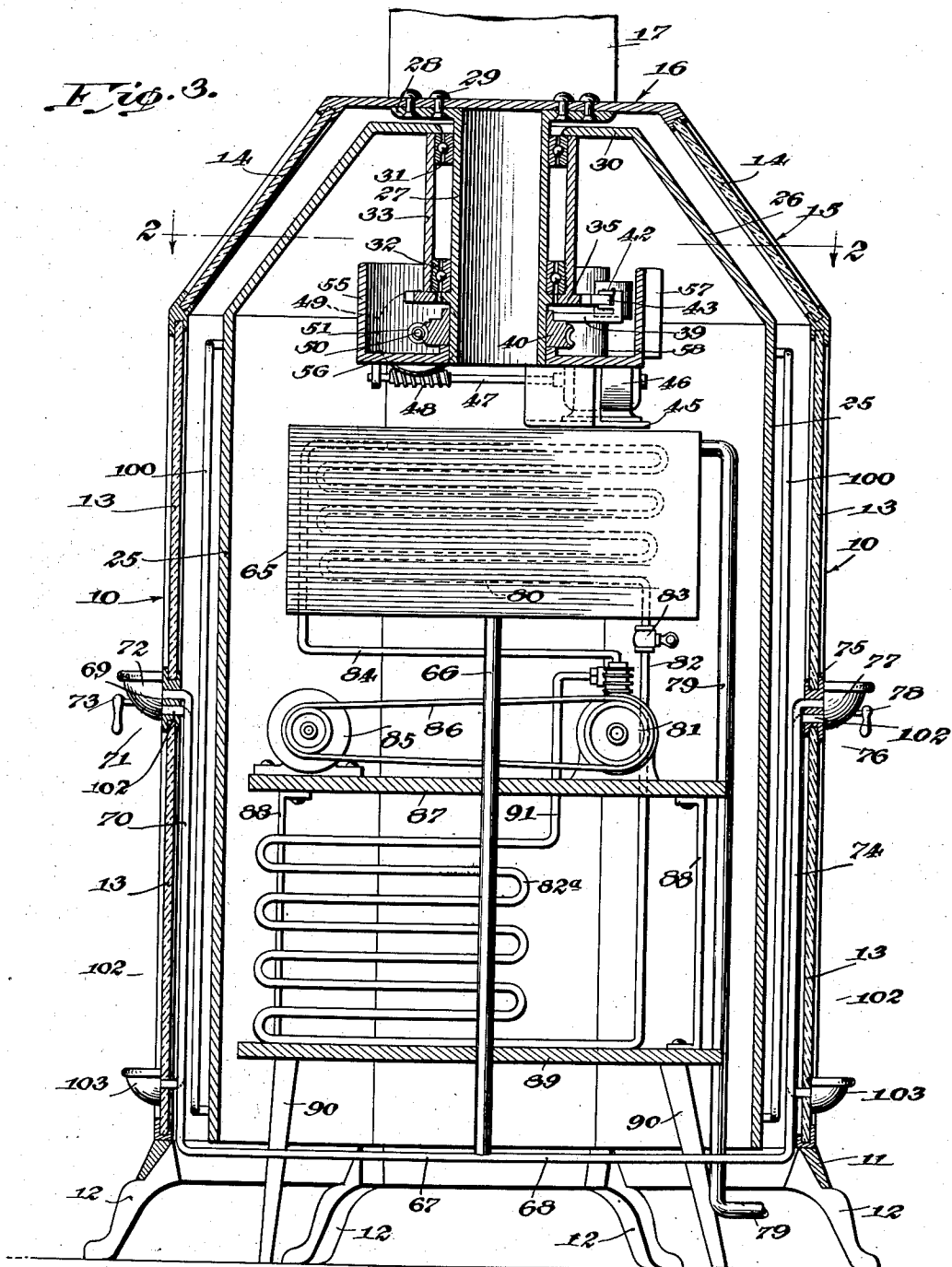
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2 Sheets-Sheet 2

Fig. 3.



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2,002,061

COMBINED REFRIGERATING AND ADVERTISING DISPLAY DEVICE

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Application September 20, 1933, Serial No. 690,264

9 Claims. (Cl. 40—33)

This invention relates to a combination refrigerator and advertising display device.

An object of the invention is the provision of a drinking fountain having a double walled housing, with the outer wall provided with spaced panels arranged circumferentially and throughout the length of the housing and the panels being formed of transparent materials so that advertisements arranged on sections of a revolving cylinder located within the housing and spaced therefrom will appear periodically through the different transparent panels when the cylinder is intermittently revolved, the cylinder being the direct inner housing for a refrigerating unit.

Another object of the invention is the provision of a combined refrigerator and advertising display device in which a housing is provided for a refrigerating unit with the housing having circumferentially arranged transparent panels and with the panels arranged in vertical rows throughout the height of the housing, a cylinder being rotatably mounted from the top of the housing, located within the housing and spaced from the inner walls of said housing, means being employed at the upper end of the housing for causing step by step rotation of the cylinder, said cylinder having spaced sections circumferentially arranged with rows of the sections extending throughout the height of the cylinder and housing, said sections corresponding in shape and position to the similarly placed transparent panels so that when the cylinder is revolved intermittently advertising matter located on the sections will appear through correspondingly placed panels in the housing.

A further object of the invention is the provision of a combined mechanical refrigerator and advertising display device in which a plurality of advertisements are placed upon an intermittently revolved cylinder which appear through transparent panels of a housing for a refrigerating unit, the unit being readily removable from the interior of the cylinder since said cylinder is free of obstructions, the device being so constructed that it may be employed upon street corners, roads, sidewalks, and other appropriate places, for cooling water in a drinking fountain, or the same may be employed on counters in stores for serving all kinds of cooled beverages.

This invention will be best understood from a consideration of the following detailed description, in view of the accompanying drawings forming a part of the specification; nevertheless, it is to be understood that the invention is not confined to the disclosure, being susceptible of such changes and modifications which shall define no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:

Figure 1 is a view in perspective of a combined refrigerator and advertising display device constructed in accordance with the principles of our invention,

Figure 2 is a horizontal section taken along the line 2—2 of Figure 3,

Figure 3 is a vertical section of the combined refrigerator and advertising display device, and

Figure 4 is a vertical section showing an inside view of a panel.

Referring more particularly to the drawings, 10 designates a frame having a base member 11 supported by legs 12 which are adapted to rest upon the sidewalk of a street or upon a counter in a building. The display device shown in the drawings has eight sides, but the housing may contain a greater or less number of sides. The housing may also be cylindrical in form. The framework is formed of metal and is so constructed that it will receive glass panels 13 and 14.

The top 15 has inclined walls while the body portion of the display device has vertically disposed walls. The transparent panels 14 are located in the inclined walls of the top 15.

The extreme top portion has a flat surface 16 upon which is mounted an auxiliary housing 17 having vertically disposed panels 18. These panels may be in the form of mirrors or advertising matter may be placed thereon.

An air dome 19 rises from the member 17 and is provided with horizontally disposed slots 20 to provide for the circulation of air through the housing. The air dome is closed, as shown at 21.

Located within the housing 10 is a cylinder 25 preferably formed of metal, but not necessarily so, and this cylinder likewise conforms to the shape in cross section of the housing 10. The upper portion 26 has inclined walls which correspond to the inclination of the panels 14 of the top section 15 of the housing. It will be noted that this cylinder is spaced from the inner walls of the housing 10 so that said cylinder may be revolved freely and out of contact with the housing. The cylinder extends approximately the full length of the housing and has its outer face divided into sections which correspond to the panels formed in the housing. On these sections are applied advertisements which will appear through the transparent panels in the housing, and since this cylinder is rotated by a step by step movement the advertisements on the rows of sections will appear periodically at the various transparent panels in corresponding rows on the panels. In other words, the cylinder 25 is revolved so that the advertisements on the cylinder will be placed before successive panels and be held there for a short period to give persons an opportunity to inspect the advertisements from all directions. Thus it will be seen that each advertisement will travel around within the hous-

ing so that where the housing is placed on the pavement of a street each advertisement will be moved towards the street side periodically and retained for a short period during each revolution of the cylinder 25.

A sleeve 27 is provided with a flange 28 and secured at 29 to the top 16 of the housing 10. This sleeve depends downwardly and through an opening in the top 30 of the cylinder 25. Bearings 31 and 32 are located in spaced relation with each other and are disposed between the outer wall of the tubular member 27 and the inner wall of a sleeve 33. The last-mentioned sleeve is connected to the underface of the top 30 of the cylinder 25.

Secured to the bottom of the sleeve 33 is a ratchet wheel 35 which is provided with teeth 36 adapted to be engaged by a pawl 37.

An arm 39 is secured to a worm gear 40 and the pawl 37 is pivotally mounted at 41 on the U-shaped member 42 carried by the end of the arm 39. A roller 43 is carried by an extension 44 of the pawl 37.

A bracket 45 is connected to the sleeve or tubular member 27 in any approved manner and supports an electric motor 46. This motor drives a shaft 47 having a worm gear 48 which meshes with a worm gear 49. A shaft 50 is connected to the worm gear 49 and drives a worm 51 which meshes with the worm gear 40.

A ring 55 is carried by a base member 56 which is secured to the lower end of the tubular member 27. This ring, as shown in Fig. 2, is split and is provided with lips 57 and 58 extending outwardly from the split portion of the ring. It will be noted that as the arm 39 is revolved the roller 43 will engage the inner face of the ring 55 until it comes to the opening adjacent the lip 58 when it will move through the opening and a spring 60 will rock the pawl 37 and move the same into engagement with a tooth 36 while the roller 43 will move outwardly past the lip 58 and into the opening. The ratchet wheel 35 is carried through an arc by the arm 39 until the roller 43 again reaches the lip 57 when the roller will be moved inwardly against the tension of the spring 60 and force the pawl 37 out of engagement with the tooth 36 of the ratchet 35.

It will be noted that the interior of the revolving cylinder is free of obstructions so that it may readily receive a refrigerating unit. The housing 10 and the cylinder 25, thereby form a cover for the refrigerating unit which may be removed bodily by the release of certain pipes.

The refrigerating unit consists of a tank 65 which has an outlet pipe 66 extending downwardly and connected to branch pipes 67 and 68. Each of these branch pipes extend across the bottom of the unit and upwardly along the inner face of the housing and adjacent the framework so that the pipe will be hidden from the exterior. A horizontally disposed pipe 69 extends laterally from the vertically disposed portions 70 of the branch pipe 67 and is connected with a pipe 71 extending through the housing and connected to a spigot located in a cup 72 secured to the outer face of the housing 10. An operating handle 73 controls the flow of water through the drinking cup 72. The branch pipe 67 has a vertical portion 74, a horizontal portion 75, and a portion 76 which extends through the housing and is connected with a spigot and a drinking cup 77. An operating handle 78 controls the flow of water to the drinking cup 77. The connections between the pipes 71, its branch pipe 70,

and the pipe 76 and its branch pipe 74 will be such that the pipes 71 and 76 may be readily released from connection with the respective branch pipes when it is desired to remove the refrigerating unit from the housing and cylinder 25.

A pipe 79 is connected in the usual manner with the top of the tank 65 so that this tank is always filled with water and under pressure.

An expansion coil 80 in the tank 65 is connected by a pipe 82 with a condensing coil 82^a through an expansion valve 83. The expansion coil is also connected to the compressor 81 by a return pipe 84.

A motor 85 through a belt 86 drives the compressor 81. Both the motor and compressor are supported upon a table 87 which is carried by brackets 88. The brackets 88 are supported by a second table 89 which is supported by legs 90. The tables 87 and 89 and the tank 65 have a width which will permit the revolving housing 25 to be placed over the refrigerating unit with the unit sufficiently spaced from the cylinder to permit the cylinder to freely revolve.

The condensing coil 82^a is connected with the outlet side of the compressor 81 by means of a pipe 91.

The general arrangement of the refrigerating unit is shown more or less diagrammatically so that the means for cooling the coil 82^a is not shown. However, this means would be supported by the table 89.

The combined refrigerator and advertising display device is adapted to be placed on the pavement of a street in a conspicuous place or within a building or an amusement place where beverages are sold. Thus the pipe 79 may be connected with a source of water if used as a drinking fountain on the street or it may be connected up with a source of beverage when used for dispensing liquids.

Thus it will be seen that the device contemplates not only an advertising display but also contemplates the use of the device as a means for dispensing liquids, water, or beverages, and it is immaterial where the device is placed so long as the position is sufficiently conspicuous to call the attention of the public to the advertisements on the sections of the cylinder 25 which is revolved step by step so that advertisements are periodically retained before the various panels. Therefore, by this step by step rotation of the inner cylinder all of the advertisements on the cylinder will be moved to the most conspicuous position so that they may be viewed by the public at each revolution of the cylinder 25 and all of the advertisements then will be equally displayed to the public.

While an eight-sided housing has been shown it will be appreciated that the number of walls may be greater or less than the number shown and the ratchet wheel 35 will be provided with the number of teeth required to place the advertisements before the various panels.

Where a greater number of sides are employed the space between the lips 57 and 58 will be reduced. A less number of sides, however, will require a wider space between the lips.

Neon tubes 100 are carried by the cylinder 25 for illuminating the advertisements on the sections of the cylinder. These neon tubes are connected to the source of current in any approved manner.

Pipes 102 connect the cups 72, 77 with cups 103 which are disposed sufficiently near the base of

the fountain so that animals may reach the cups 103. Waste water from the cups 72 and 77 flows to the cups 103 by means of the pipes 102.

The pipes 102 are located on the inside of the housing and are disposed behind the framework so that they are invisible from the exterior.

We claim:

1. A combined refrigerating and advertising display device comprising a housing formed of a framework and transparent panels, a cylinder within the housing, spaced from the inner walls of said housing and extending substantially the full length of said housing, means for supporting the cylinder, said cylinder having sections of advertising matter thereon appearing through the panels, means for rotating the cylinder step by step for causing each section of the advertising matter to appear at all of the panels disposed in the same horizontal plane passing through said section, and a refrigerating unit for cooling water from a hydrant and enclosed in a protective manner by said cylinder and housing.

2. A combined refrigerating and advertising display device comprising a housing formed of a framework and transparent panels, a cylinder within the housing, spaced from the inner walls of said housing and extending substantially the full length of said housing, the upper end of the housing being reduced in cross sectional area, means for supporting the cylinder from the upper inner reduced end of the housing, said cylinder having sections of advertising matter thereon appearing through the panels, means for rotating the cylinder step by step for causing each section of the advertising matter to appear at all of the panels disposed in the same horizontal plane passing through said section.

3. A combined refrigerating and advertising display device comprising a housing formed of a framework and transparent panels, a cylinder within the housing, spaced from the inner walls of said housing and extending substantially the full length of said housing, means for supporting the cylinder, said cylinder having sections of advertising matter thereon appearing through the panels, means for rotating the cylinder step by step for causing each section of the advertising matter to appear at all of the panels disposed in the same horizontal plane passing through said section, a refrigerating apparatus within the cylinder, the interior of the cylinder being free of obstructions so that it will provide means for completely receiving and housing the refrigerating apparatus as a unit.

4. A combined refrigerating and advertising display device comprising a housing having a top and formed of a framework and annular rows of transparent panels, a cylinder within the housing and spaced from the walls of said housing, means for rotatably mounting the cylinder on the inner face of the top of the housing, the cylinder having spaced sections provided with advertising matter, the sections corresponding in shape and position to the panels, means for rotating the cylinder step by step so that each section will be displayed behind each panel of a corresponding row intermittently, and a refrigerating apparatus enclosed by the cylinder, said cylinder forming a housing for the refrigerating apparatus.

5. A combined refrigerating and advertising display device comprising a housing having a framework provided with annular rows of transparent panels, a cylinder within the housing and spaced from the walls of said housing, a tubular

member suspended from the top of the housing, bearings carried by the tubular member and the cylinder for rotatably supporting the cylinder, the cylinder having spaced sections provided with advertising matter, the sections corresponding in shape and position to the panels, means for rotating the cylinder step by step so that each section will be displayed behind each panel of a corresponding row intermittently, the interior of the cylinder being free of obstructions, a refrigerating unit received by and housed by said cylinder.

6. A combined refrigerating and advertising display device comprising a housing having a top and formed of a framework and annular rows of transparent panels, a cylinder within the housing and spaced from the walls of said housing, a tubular member suspended from the top of the housing, bearings carried by the tubular member and the cylinder for rotatably supporting the cylinder, the cylinder having spaced sections provided with advertising matter, the sections corresponding in shape and position to the panels, means for rotating the cylinder step by step so that each section will be displayed behind each panel of a corresponding row intermittently, the lower end of the housing and cylinder being open, and a refrigerating unit received through the open ends and completely housed within the cylinder.

7. A combined refrigerator and advertising display device comprising a housing having a top portion, the top portion being formed with inclined walls, the walls of the remaining portion of the housing being vertically disposed, a cylinder within the housing and spaced from the inner face of said housing, the shape of the cylinder being substantially the shape of the housing, means for rotatably supporting the cylinder from the top of the housing, the inclined walls and vertically disposed walls of the housing being provided with annular rows of spaced panels, the cylinder having rows of spaced sections correspondingly positioned relative to the panels, the sections adapted to have advertising matter thereon, means for rotating the cylinder step by step for placing the sections successively before the respective panels, the lower end of the housing and cylinder being open, and a refrigerating unit received through the open ends and completely housed within the cylinder.

8. A combined refrigerating and advertising display device comprising a stationary housing provided with a plurality of transparent panels, a rotatable cylinder within the housing and provided with advertising matter appearing through the panels, means for rotating the cylinder so that the advertising matter will appear through the panels consecutively, and a refrigerating unit for cooling water from a hydrant housed within the cylinder.

9. A combined refrigerating and advertising display device comprising a stationary housing provided with a plurality of transparent panels, a rotatable cylinder within the housing and provided with advertising matter appearing through the panels, means for rotating the cylinder so that the advertising matter will appear through the panels consecutively, a refrigerating unit for cooling water from a hydrant housed within the cylinder, the hydrant including a pipe projecting from the ground and connected to the housing for securing the housing in a fixed position.

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