

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 736 130 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:

27.12.2006 Bulletin 2006/52

(51) Int Cl.:

A61H 7/00 (2006.01)

A61H 23/02 (2006.01)

(21) Application number: **06380101.3**

(22) Date of filing: **03.05.2006**

(84) Designated Contracting States:

**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**

Designated Extension States:

AL BA HR MK YU

(71) Applicant: **Galvez, Aristonico Casas**
28600 Navalcarnero, Madrid (ES)

(72) Inventor: **Galvez, Aristonico Casas**
28600 Navalcarnero, Madrid (ES)

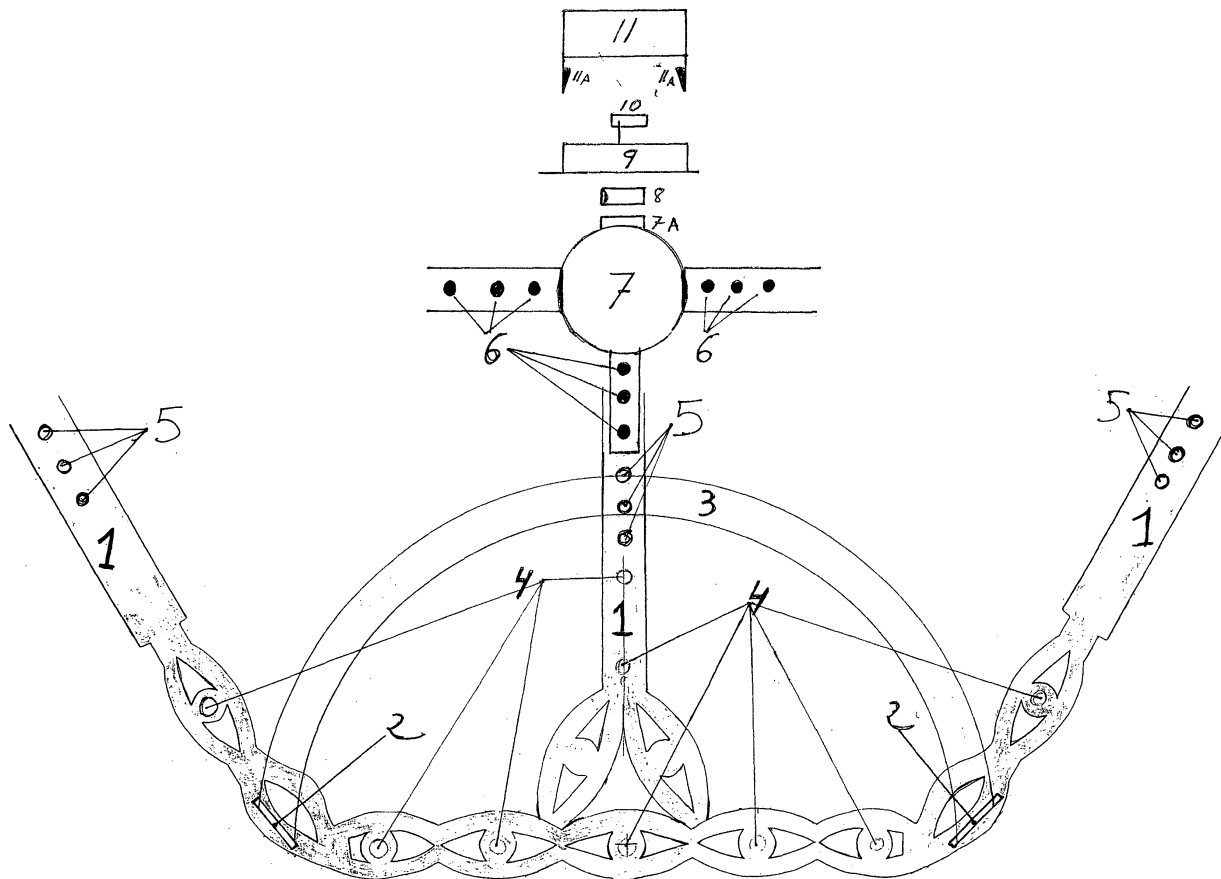
(30) Priority: **06.05.2005 ES 200501089**

21.02.2006 ES 200600410

(54) **Vibrating diadem or cap for reactivating the blood circulation in the scalp**

(57) Diadem made from polipropileno, poliuretano or whatever other plastic or metal material that can be adjusted from the point where the hair starts to the crown, by means of a polipropileno, poliuretano, elastic, plastic,

metal etc. strap, and which creates a vibration produced by an electric motor with an eccentric shaft, situated at the highest and most central point of the crown, which, in turn, simulates a massage.



EP 1 736 130 A1

Description**Technical sector**

[0001] The invention is included in the sector of portable electrical domestic appliances for personal care.

Technical conditions

[0002] At the moment, in the sector of electrical domestic appliances for massaging the scalp, there is a patented pneumatic helmet and vibrating harness. The vibrating belt is the device that is most similar to the diadem, and this is also my own invention, and is also patented in my name. To this patent, I want to include the diadem.

The advantages of the invention

[0003] To the above patent, No. P-200501089, dated 6th May 2005, 11: 19hrs and **ADMITIDA A TRAMITE**, I introduce several significant improvements: first of all the plastic materials. We have used polipropileno, although the diadem could also be made from poliuretano, ABS, and other kinds of plastics or metals. One improvement is that the material does not conduct electricity, eliminating electrical current and electromagnetic radiation, which would otherwise be in direct contact with the head. The design is much simpler and lighter without detracting from the efficiency of the massage. Thus it results in an improved version (of its predecessor). If the fundamental aesthetic improvements are added to this, the advantages are unquestionable.

Detailed description of the invention

[0004] The invention is a diadem that goes around the head from the point where the hair starts to the crown. The device is made up of a box that contains a motor with an eccentric shaft and its plug, which once connected to an electrical current turns on an uneven axis, because of the eccentric shaft. Thus it vibrates, and the whole structure vibrates with it. These vibrations bring about a massage of the scalp due to the fact that diadem is in direct contact with the scalp via suction cups and is secured by a fastening belt, whether elastic or not. The small electric motor is powered either by batteries and/or connection to the mains.

The method by which the invention is made

[0005] The device has been shaped from a piece of polipropileno with a thickness of 2 mm, as described previously. The end parts of the device are joined in a box made of the same material and which houses a small electric motor with an eccentric shaft. It has eight supporting points, each with a suction cup, and a strap has been added so that the device can be attached to the

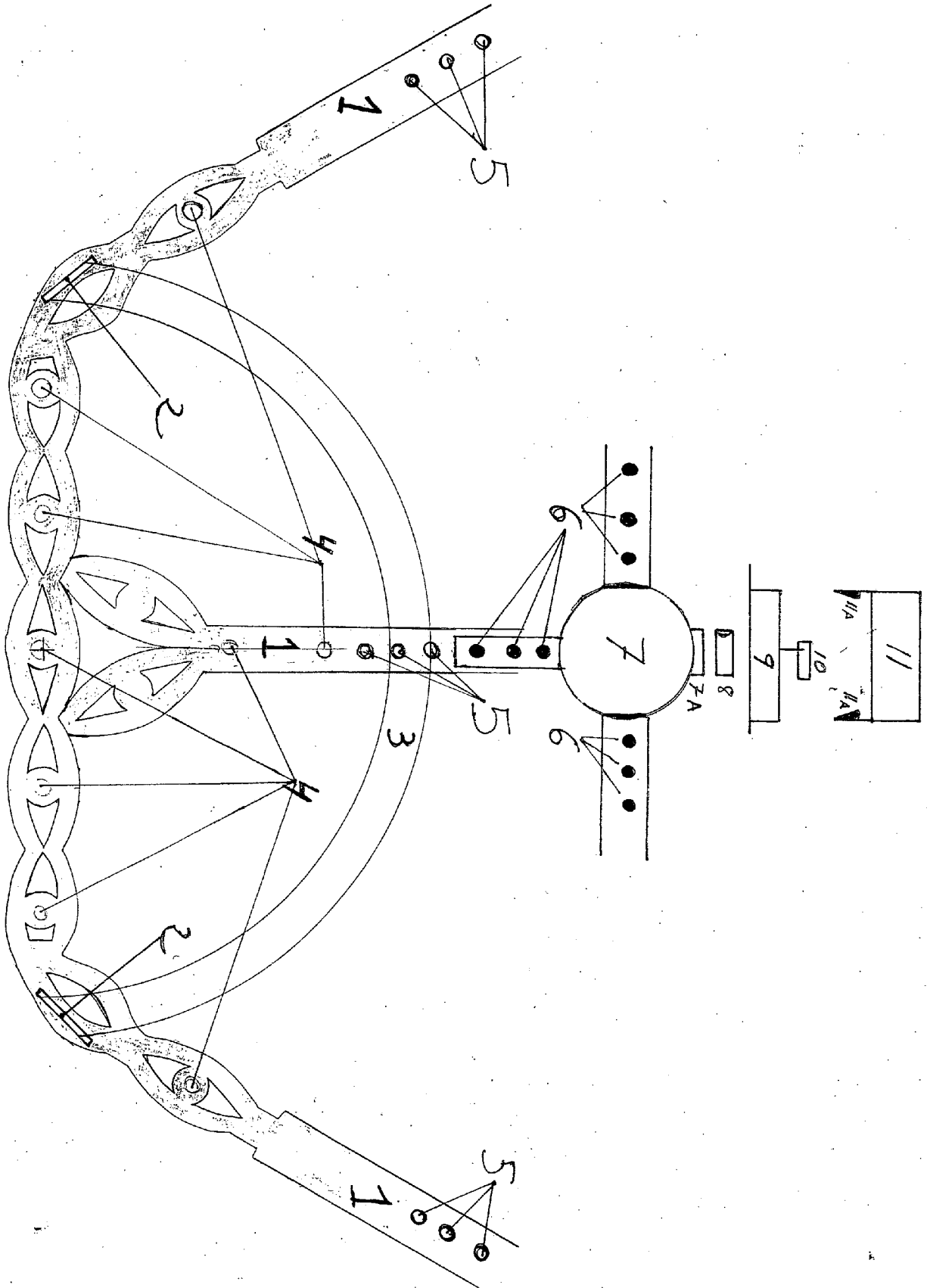
back of the neck. Its industrial manufacture requires moulds (into which whatever material is used has to be injected) to make the structure. Criss-cross strips have to be added, either to cover the whole head or part of the head, in order to get a helmet or vibrating (skull)cap respectively.

Details of the diagram**[0006]**

- 1 Diadem o harness.
2. Notch for fastening belt.
3. Fastening belt.
4. Holes for suction cups.
5. Holes for adjusting the size.
6. Clips for adjusting the size.
7. Box which houses the motor.
- 7A. Box which houses the plug.
8. Plug.
9. Motor.
10. Excentric shaft.
11. Cover of the shaft and motor.
- 11A. Clips de 11.

Claims

1. Vibrating harness for reactivating the circulation of the blood in the scalp by means of the vibrations produced by an electric motor with an eccentric shaft.
2. Vibrating diadem for reactivating the circulation of the blood in the scalp by means of the vibrations produced by an electric motor with an eccentric shaft.
3. Vibrating helmet for reactivating the circulation of the blood in the scalp by means of the vibrations produced by an electric motor with an eccentric shaft. (If we cover the whole head with criss-cross strips).
4. Vibrating (skull)cap for reactivating the circulation of the blood in the scalp by means of the vibrations produced by an electric motor with an eccentric shaft. (If we cover part of the head with criss-cross strips).
5. Vibrating headdress for reactivating the circulation of the blood in the scalp by means of the vibrations produced by an electric motor with an eccentric shaft. (If we cover any of the previous choices with any garment that covers or fits the head: a visor, a beret, a cap, a hat, etc....)





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 38 0101

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 4 697 580 A (TERAUCHI RYUGO [JP]) 6 October 1987 (1987-10-06) * column 1 - column 3, line 12; figures 1-3 *	1-5	INV. A61H7/00 A61H23/02
X	FR 1 169 266 A (FRANCESCO ANTOINE DE) 24 December 1958 (1958-12-24) * page 1 - page 2; figures 1,2 *	1-5	
X	US 5 486 156 A (TAKACH STEPHEN J [US]) 23 January 1996 (1996-01-23) * column 2, line 25 - column 5, line 22; figures 1-6 *	1-5	
X	GB 2 246 074 A (HANSEN CARLOS FLORENCIO GUILLE HANSEN CARLOS FLORENCIO GUILLE [AR]) 22 January 1992 (1992-01-22) * page 1 - page 4; figures 1-3 *	1-5	
X	WO 02/091984 A (JEONG DONG-MYONG [KR]) 21 November 2002 (2002-11-21) * page 2 - page 10; figures 4,5 *	1,2,5	TECHNICAL FIELDS SEARCHED (IPC)
X	US 6 228 041 B1 (AMEER MARK J [US]) 8 May 2001 (2001-05-08) * column 2, line 56 - column 4, line 9; figures 1-4 *	1-5	A61H
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 1 November 2006	Examiner Oelschläger, Holger
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

3
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 38 0101

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-11-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4697580	A	06-10-1987	NONE	
FR 1169266	A	24-12-1958	NONE	
US 5486156	A	23-01-1996	WO 9635405 A1	14-11-1996
GB 2246074	A	22-01-1992	BR 9103090 A	11-02-1992
			CA 2047334 A1	20-01-1992
			DE 4123568 A1	23-01-1992
			ES 2049130 A1	01-04-1994
			FR 2664811 A1	24-01-1992
			IT 1251814 B	26-05-1995
			US 5188097 A	23-02-1993
WO 02091984	A	21-11-2002	KR 2001069869 A	25-07-2001
US 6228041	B1	08-05-2001	NONE	

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- WO P200501089 A [0003]