April 3, 1951 H. E. McKEEN 2,547,337

HOT-WATER BOTTLE STOPPER OR CORK

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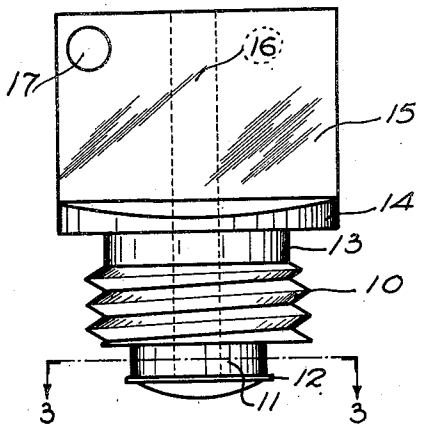


Fig 1

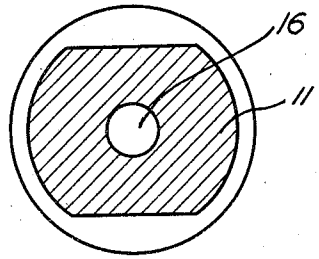


Fig 3

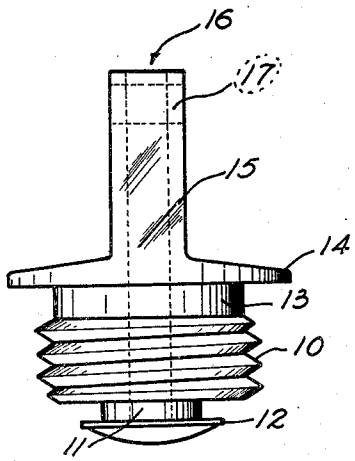


Fig 2

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HOT-WATER BOTTLE STOPPER OR CORK

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1 Claim. (Cl. 150—8)

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This invention relates to improvements in hot water bottle stoppers.

In hospitals as well as in treating sick persons at home which require hot water bottle treatment it is generally difficult to determine the temperature of the water in the bottle so as to assure that the patient will not be burned when the hot water bottle is applied.

Another aspect is that sometimes to prevent injuring the patient the bottle is applied when the water is not sufficiently hot. In this case it results that the patient gets none or very little benefit from the application of a hot water bottle.

To determine the temperature of the water in the bottle and also to help maintain the desired temperature, I have devised a stopper in which I insert a thermometer.

In the construction of my stopper it is preferred to use a clear and transparent plastic material so that the attendant can read the temperature, should the reading point be below the top line of said stopper. As aforementioned transparent material is preferable although I make no specific claim for such as other material may also be used to advantages.

The object of my invention is therefore the provision of a hot water bottle stopper in which may be removably secured a thermometer to determine and control the temperature of the water within the bottle.

With this and other objects in view which may appear while the description proceeds the invention consists in the novel construction and arrangement of the stopper as hereinafter more specifically set forth, claimed and shown in the accompanying drawings forming part of this application and in which:

Fig. 1 is a front elevational view of my invention;

Fig. 2 is a side elevational view thereof and

Fig. 3 is a section taken on line 3—3 of Figure 1.

Referring more in detail to the drawings in which similar reference characters designate corresponding parts throughout the several views it will be seen the invention consists of a preferably clear and transparent material hot water bottle stopper having a threaded shank 10 for engagement with the threaded neck of a conventional hot water bottle.

Immediately below the threaded shank 10 is a recessed portion 11 and a shoulder 12 adjacent to said recessed portion to removably retain a rubber washer (not shown in the drawings).

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A further recessed portion 13 of lesser diameter than the threaded shank 10 is disposed immediately above said threaded shank.

This recess 13 is superposed by a shoulder 14 which provides means to prevent the stopper from threading down too far into the bottle.

Centrally of said shoulder 14 is a wall 15 the width of which corresponds to the width of the shoulder 14. At the center point of wall 15 is drilled hole 16 for the purpose of inserting a thermometer. At a corner of the wall 15 is a hole 17 for the purpose of securing the stopper to the water bag and preventing loss thereof.

It is believed that the construction and advantages of the structure shown may be apparent from the foregoing paragraphs taken in conjunction with the accompanying drawings without further detailed description.

While the preferred embodiment of the invention has been disclosed it is understood that minor changes in the details of construction, combination and arrangement of cooperating parts may be resorted to within the scope of what is claimed without departing from the spirit of the invention.

I claim:

A hot water bottle stopper comprising a body of transparent material having a threaded shank, an annular recess at the lower end of said shank adapted to receive a washer, a lateral flange at the upper end of said shank, and an upstanding rib extending diametrically of said shank and flange, said rib being of rectangular shape in cross section and having a vertical bore in the center thereof opening through the top of the rib and extending into the said shank for receiving a thermometer.

HAROLD E. McKEEN.

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