March 4, 1969 G. M. LOWERY 3,431,055

CLEANING DEVICE

Filed July 8, 1966



Fig. 1

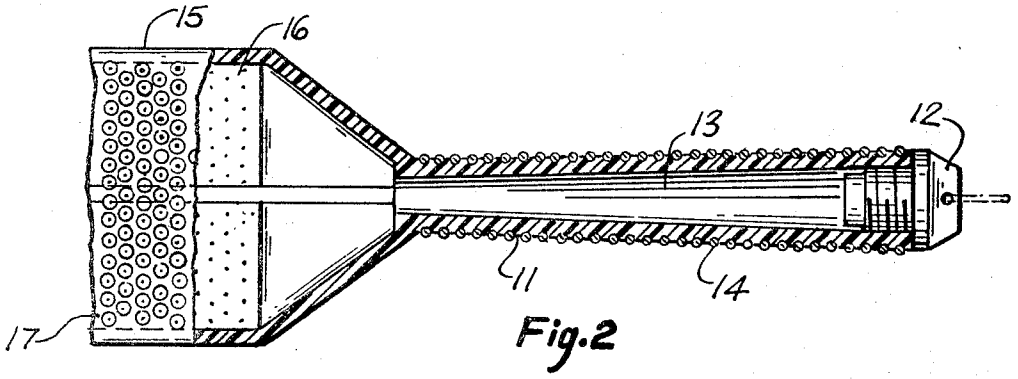


Fig. 2

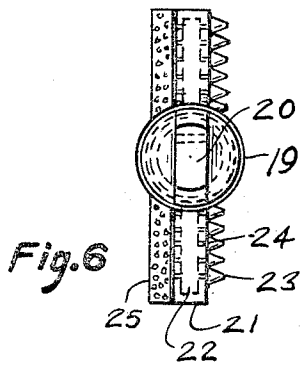


Fig. 6

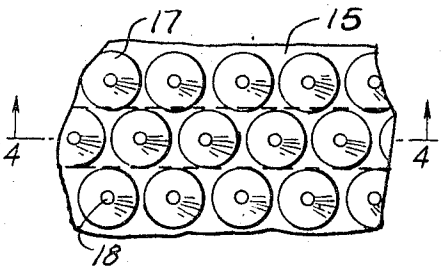


Fig. 5

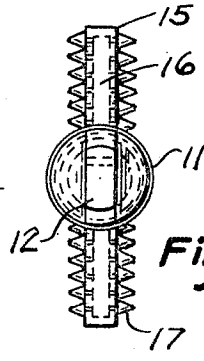


Fig. 3

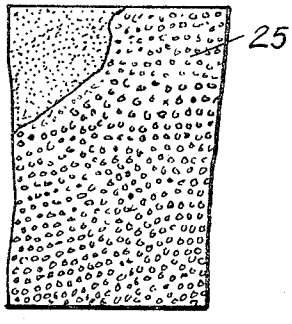


Fig. 7

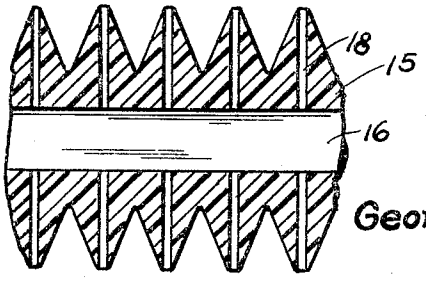


Fig. 4

INVENTOR.

George M. Lowery

United States Patent Office

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CLEANING DEVICE

George M. Lowery, 1612 N. Ricketts,
Sherman, Tex. 75090

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U.S. Cl. 401—28 7 Claims
Int. Cl. A46b 11/00; A61h 11/00

ABSTRACT OF THE DISCLOSURE

A device for rubbing against a person's body, the device containing soap or shampoo which is released therefrom upon the person's body, the device having a handle at each opposite end so that it may be conveniently handled in being drawn across the body skin.

This invention relates to cleansing devices and more particularly a cleansing strap.

It is therefore the main purpose of this invention to provide a cleansing strap for providing the cleansing action of the human skin which is adapted to admit cleansing solution released by said strap.

Another object of this invention is to provide a cleansing strap which assumes an elongated configuration and is sufficiently flexible to reach any part of the human body.

Another object of this invention is to provide a cleansing strap which is hygienically safe and may be used with liquid soap, shampoo and the like.

Still another object of this invention is to provide a cleansing strap which is inexpensive to produce, may be moderately priced, is of simple construction, and provides maximum utility to its user.

Other objects and advantages of this invention will become apparent from a consideration of the following detailed description taken in connection with the accompanying drawing, wherein a satisfactory embodiment of the invention is shown. However, it is to be understood that the invention is not limited to the details disclosed but includes all such variations and modifications as fall within the spirit of the invention and the scope of the appended claims.

In the drawing:

FIGURE 1 is a top edge view of this invention;

FIGURE 2 is a longitudinal sectional view of one of the handle members and an adjoining portion of the strap body in accordance with the invention;

FIGURE 3 is an end view of this invention;

FIGURE 4 is an enlarged fragmentary section taken on lines 4—4 of FIGURE 5;

FIGURE 5 is a fragmentary view of the outer face portion of the strap body in accordance with this invention;

FIGURE 6 is a modified end view of this invention;

FIGURE 7 is a face view of the modified form of this invention.

According to this invention, a cleansing strap **10** is provided with a pair of handles **11**. Each handle **11** is of generally elongated, tapered configuration and its end portion is provided with a plug member **12** for suitably securing the cleansing solution within the hollow inlet **13** and the hollow space **16** of the elongated strap portion **15**. The outer portion of each handle **11** is provided with a

plurality of friction rings **14** which provide gripping means to each handle **11**. Both face portions of the flattened strap **15** are provided with a plurality of outwardly extending, conically shaped projections **17**. Each projection is provided with a hole **18** which directly communicates with the hollow space **16** containing the cleansing solution.

Looking now at the FIGURES 6 and 7, one will see that in its modified form the invention provides for an arrangement having handles **19**, plugs **20** and generally similar strap portion **21**. Like in the preferred embodiment, portion **21** is provided with a hollow space **22** which contains the solution which passes through one wall **24** into the conically shaped projections **23**. However, this arrangement applies only to one side of the modified strap portion **21**. The other side of said portion is adhesively secured to a resilient, porous member **25**.

It will also be noted that, in operation, liquid soap or shampoo is poured into the hollow inlet **13** of the handle **11**. Plug member **12** is then snugly inserted into the opening of said handle for suitably locating said liquid soap or shampoo within the hollow space **16** of the flexible strap portion **15**. Then said fastening strap is held by the handles **11** and is pulled across the skin of a human body, the cleansing solution within the hollow portion **16** is released to the holes **18** of the projections **17** thereby causing cleansing action on the human skin.

The solution is maintained within the space **16** by surface tension created from the combination of the small size of the finger orifice **18** and the viscosity of the solution. The solution is then dispensed when the strap frictionally abuts the skin by the compression of the squeezing action on the fingers **17** and the compression created by the flexing or squeezing of the body portion of the strap **15**. Also the contact of the solution held in the orifices by surface tension with moisture on the skin will cause a dispensing of the solution from the strap by reducing the viscosity of the solution.

What I now claim is:

1. A cleansing strap for dispensing cleansing solution comprising an elongated flexible strap; face portions on opposite sides of said strap; an elongated hollow space extending longitudinally of said strap, between the face portions, adapted to receive cleansing solution; a plurality of outwardly extending projections on at least one of said face portions; a hole centrally located in each projection in communication with the hollow space between the face portions; a grasping member disposed at each end of the strap; a fill passage communicating with the hollow space between the face portions; and a closure member for closing and sealing the passage, whereby cleansing solution in the space is dispensed through the holes when said projections are pressed against a surface.

2. The combination called for in claim **1** wherein the grasping members are handles and the passage extends longitudinally through one of the handles, and the closure member is a plug removably secured in the outer end of the passage.

3. The combination called for in claim **2** wherein the passage has a threaded portion at one end thereof and the plug threadedly engages said threaded portion.

4. The combination called for in claim **2** with the addition of friction means on each handle to facilitate gripping same.

5. The combination called for in claim 1 wherein outwardly extending projections are provided on each face portion.

6. The combination called for in claim 1 with the addition of a layer of porous material on the other face portion.

7. The combination called for in claim 1 wherein the grasping members are handles and each handle has a passage extending longitudinally therethrough communicating with the hollow space; and a removable closure member disposed in the outer end of each passage.

References Cited

UNITED STATES PATENTS

1,334,716	3/1920	Shont	15—509
1,418,019	5/1922	Pearson	15—605
1,852,991	4/1932	Virneburg	15—509
3,099,032	7/1963	Webb	15—568 X

EDWARD L. ROBERTS, *Primary Examiner.*

U.S. Cl. X.R.

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