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(51) INT CL[7]:
A61H 19/00

(52) UK CL (Edition X):
A5R REQ

(56) Documents Cited:
EP 1308145 A **WO 2003/037242 A**
DE 020317101 A **DE 020311823 A**

(58) Field of Search:
UK CL (Edition W) **A5R**
INT CL[7] **A61F, A61H**
Other: **JAPIO, WPI, EPODOC**

(54) Abstract Title: **Electric condom ring**

(57) An electric condom ring comprises a cover ring 100 and a vibrating device 200, wherein the cover ring 100 has a sleeve 102 into which the vibrating device 200 can be inserted. The vibrating device 200 comprises a small-scale motor 201 and a battery 202. A conductive spring plate 203 is contained within the vibrating device 200, one end of the conductive plate 203 is connected to the battery 202 and the other end extends over an insulation plate 204, so that the plate 203 is not in contact with the motor 201. The insulation plate 204 is connected to a push rod 2041. When the push rod 2041 is pushed inwards towards the centre of the vibrating device 200, the insulation plate 204 moves away from the conductive spring plate 203, allowing contact with the outer casing of the motor 201, thus causing the device to vibrate. The cover ring 100 may have indentations 1011 formed on both sides thereof and a plurality of grooves 1012 may be formed on the inside of the ring to prevent slipping of the ring.

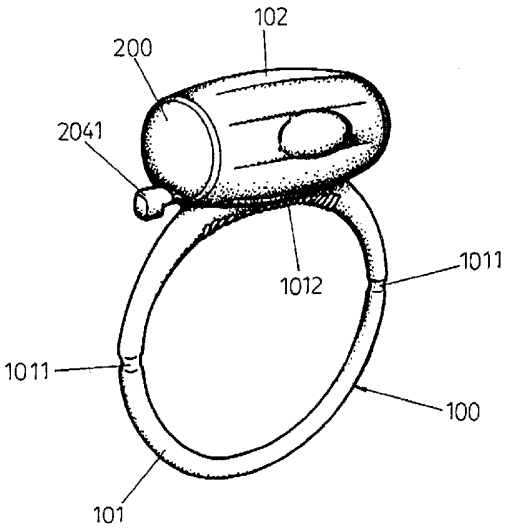

FIG.1

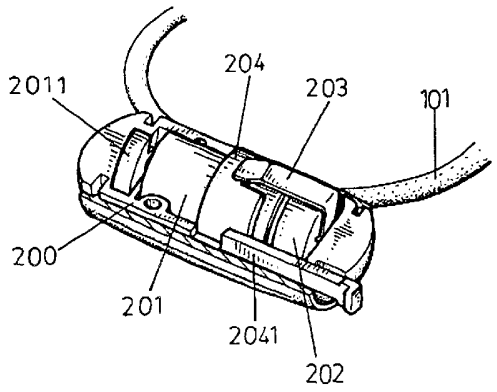

FIG.3

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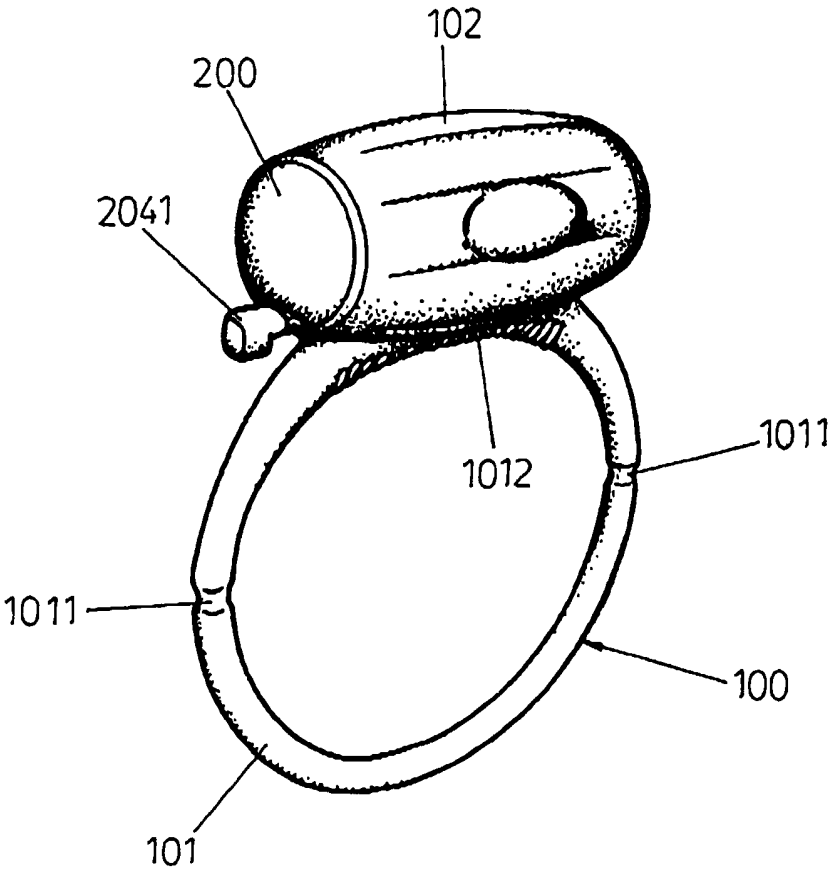

FIG.1

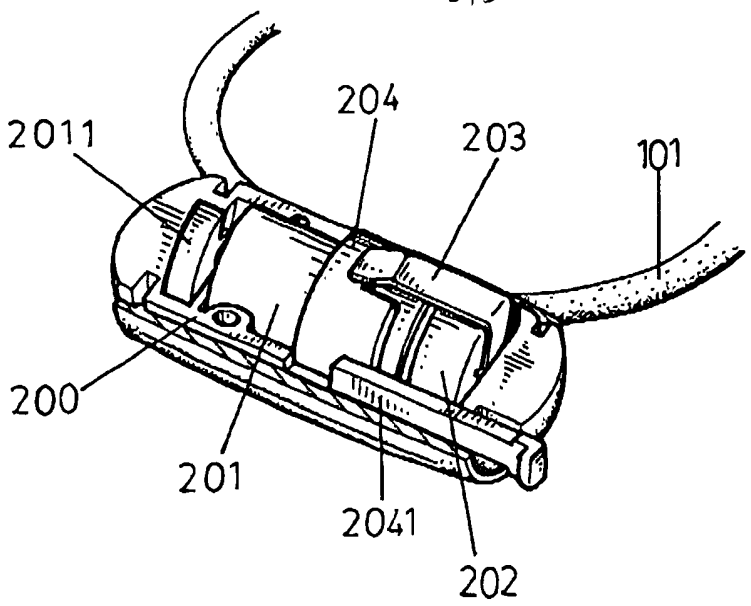
2011
204
203
101
200
201
2041
202

FIG.3

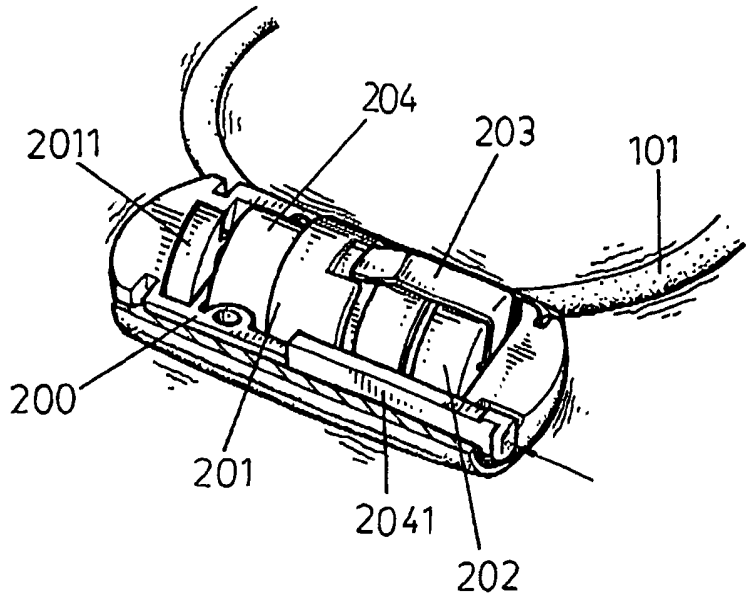
2011
204
203
101
200
201
2041
202

FIG.4

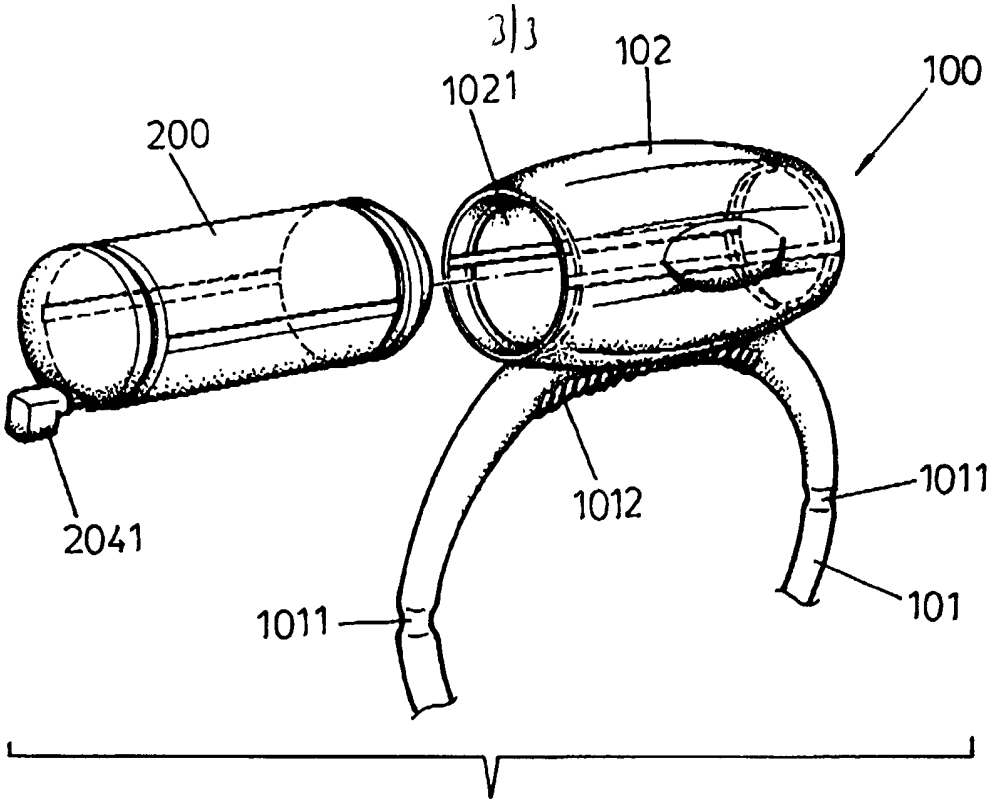
102
1021
100
200
2041
1012
1011
101
1011

FIG.2

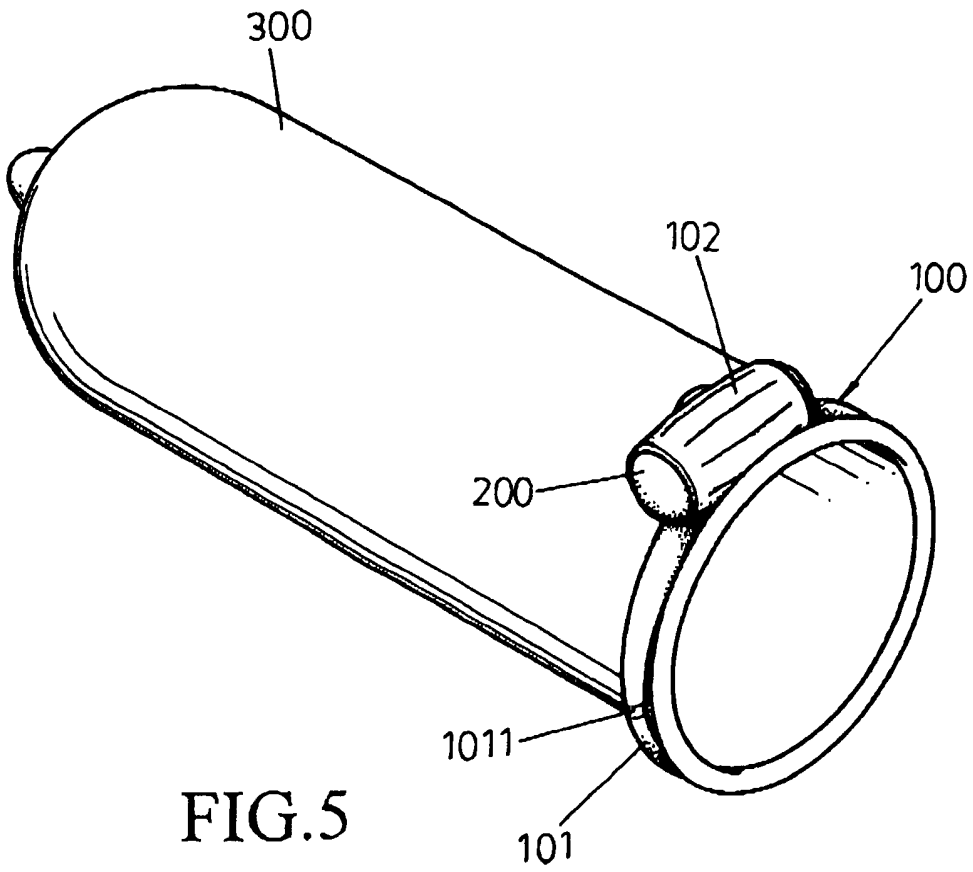
300
102
100
200
1011
101

FIG.5

ELECTRIC CONDOM RING

BACKGROUND OF THE INVENTION

(a) Field of the Invention

The present invention relates to a cover ring used on a condom, particularly to a cover ring disposed with a vibrating device, wherein a small-scale motor and a battery is assembled therein. By pushing an insulation plate inward, causing a conductive spring plate to come into contact with an outer casing of the small-scale motor, the electric condom ring not only provides sexual pleasure, but also encourages the use of condoms among opposite sex.

SUMMARY OF THE INVENTION

The objective of the present invention is to provide an electrical condom ring, consisting of a cover ring and a vibrating device, wherein the vibrating device has a small-scale motor, a battery and a conductive spring plate assembled therein. When the condom ring is inserted onto a condom, by pushing a insulation plate inward, the conductive spring plate comes into contact with an outer casing of the motor, thereby activating the power thereafter, and achieving vibration of the electric condom ring.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG.1 shows a perspective schematic view according to the present invention.

FIG.2 shows an exploded schematic view according to the present invention.

FIG.3 shows a cross-sectional schematic view according to the present invention.

FIG.4 shows a cross-sectional schematic view with vibrating movement according to the present invention.

FIG.5 shows a perspective schematic view according to the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

To better understand the present invention, detailed descriptions shall be given with the accompany drawings hereunder.

Referring to FIG.1 and FIG.2, the invention provides a cover ring 100 and vibrating device 200, wherein the cover ring 100 consists of a ring body 101 and a sleeve 102. The ring body 101 can be fitted over a condom 300, whereas the vibrating device 200 is disposed into a hollow inserting aperture 1021 of the sleeve 102 therein. Referring to FIG. 3, the vibrating device 200 consists of a small-scale motor 201, a battery 202 and a conductive spring plate 203 etc., wherein a rotator 2011 mounted at a front end of the small-scale motor 201 is eccentric and provides vibration when rotating. A rear end of the small-scale motor 201 (negative pole) is in contact with a positive pole of the battery 202 and one end of the conductive spring plate 203 is connected to a negative pole, whereas the other end of the conductive spring plate 203 extends above an insulation plate 204 not yet in contact with the small-scale motor 201 (shown in FIG. 3). When a rod 2041 on one end of the insulation plate 204 is pushed inward, the insulation plate 204 is pushed away from the conductive spring plate 203 (shown in FIG. 4), causing the inward bent conductive spring plate 203 to come in contact with an outer casing of the small-scale motor

201 (positive pole), thereby activating the vibrating mechanism of the cover ring 100.

The ring body 101 of the cover ring 100 includes indentures 1011 formed on both sides, whereby increasing flexibility of the ring body 100, additionally, a plurality of skid proof granule 1012 are formed on an inner side of the ring body 101.

Referring to FIG. 5, the cover ring 100 can normally be used directly on a penis, but can also be used with a condom 300.

In conclusion, the insulation plate 204 on one side of the vibrating device 200 is to prevent contact between the conductive spring plate 203 and the small-scale motor 201 when the cover ring 100 is off, but as a user pushes the rod 2041 on one side of the insulation plate 204, causing the conductive spring plate 203 to come into contact with the small-scale motor 201, thereby enabling the cover ring 100 on the condom 300 to vibrate.

It is of course to be understood that the embodiments described herein is merely illustrative of the principles of the invention and that a wide variety of modifications thereto may be effected by persons skilled in the art without departing from the spirit and scope of the invention as set forth in the following claims.

WHAT IS CLAIMED IS:

1. An electrical condom ring comprising a cover ring and a vibrating device, wherein the cover ring further comprising a ring body and a sleeve; the ring body is fitted over a condom, whereas the vibrating device is disposed into a hollow inserting aperture of the sleeve therein, the vibrating device further comprising a small-scale motor, a battery, a conductive spring plate and an insulation plate and an insulation plate, wherein the small-scale motor having a rotator mounted at a front end thereof; the rotator is eccentric and provides vibration when rotating; a rear end of the small-scale motor is in contact with a pole of the battery and one end of the conductive spring plate is connected to the other pole of the battery, whereas the other end of the conductive spring plate extends above the insulation plate not yet in contact with the small-scale motor; when pushing inward a rod on one end of the insulation plate, the insulation plate is pushed away from the conductive spring plate, causing the conductive spring plate to come in contact with the small-scale motor, thereby activating the vibrating device disposed with the cover ring.

2. The electrical condom ring as recited in claim 1, wherein the cover ring having indentures formed on both sides and thereof a plurality of skid proof granule are formed on an inner side thereof.

Amendments to the claims have been filed as follows

CLAIMS:

1. An electrical condom ring comprising a cover ring and a vibrating device, wherein the cover ring further comprising a ring body and a sleeve; the ring body is fitted over a condom, whereas the vibrating device is disposed into a hollow inserting aperture of the sleeve therein; the vibrating device further comprising a small-scale motor, a battery, a conductive spring plate and an insulation plate, wherein the small-scale motor having a rotator mounted at a front end thereof; the rotator is eccentric and provides vibration when rotating; a rear end of the small-scale motor is in contact with a pole of the battery and one end of the conductive spring plate is connected to the other pole of the battery, whereas the other end of the conductive spring plate extends above the insulation plate not yet in contact with the small-scale motor; when pushing inward a rod on one end of the insulation plate, the insulation plate is pushed away from the conductive spring plate, causing the conductive spring plate to contact the small-scale motor, thereby activating the vibrating device disposed with the cover ring, wherein the cover ring having indentations formed on both sides thereof and a plurality of anti-slip pieces are formed on an inner side thereof.

2. An electrical condom ring substantially as herein described, with reference to, or as shown in, the accompanying drawings.

INVESTOR IN PEOPLE

Application No:	GB0412991.2	**Examiner:**	Hayley Yates
Claims searched:	1-2	**Date of search:**	30 September 2004

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1	DE20317101 A Lin; see abstract translation and figures 2 and 3
A	1	DE20311823 A Lin; see abstract translation and figure 1
A	1	EP1308145 A Jex Co. Ltd; see figures 1 and 2
A	1	WO03/037242 A Dorn; see figure 1

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC[W] :

A5R

Worldwide search of patent documents classified in the following areas of the IPC[07]

A61F; A61H

The following online and other databases have been used in the preparation of this search report

JAPIO, WPI, EPODOC