April 18, 1933. R. McC. HALBACH 1,904,222

CULTURE BOTTLE

Filed March 9, 1932

Fig. 1

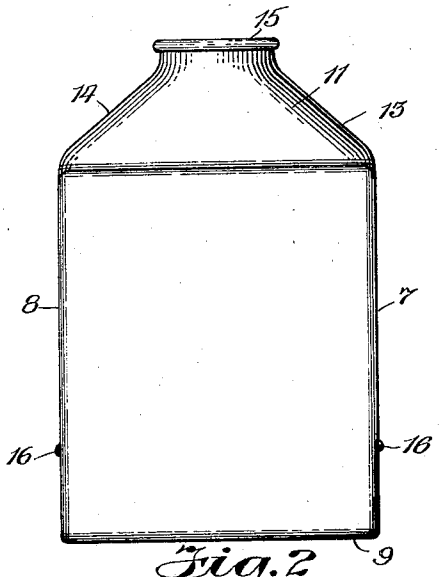


Fig. 2

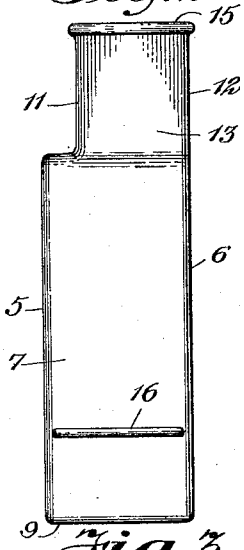
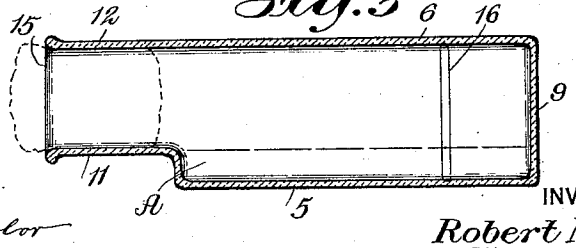


Fig. 3



WITNESSES

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UNITED STATES PATENT OFFICE

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CULTURE BOTTLE

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This invention relates to accessories for bacteriological laboratories and refers more particularly to a culture bottle designed and intended to serve both as a container for sterile bacteriological media and for a culture plate for the growth and isolation of bacteriological colonies, molds, etc., while serving as a convenient means for making observations of and studying the culture without removing the same from the bottle.

Some of the principal objects in view are to provide an accessory of the indicated character which eliminates the present practice of storing the media in separate containers, such as test tubes, etc., which necessitates double handling; to reduce the danger of contamination to the inoculated surface during plating and subsequent picking of the colonies; to admit of the preservation for a substantial period of time of the more important colonies merely by capping the bottle; to make for less likelihood of breakage of the containers while rendering cleansing more facile; to permit of the use of the same bottle for culturing organisms in broth, etc., and to provide containers of this character which require less room than flasks of a corresponding capacity while admitting of a compact storage or packing of a number of said bottles.

The invention further resides in the provision of a culture bottle which is simple in its construction, which may be inexpensively produced and which is highly efficient in its purpose.

With the above recited and other objects in view, reference is had to the following description and accompanying drawing, in which there is exhibited one example or embodiment of the invention, while the claims define the actual scope of the same.

In the drawing:

Figure 1 is a side elevation of the bottle as viewed from the left in Figure 2.

Figure 2 is an edge view of the bottle.

Figure 3 is a longitudinal sectional view through the bottle, illustrating the same supported on its side in a position to retain the contents.

Referring to the drawing by characters of reference, the bottle embodies a substantially rectangular body including flat parallel major sides 5 and 6 and parallel minor sides 7 and 8, a bottom 9 and a neck having substantially parallel major sides 11 and 12, one of which sides, namely, the side 12, is disposed flush or in the same plane with the major side wall 6 of the body, and the other of which, namely, the side 11, is offset inwardly with respect to the major side 5 of the body. The neck is further provided with minor sides 13 and 14 which converge from their juncture with the minor sides 7 and 8 of the bottle body to their juncture with the mouth 15 of the neck. This construction of the bottle provides a downwardly offset chamber or portion A when the bottle is disposed horizontally with the major side wall 5 downwardly, whether rested on said side 5 or otherwise supported. The bottle is further provided on at least one of the side walls, and preferably on both of the minor side walls 7 and 8 with gage means, such as a rib or graduation mark 16, which is spaced from the bottom 9 a distance to indicate the volume of the plating media or contents which will be accommodated by the portion or chamber A so as to avoid spillage when the bottle is disposed in the position illustrated in Figure 3. The sides 5 and 6 especially will under this construction be disposed as close together as is possible and as nearly parallel and perfect as is feasible to prevent optical distortion when making observations. By constructing the neck of a tapering or flaring configuration, it is possible to work or pick the colonies with a suitable instrument inserted through the mouth 15 of the neck.

While there has been illustrated and described a preferred embodiment of the invention, no limitation is necessarily intended to the precise structural details, which it is understood may be modified within the scope of the appended claims.

What is claimed is:

1. A bacteriological culture bottle including a body having parallel major side walls, a neck offset laterally with respect to one of said side walls whereby said wall, and the

adjacent walls of the bottle provide a portion for receiving and retaining a fluid plating media when the bottle is supported horizontally on said side.

2. A bacteriological culture bottle including a body having parallel major side walls, a neck offset laterally with respect to one of said side walls whereby said wall, and the adjacent walls of the bottle provide a portion for receiving and retaining a fluid plating media when the bottle is supported horizontally on said side and gage means provided on one of the side walls of the bottle and spaced from the bottom for indicating the volume of plating media which will be accommodated by the receiving and retaining portion.

3. A container of the character described including a body and a neck offset with respect to one side wall only, whereby said side wall, together with the adjacent wall of the bottle, defines when the container is disposed horizontally on said side wall, a portion for retaining a predetermined volume.

4. A container of the character described including a body and a neck offset with respect to at least one side wall of the body, whereby said side walls, together with the adjacent walls of the bottle, defines when the container is disposed horizontally on said side wall, a portion for retaining a predetermined volume and means functioning when the container is upright, for indicating that level of the contents which corresponds to said predetermined volume.

5. A container of the indicated character including a body, a neck offset with respect to one of the side walls of the body whereby said side wall and the adjacent walls of the bottle provide a portion for retention of the fluid contents therein, when the container is disposed horizontally with said side wall downward and indicating means spaced from the bottom of the body when the container is upright, to disclose the volume of the contents which will be accommodated and retained by said portion.

6. In a bacteriological culture bottle, a substantially rectangular body including flat parallel major and minor side walls, a bottom and a neck tapering from the minor side walls toward the mouth of the neck and having substantially parallel opposite walls, one of which is flush with one of the major side walls and the other of which walls is offset with respect to the other body side wall, to define in the body a portion for receiving and retaining a fluid plating media when the bottle is supported horizontally on said latter offset major side wall of the body.

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