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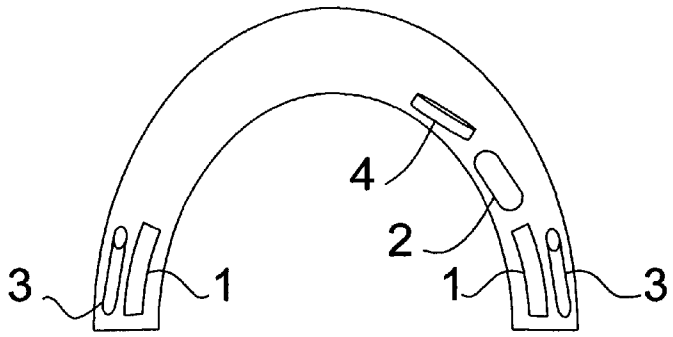
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**Declaration under Rule 4.17:**
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

**Published:**
— *with international search report*

*[Continued on next page]*

(54) Title: PARAFUNCTIONAL CONDITIONING OCCLUSAL MOUTH GUARD




(57) Abstract: Parafunctional conditioniing occlusal mouth guard comprising a device shaped As a top or bottom dental arch, following the parameter used in dental mouldings, intended to condition patients who suffer "bruxism syndrome", by means of the biofeedback technique, not to clench and/or grind their teeth in times of stress, and when sleeping. The device is manufactured of silicone or another resilient material, which allows its deformation when subjected to pressures by teeth adverse to the material, and having sensors (1), control circuit (2), feeding battery (4) and vibration motors (3) intended to produce uncomfortable vibration every time the user tries to grind his teeth. All said components are inlaid in the mouth guard's material that, as it is insulating, avoids any risk of chock to the patient.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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# INTERNATIONAL SEARCH REPORT

International application No.
PCT/BR 2007/000317

A. CLASSIFICATION OF SUBJECT MATTER

IPC[8]: ***A61F 5/56*** (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC[8]: A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| X | WO 2000/044284 A2 (HINTERMISTER) 3 August 2000 (03.08.2000)<br>*figures 1a,1b; page 2, lines 2-18; page 7, line 15 to page 8, line 6; page 8 lines 14-19; page 10, line 25 to page 11 line 2; claims 1 to 5* | 1-13,15-19 |
| Y | | 14 |
| | -- | |
| X | US 4979516 A1 (ABRAHAM) 25 December 1990 (25.12.1990)<br>*figures 1,2,5,6; column 1, line 65 to column 2, line 8; column 2, lines 37-42; column 2, lines 48-50; column 2, lines 58-65; column 4, lines 37-48* | 1-7,11,15,16, 18,19 |
| | -- | |

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

| Date of the actual completion of the international search | Date of mailing of the international search report |
|---|---|
| 20 May 2008 (20.05.2008) | 11 June 2008 (11.06.2008) |
| Name and mailing address of the ISA/ AT<br>**Austrian Patent Office**<br>Dresdner Straße 87, A-1200 Vienna<br>Facsimile No. +43 / 1 / 534 24 / 535 | Authorized officer<br>HOLZMANN A.<br>Telephone No. +43 / 1 / 534 24 / 322 |

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## Continuation of first sheet

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| Y | US 5490520 A1 (SCHAEFER ET AL.) 13 February 1996 (13.02.1996) | 14 |
| A | *figures 1-3; claim 1; column 2, line 64 to column 3, line 4* | 1-3,7,15,16 |

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/BR 2007/000317

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---|---|---|
| WO A 2004044284 | | US A1 2006208390 | 2006-09-21 |
| | | ZA A 200503639 | 2006-07-26 |
| | | KR A 20050059334 | 2005-06-17 |
| | | MX A PA05004907 | 2005-07-22 |
| | | RU C2 2321690 | 2008-04-10 |
| | | JP T 2006505706T | 2006-02-16 |
| US A 4979516 | | US A 4979516 | 1990-12-25 |
| US A 5490520 | | US A 5490520 | 1996-02-13 |