Sept. 21, 1971 W. GILBERT 3,606,890

BEAUTY TREATMENT APPARATUS

Filed July 9, 1969

FIG. 1

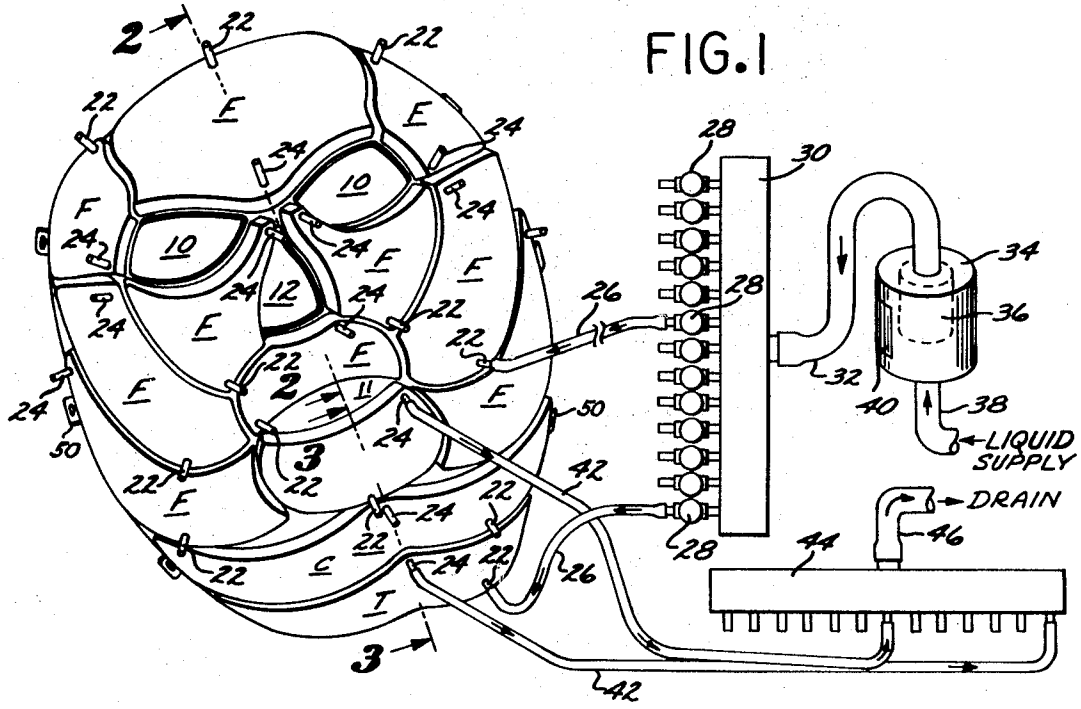


FIG. 2

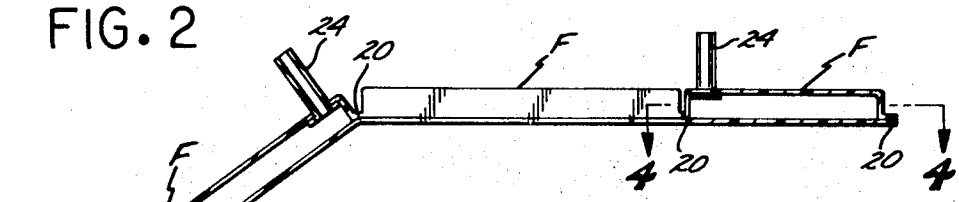


FIG. 3

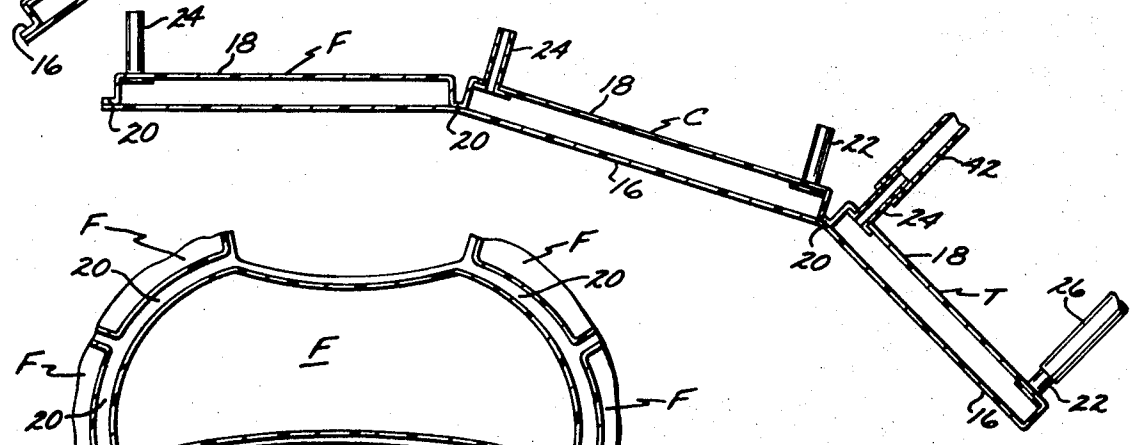


FIG. 4

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BEAUTY TREATMENT APPARATUS

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ABSTRACT OF THE DISCLOSURE

A plurality of pliable compartments so connected to one another that they may be disposed to conform generally to the contour of a user's face or other portion of the body, which compartments when so disposed are capable of having either a heated or cooled liquid selectively discharged to all or a portion thereof, whereby said heated or cooled liquid may raise or lower the temperature of that portion of the body covered by the compartments being treated for beauty or therapeutic purposes.

BACKGROUND OF THE INVENTION

Field of the invention

An apparatus for selectively raising or lowering the temperature of a selected portion of the user's body for beauty or therapeutic purposes.

Description of the prior art

By lowering the temperature of the face, chin, and throat tissues they may be stimulated to temporarily enhance the beauty of the user due to the effect on the bloodstream. Also, the application of heat to such tissues produces desirable results. Prior to the present invention there has been no lightweight, easily portable apparatus for selectively lowering or raising the temperature of a desired portion of the face, chin, or throat of a user, as well as other desired portions of the body.

A major object of the present invention is to provide a lightweight, easily portable apparatus of simple mechanical structure, which while primarily adapted for selectively subjecting desired portions of the face, chin, and throat of a user to a lower temperature, may also be used to elevate the temperature of the face, chin, and throat, and by altering the configuration of the apparatus, may also be employed to achieve the same results on other portions of the user's body.

SUMMARY OF THE INVENTION

The present invention includes a number of pliable compartments arranged in the form of a mask to which compartments valved liquid inlet conduits are connected, as well as liquid discharge conduits, and by manipulation of these valves when the mask is in position on a user's face, desired portions of the face may be heated or cooled by discharge of heated or cooled liquid into the compartments.

A major object of the invention is to provide a lightweight, easily portable apparatus for selectively cooling or heating a desired portion of the face, chin or throat of the user for beauty or therapeutic purposes.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a perspective view of the apparatus;

FIG. 2 is a fragmentary transverse cross-sectional view of the apparatus, taken on the line 2—2 of FIG. 1;

FIG. 3 is a second fragmentary transverse cross-sectional view of the apparatus, taken on the line 3—3 of FIG. 1; and

FIG. 4 is a cross-sectional view of the apparatus, taken on the line 4—4 of FIG. 2.

DESCRIPTION OF THE PREFERRED EMBODIMENT

The apparatus, as may best be seen in FIG. 1, includes a mask. The mask includes a number of compartments F that are freely movable relative to one another and overlie the face of a user (not shown). The compartments F are irregular in shape and are adapted to conform generally to a user's face.

The mask preferably includes at least one compartment C that is adapted to contact the user's chin (not shown). Also, the mask preferably includes at least one compartment T that is adapted to contact the user's throat (not shown). Compartments F cooperatively define two openings **10** for the eyes (not shown) of the user, as well as an opening **12** for the user's nose (not shown).

The compartments F, C and T are formed from a first pliable sheet **14**, together with a second pliable sheet **16** in which a number of cells **18** are formed that are separated from one another by narrow elongate strips **20**. The strips **20** are adhered to the sheet **14** by conventional means. Both sheets **14** and **16** are preferably formed from a plastic material. The cells **18** cooperate with the first sheet **14** to define the compartments F, C and T.

Each of the compartments F, C, and T is provided with a tubular liquid inlet **22** which communicates with the interior thereof, as well as a tubular liquid outlet **24**. The inlets **22** are so disposed as to be in communication with the lower interior portions of compartments F, C, and T when the mask is in position on the face (not shown), and the outlets **24** are in communication with the upper interior portions of the compartments.

The inlets **22** are connected to flexible conduits **26**, which in turn are connected to valves **28** that are in communication with a manifold **30**. Manifold **30** is connected by a conduit **32** to a container **34** in which a cartridge **36** of an endothermic material such as ammonium nitrate may be disposed that cools water as it dissolves therein. Water is supplied under pressure from a domestic source (not shown) through a conduit **38**. By manual manipulation of the valves **28**, all or any desired portion of the compartments F, C, or T may be supplied with cooled water to lower the temperature of the face, chin, or throat of the user (not shown). New cartridges **36** may be positioned in container **34** through an opening (not shown) that is closed by a door or sealing plate **40**.

After a compartment F, C, or T has been flooded with cooled water, excess water discharges therefrom through a conduit **42** that is connected to the outlet **24** associated therewith. The conduits **42** extend to a second manifold **44** that is connected by a conduit **46** to a drain (not shown).

In use, operation of the invention is most simple. The mask is placed over the user's face (not shown), and the valves **28** manipulated to discharge cooled water into the compartments F, C, and T that will cool all or a desired portion of the user's face, chin, or throat, with the treatment continuing as long as desired. After completion of the treatment, the mask may be separated from the conduits **26** and **42**, as the conduits **26** engage the inlets **22** and outlets **24** by a slip fit. The separated mask may then be cleaned and sterilized. The mask is again connected to the conduits **26** and **42** for future use. It will, of course, be apparent that instead of using cooled water, heated water may be discharged into the compartments F, C, and T.

Although the endothermic material has been described as being in cartridge form for ease in placing the same in the container **34**, it will be apparent that bulk material may be used for this purpose if desired. If preferable, an opening **11** may be provided in the mask which over-

lies the mouth (not shown) of the user. Also the mask may have tabs **50** formed as a part thereof, which by means of resilient bands (not shown) hold the mask in position on the user's face (not shown).

What is claimed is:

1. A beauty treatment apparatus for the face or a portion thereof, including:

(a) a first sheet of a pliable material of such size and shape as to cover a substantial portion of the user's face;

(b) a second preformed sheet of a pliable material in which a plurality of spaced inverted cells are defined, with said second sheet being so bonded to said first sheet that said cells and said first sheet cooperatively provide a plurality of spaced enclosed compartments that are hingedly movable relative to one another;

(c) a tubular liquid inlet in communication with the interior of each of said compartments;

(d) a tubular liquid discharge in communication with the interior of each of said compartments;

(e) a source of a refrigerated liquid;

(f) a plurality of manually operable valves connected to said source of liquid;

(g) a plurality of first pliable tubes connected to said valves and to said inlets, which valves control the flow of said refrigerated liquid to said compartments to permit all or a desired portion of a user's face to be subjected to a lowered temperature; and

(h) a plurality of second pliable tubes connected to said outlets and extending therefrom to a source where said refrigerated liquid may be disposed of as waste.

2. An apparatus as defined in claim **1** wherein said first and second sheets are of such configuration that openings for the user's eyes and nose are defined when said first and second sheets are bonded together.

3. An apparatus as defined in claim **1** wherein said compartments are of irregular shape, which shapes are so chosen as to conform as closely as possible to the contour of the user's face.

4. An apparatus as defined in claim **1** wherein said first and second tubes are removably connected to said tubular inlets and discharges to permit separation of said first and second sheets from said tubes for cleaning and sterilizing purposes.

5. An apparatus as defined in claim **1** which further includes:

(i) a manifold connected to said source of refrigerated liquid and to said valves.

6. An apparatus as defined in claim **1** wherein said source of refrigerated liquid comprises:

(i) a container connected to a source of domestic water and to said valves; and

(j) a body of soluble material in said container that dissolves in said water as it flows therethrough to said valves and refrigerates said water as a result of dissolving therein.

7. An apparatus as defined in claim **1** wherein said first and second sheets are of such shape and size that when bonded together said sheets cooperatively provide compartments which overlie the user's chin.

8. An apparatus as defined in claim **7** wherein said first and second sheets are of such shape and size when bonded together cooperatively provide compartments which overlie at least a portion of the user's neck.

9. An apparatus as defined in claim **1** wherein said compartments are separated by elongate areas of said first and second sheets that are in abutting contact and bonded together.

10. An apparatus as defined in claim **1** wherein said first and second sheets, which when bonded together cooperatively define a generally concave mask that overlies the face of the user.

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