Nov. 12, 1929. C. MOE 1,735,051

TEST BOTTLE HOLDER FOR CREAMERIES

Filed Sept. 19, 1927

Fig. 1

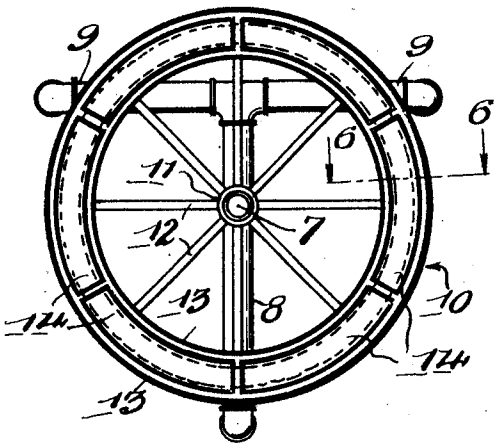


Fig. 3

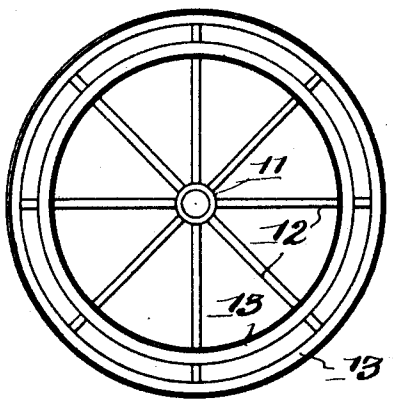


Fig. 2

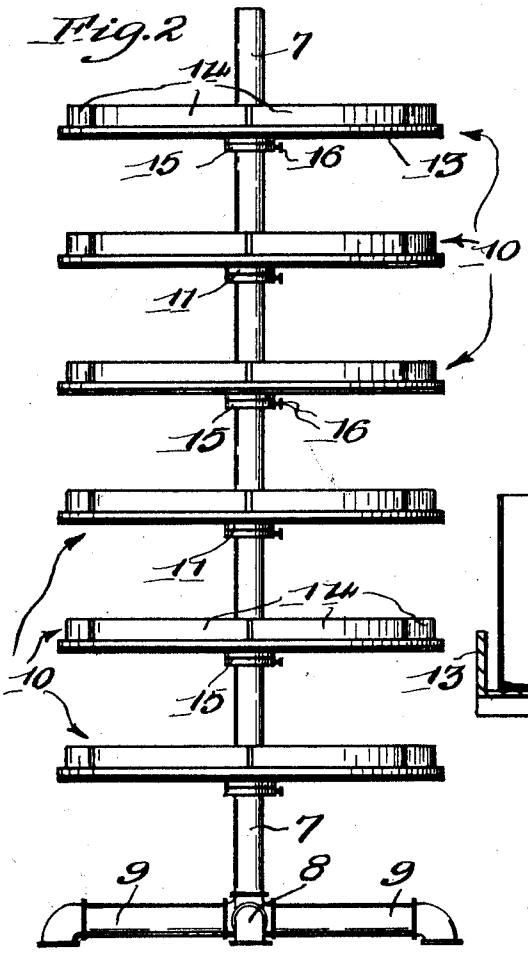


Fig. 4



Fig. 5

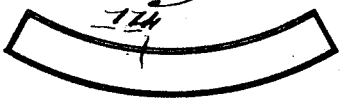
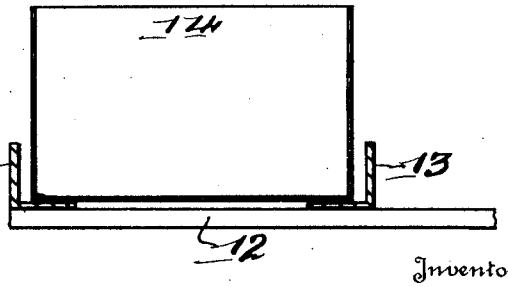


Fig. 6



Inventor

Christ Moe

By Stryker & Stryker

Attorneys

Patented Nov. 12, 1929 1,735,051

UNITED STATES PATENT OFFICE

CHRIST MOE, OF MINNEAPOLIS, MINNESOTA

TEST-BOTTLE HOLDER FOR CREAMERIES

Application filed September 19, 1927. Serial No. 220,551.

This invention relates to a supporting rack or cabinet particularly, although not exclusively, adapted for use in holding and rendering easily accessible a large number of test bottles of the type used in creameries.

It is my object to provide an improved rack or holder for a multiplicity of bottles adapted to facilitate filling, cleaning or other handling of the bottles including the selection of any particular bottle or group of bottles which may be required. Another object is to provide a cabinet of this kind which is adapted to meet the conditions of sanitation required in creameries.

It is the practice in many creameries which purchase cream from a large number of dairies or farmers to keep a daily record of the quality of the product purchased from each of the several producers by retaining samples of the same in individual test bottles. The bottles containing the samples are labeled or numbered and otherwise indexed to identify the several producers. From time to time as further quantities of cream are purchased from a particular producer samples are added to the bottle containing the product of the same producer. Thus, it will be evident that the larger creameries must keep a large number of test bottles on hand and much time is saved by making all of the bottles readily accessible. The present invention makes it possible to select any bottle in the shortest possible time and otherwise facilitates the handling of the bottles.

The invention will be best understood by reference to the accompanying drawings in which Figure 1 is a plan view of my improved device; Fig. 2 is a side elevation of the same; Fig. 3 is a plan view of one of the revoluble elements of the device with the trays removed; Figs. 4 and 5 are side and plan views respectively of one of the trays; and Fig. 6 is a typical transverse section through one of the trays and supports therefor taken on the line 6—6 of Fig. 1.

A central standard 7 consisting of a cylindrical pipe, is supported upon a base having laterally projecting arms 8 and 9, also formed from pipe. Upon this central standard is mounted a series of revoluble units 10 each adapted to hold a number of bottles. As the several units 10 are identical with each other only one will be described. Each unit 10 has a hub 11 through which the standard 7 extends and a suitable number of spokes 12 are fixed in the hub 11 so as to extend radially outward therefrom. Rigidly secured to the spokes 12 near their outer ends is a pair of concentric, circular guides or supports 13 for a series of short arcuate trays 14. The guides 13 are preferably constructed from angle bars arranged to form an annular channel in which the trays 14 are held. The several trays 14 are unattached to the guides 13, being adapted to be removed with their contents from the support. Each tray 14 is arranged to receive a number of test bottles or the like. The hub 11 of each unit 10 is supported upon a collar 15 which is secured to the standard 7 by a set screw 16, the hub 11 being freely revoluble upon the standard 7.

As will be readily understood a large number of test bottles may be supported in the trays 14, each bottle bearing its identifying number or other marking. When the bottles are arranged according to the sequential order of their identifying numerals and in the successive tiers of trays, any required bottle may be quickly selected by merely rotating the appropriate unit until the bottle appears within easy reach of the operator. Further, my arrangement of arcuate trays 14 facilitates the removal of groups of the bottles for sterilizing or for other necessary handling and the entire cabinet is designed to permit easy and thorough cleaning. Thus, it will be noted that the guides or supports 13 for the trays are spaced apart to facilitate cleansing. The device is further characterized as durable, simple and inexpensive in its construction.

Having described my invention what I claim is new and desire to protect by Letters Patent is:

In a holder for a multiplicity of bottles, a central standard and a plurality of independently revoluble units mounted one above another on said standard, each of said units comprising a pair of concentric, circular and

horizontally disposed angle bars, the bars of each pair having horizontal flanges extending toward each other and in spaced parallel relation and upright flanges on the bars of each pair forming annular guide channels between them for supporting bottles or the like.

In testimony whereof, I have hereunto signed my name to this specification.

CHRIST MOE.