United States Patent [19]

Zambelli

[11] **3,926,180**

[45] **Dec. 16, 1975**

[54] **VIBRO-MASSAGING APPARATUS**

[76] Inventor: **Claude Jean Virgile Zambelli,** 6, rue Cattulle Mendes, Paris, France, 75017

[22] Filed: **July 30, 1974**

[21] Appl. No.: **493,075**

[30] **Foreign Application Priority Data**

July 30, 1973 France 73.27853

[52] **U.S. Cl.** ..... **128/32;** 259/1 R

[51] **Int. Cl.²** **A61H 1/00**

[58] **Field of Search** ..... 128/32, 33, 41, 34–36, 128/24.2, 65, 66; 259/1 R, DIG. 41, DIG. 43; 310/50, 87

[56] **References Cited**

UNITED STATES PATENTS

2,625,152	1/1953	Frohring	128/41 X
2,779,328	1/1957	Grossi	128/41 X
2,920,618	1/1960	Oster	128/33
3,115,139	12/1963	Schneider	128/32 UX
3,351,539	11/1967	Branson	259/1 R
3,710,784	1/1973	Taylor	128/24.2

OTHER PUBLICATIONS

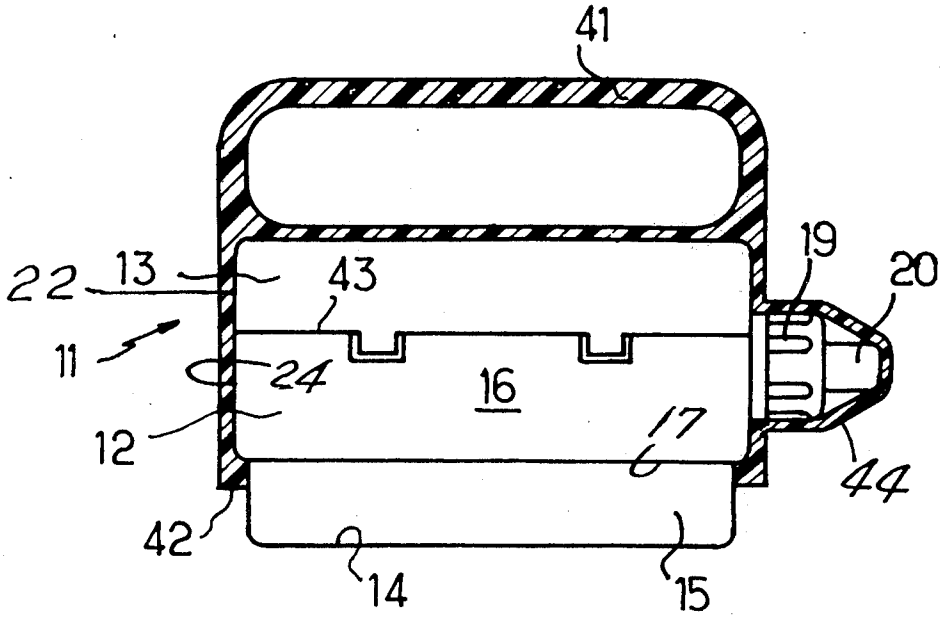
RAS Enterprises, Inc.–Received in P.O. 7–1–71.

Primary Examiner—Lawrence W. Trapp
Attorney, Agent, or Firm—Browdy and Neimark

[57] **ABSTRACT**

A vibro-massaging apparatus having a housing with a body and cover wrapped with an impermeable flexible casing suitable for covering the housing beyond the seal between the body and the cover proper, the junction between the casing and the body being watertight.

5 Claims, 4 Drawing Figures



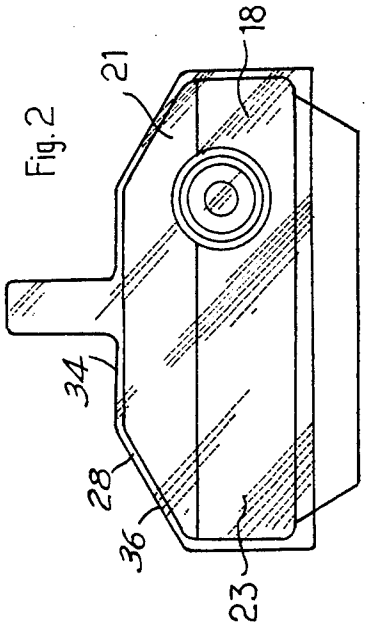


Fig. 2

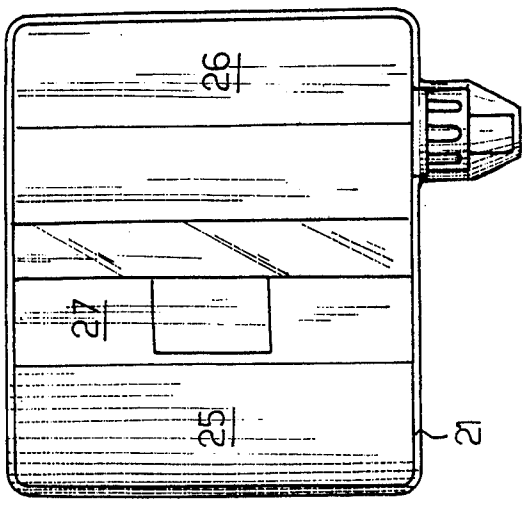


Fig. 4

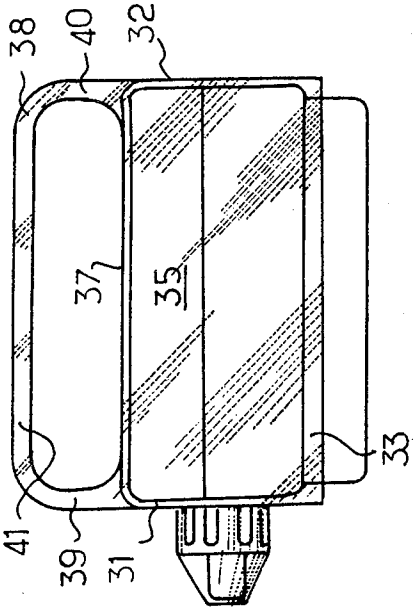


Fig. 3

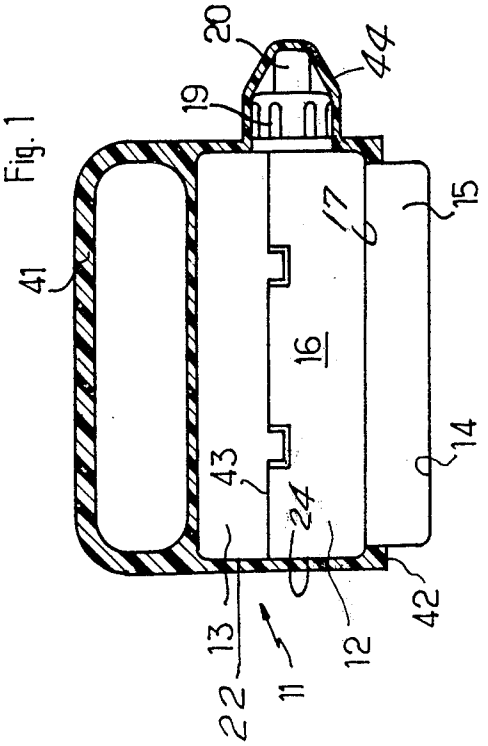


Fig. 1

VIBRO-MASSAGING APPARATUS

The invention relates to a vibro-massaging apparatus.

Vibro-massaging apparatus are known which are used for body massages, vibrations being produced by means of an electric motor incorporated in the apparatus.

The question comes up of using such a vibro-massager in a bath or under a shower or in sea water.

The solution which consists in making water-tight the various seals contained in the apparatus leads to a complex manufacture and high costs. As a matter of fact, such apparatus usually comprise a housing made of two parts, one of which is the main part or body whereas the other is the cover, and these parts should be easily and quickly separated for changing the batteries which supply power. Moreover, such apparatus comprise a control member, namely a switch-button, which is to be actuated from outside and therefore passes through the housing. Water-tightness of the cover and body assembly is not easily obtained and the same applies to the switch-button or the like traversing the parts.

The vibro-massager according to this invention is characterized in that it comprises a rubber or like material container which by cooperating with the body, preferably with a shoulder thereon, ensures by its mere positioning tightness of the seals with respect to the external medium.

The vibro-massager is made water-tight by a simple and economical means without modifying its general structure.

The following description refers to the attached drawing in which:

FIG. **1** is an elevational view partly in section of an apparatus according to the invention;

FIG. **2** is an elevational view at 90° from the first;

FIG. **3** is an elevational view of the apparatus, taken from the face opposite to that of FIG. **1**;

FIG. **4** is a plan view.

The vibro-massager comprises a parallelepipedic housing **11** made of a body **12** and a cover **13** connected by merely nesting one into the other; in the housing is located the electric motor and the batteries for supplying power to the motor: the face **14** of body **12** is provided for engagement with the part of the human body which is to be massaged.

The body itself is made of two parts: a part **15** comprising face **14** and an adjacent part **16** of larger cross-section than part **15** and connected to the latter by a shoulder **17.**

An electric switch **19** with a push-button **20** projects from the lateral face of part **16** of body **12.**

The cover **13** has vertical faces **21** and **22** extending from the vertical faces **23** and **24** of body **16,** inclined

faces **25** and **26** and an upper face **27** parallel to face **14.**

A rubber or like material container or wrapping **28** extends over part **16** of the body and cover **13.** It has parallel side faces **31, 32,** parallel faces **33** and **34** perpendicular to the first ones, inclined faces **35** and **36** and an upper face **37.** The latter is connected to a handle **38** with two branches **39** and **40** and a handle bar **41.** The container is formed with an aperture bordered with a roll **42,** and an appendix **44,** the shape of which matches that of the switch **19.**

When the housing **12** is covered by container **28** and the roll thereof is tightly applied to under the shoulder **17,** part **16** of the housing, the cover **13,** as well as switch **19** are sealed from the outside and water-tight, so that the so equipped apparatus can be immersed in water without there being any risk of water penetration into the housing **11** either through the seal **43** between the body **12** and the cover **13** or through a traversing hole of the push-button switch **19,20.**

The flexibility of the rubber sheet of which the housing is made enables the pushing of the button **20** by pressing on the appendix **44.** The impermeable container is conformed in accordance with the shape of the housing which can be cylindrical or of any other shape.

I claim:

1. A vibro-massaging apparatus comprising:

a housing consisting of a body and a cover, said body and said cover joined together by a seal, said body including a massaging face and a shoulder located between said seal of said body and said cover; and

an impermeable flexible casing covering said housing beyond said seal between said body and said cover, said casing having a roll bordering an aperture of said casing which cooperates with said shoulder and having a junction between said casing and said body which is water-tight.

2. A vibro-massager according to claim **1,** comprising an electrical switch projecting from the body, characterized in that the casing delimits a lodging for the switch.

3. A vibro-massaging apparatus comprising:

a housing consisting of a body and a cover, said body and said cover joined together by a seal, said body including a massaging face;

an impermeable flexible casing covering said housing beyond said seal between said body and said cover and having a junction between said casing and said body which is water tight; and

an electrical switch projecting from said body wherein said casing delimits a lodging for said switch.

4. A vibro-massaging apparatus according to claim **3** further including a handle depending from said casing.

5. A vibro-massaging apparatus according to claim **1** further including a handle depending from said casing.

* * * * *