Aug. 18, 1931. T. W. MILLER ET AL 1,819,913

COVER FOR CONTAINERS

Filed Aug. 18, 1930

Fig. 1

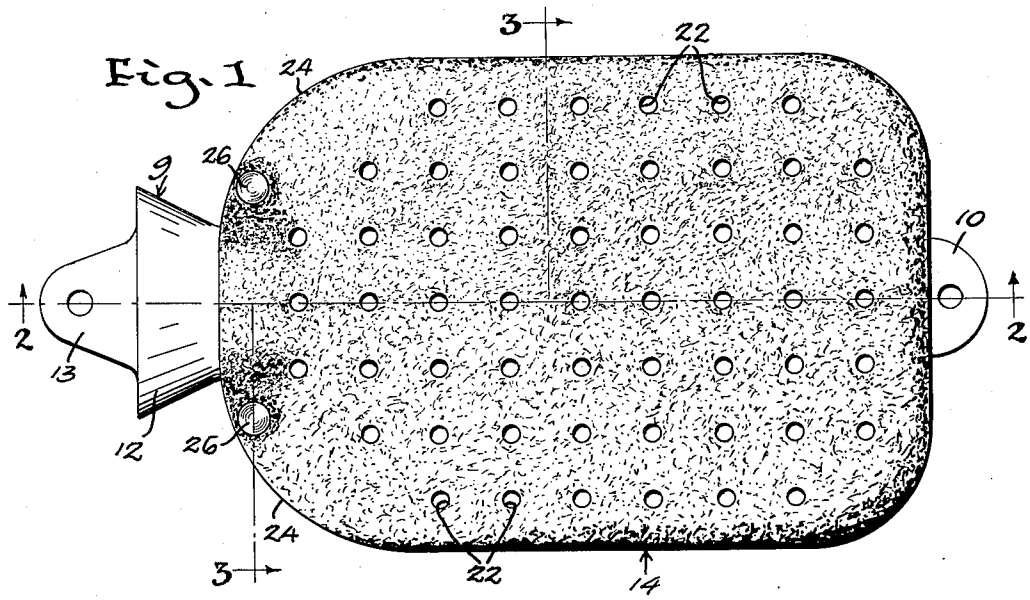


Fig. 2

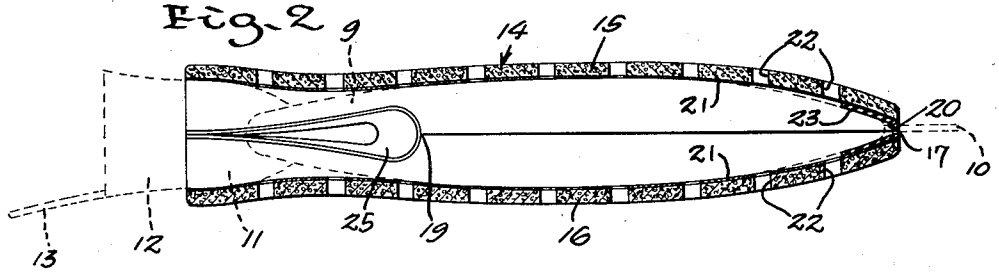


Fig. 3

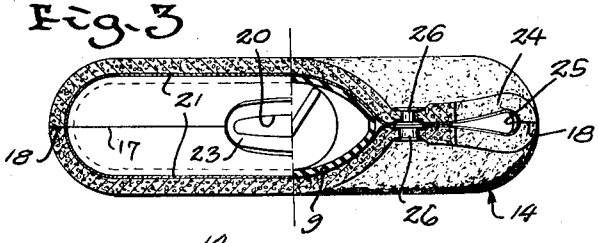
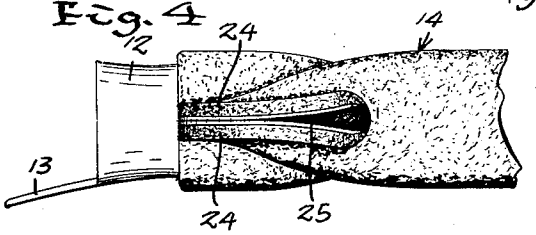


Fig. 4



INVENTORS

THOMAS W. MILLER

and ARTHUR D. GREENE

By Smith and Freeman

ATTORNEYS

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UNITED STATES PATENT OFFICE

THOMAS W. MILLER AND ARTHUR D. GREENE, OF ASHLAND, OHIO, ASSIGNORS TO THE FAULTLESS RUBBER COMPANY, OF ASHLAND, OHIO, A CORPORATION OF OHIO

COVER FOR CONTAINERS

Application filed August 18, 1930. Serial No. 476,218.

This invention relates to covers for containers and has for its object the provision of an improved cover, more particularly adapted for use in connection with hot water bottles or the like, such as ice bags.

In the drawings accompanying this specification and forming a part of this application we have shown, for purposes of illustration, one form which our invention may assume, and in these drawings:

Figure 1 is a plan view of an embodiment of the invention,

Figure 2 is a sectional view corresponding to the line 2—2 of Figure 1,

Figure 3 is a sectional view corresponding substantially to the line 3—3 of Figure 1, while

Figure 4 is a fragmentary side elevational view of said embodiment.

The cover hereinafter described is shown as used in connection with a rubber hot water bottle 9 having an apertured tab 10, a reduced neck 11, a flared mouth 12, and an apertured tab 13.

The cover, indicated generally at 14, comprises oppositely disposed side walls 15 and 16 of rubber sponge, secured together along their bottom edges 17 and their side edges 18, approximately to the points 19, as by rubber cement, the cement being omitted along the bottom edges to provide the aperture 20 for the tab 10 of the bottle 9, and also omitted from the points 19 outwardly, so as to form the loose mouth portions for the receptacle.

The walls 15 and 16 of sponge rubber are reenforced along their inner surfaces by skins or rinds 21, left thereon, after the rubber sponge is molded. The outer surfaces of the walls 15 and 16, however, have the skin, resulting from molding, removed therefrom, so as to expose the cellular structure of the rubber sponge throughout the exterior surfaces of the walls 15 and 16.

A plurality of apertures 22 are formed in each of the walls 15 and 16 providing for the escape of heat from the hot water bottle 9 by radiation, and the number of apertures may be varied, depending upon how slowly such escape is desired.

The cover 14 may further be reenforced about the aperture 20 by sheet rubber 23, and the marginal edges of the mouth portions 24 may also be reenforced by sheet rubber 25.

The mouth portions 24 may be fastened about the neck 11 of the hot water bottle 9, by any suitable means, snap fasteners 26 being shown, and a pair of such fasteners are fixed to the reenforced mouth portions 24 at each side of the neck 11 of the hot water bottle.

By the above described arrangement it will be appreciated that the exposed cut rubber sponge presents a velvety exterior surface pleasant to the touch and attractive in appearance; furthermore due to the formation of the exposed cellular structure of the rubber sponge a surface is provided which tends to remain wherever placed and which is not likely to slip from the desired position, but rather clings to such position by reason of vacuous suction set up by the yieldable cellular porous formation.

Also due to the formation of the material heat is retained longer than would ordinarily be the case, though there is no possibility of the patient being burned as the material does not become hot, but is aerated, and prevents extreme heat being transmitted to the patient. The openings in the walls of the cover determine the period over which the heat is retained, the greater the number and larger the size of the holes, the shorter the period during which the heat is retained, whereas reduction in the number and size of holes insures the retention of the heat over a longer period.

It will be understood by those skilled in the art that the embodiment described herein accomplishes at least the principal object of our invention; it also will be apparent that the invention is adaptable to uses and has advantages other than those herein specifically referred to; furthermore it will be appreciated that various changes and modifications may be made without departing from the spirit of the invention; and accordingly it will be understood that the embodiment

herein disclosed is illustrative only and that the invention is not limited thereto.

We claim:

1. A pliable heat-transfer-retarding receptacle jacket, comprising pliable rubber sponge, having the outer surface of the rubber sponge exposed to form the outer surface of said jacket, and having said outer surface of said rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

2. A pliable heat-transfer-retarding receptacle jacket, washable and sterilizable, and composed of pliable rubber sponge having its outer surface in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

3. A pliable heat-transfer-retarding receptacle jacket, comprising pliable cellular heat-insulating material and recessed to provide for transfer of heat therethrough in controlled amount.

4. A pliable heat-transfer-retarding receptacle jacket, comprising pliable rubber sponge and recessed to provide for transfer of heat therethrough in controlled amount.

5. A pliable heat-transfer-retarding receptacle jacket, comprising pliable rubber sponge, having the outer surface of the rubber sponge exposed to form the outer surface of said jacket, having said outer surface of said rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch, and having said rubber sponge recessed to provide for transfer of heat therethrough in controlled amount.

6. A pliable heat-transfer-retarding receptacle jacket, washable and sterilizable, and composed of washable sterilizable pliable cellular heat-insulating material and recessed to provide for transfer of heat therethrough in controlled amount.

7. A pliable heat-transfer-retarding receptacle jacket, washable and sterilizable, and composed of pliable rubber sponge and recessed to provide for transfer of heat therethrough in controlled amount.

8. A pliable heat-transfer-retarding receptacle jacket washable and sterilizable, and composed of pliable rubber sponge, having the outer surface of the rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch, and having said rubber sponge recessed to provide for transfer of heat therethrough in controlled amount.

9. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable rubber sponge, having the outer surface of the rubber sponge exposed to form the outer surface of said jacket, and having said outer surface of said rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

10. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable heat-transfer-retarding washable and sterilizable outer or jacket portion; said jacket portion being composed of pliable rubber sponge, having its outer surface in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

11. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable cellular heat-insulating material, recessed to provide for transfer of heat therethrough in controlled amount.

12. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable rubber sponge, recessed to provide for transfer of heat therethrough in controlled amount.

13. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable rubber sponge, having the outer surface of the rubber sponge exposed to form the outer surface of said jacket, and having said outer surface of said rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch, and having said sponge rubber recessed, to provide for transfer of heat therethrough in controlled amount.

14. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable washable and sterilizable heat-transfer-retarding outer or jacket portion; said jacket portion being composed of pliable washable sterilizable cellular heat-insulating material, recessed to provide for transfer of heat therethrough in controlled amount.

15. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable washable and sterilizable heat-transfer-retarding outer or jacket portion; said jacket portion being composed of pliable rubber sponge, recessed to provide for transfer of heat therethrough in controlled amount.

16. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable washable and sterilizable heat-transfer-retarding outer or jacket portion; said jacket portion being composed of pliable rubber sponge, recessed to provide for transfer of heat therethrough in controlled amount, and having its outer surface in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

17. A bottle unit, for thermal application, comprising: an inner or container portion; and a separate pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable rubber sponge, having the outer surface of the rubber sponge exposed to form the outer surface of said jacket, and having said outer surface of said rubber sponge in cut section, to provide for said jacket an outer surface clinging and pleasant to the touch.

18. A bottle unit, for thermal aplication, comprising: an inner or container portion; and a pliable heat-transfer-retarding outer or jacket portion; said jacket portion comprising pliable heat-insulating material, recessed to provide for transfer of heat therethrough in controlled amount.

19. A bottle unit, for thermal application, comprising: an inner or container portion; and a pliable washable and sterilizable heat-transfer-retarding outer or jacket portion; said jacket portion being composed of pliable washable sterilizable heat-insulating material, recessed to provide for transfer of heat therethrough in controlled amount.

In testimony whereof we hereunto affix our signatures.

THOMAS W. MILLER.
ARTHUR D. GREENE.