

Title (en)

Oral hygiene device, in particular toothbrush

Title (de)

Mundhygienegerät, insbesondere Zahnbürste

Title (fr)

Appareil d'hygiène buccale, en particulier brosse à dents

Publication

EP 2700332 A3 20150429 (DE)

Application

EP 13005479 A 20110204

Priority

- EP 10001977 A 20100226
- EP 11702943 A 20110204
- EP 13005479 A 20110204

Abstract (en)

[origin: EP2361528A1] The device has a device body (10) comprising a head part defining a usage side, and a neck part supporting the head part or attached to the head part. A snap-action disk (36) is arranged at the neck part to generate an audible warning signal when a bending limit of the neck part is exceeded as a result of pressing force limit in a direction against the usage side of the head part. The neck part comprises a cavity (82), which is closed off from the surrounding area. The snap-action disk is arranged in the cavity. The device body comprises a support part (26) made of hard components. An independent claim is also included for a method for manufacturing an oral hygiene device i.e. toothbrush.

IPC 8 full level

A46B 15/00 (2006.01); **A46B 5/00** (2006.01); **A61C 17/22** (2006.01)

CPC (source: EP US)

A46B 5/0062 (2013.01 - EP US); **A46B 5/007** (2013.01 - EP US); **A46B 15/0002** (2013.01 - EP US); **A46B 15/0012** (2013.01 - EP US); **A46B 15/004** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US)

Citation (search report)

- [AD] DE 9310112 U1 19940609 - HOFFMANN KAY DR [DE]
- [A] EP 0281017 A1 19880907 - BLENDAX WERKE SCHNEIDER CO [DE]
- [A] FR 2751185 A1 19980123 - POIROT FREDERIC [FR]
- [A] US 5331707 A 19940726 - IRIZARRY JOSEPH [US]
- [A] JP H07236519 A 19950912 - CHIYODA YOSHIO

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2361528 A1 20110831; EP 2538817 A1 20130102; EP 2538817 B1 20131218; EP 2700332 A2 20140226; EP 2700332 A3 20150429; ES 2445795 T3 20140305; TW 201138673 A 20111116; TW I517804 B 20160121; US 2012284944 A1 20121115; US 8973202 B2 20150310; WO 2011103962 A1 20110901

DOCDB simple family (application)

EP 10001977 A 20100226; EP 11702943 A 20110204; EP 13005479 A 20110204; EP 2011000533 W 20110204; ES 11702943 T 20110204; TW 100104597 A 20110211; US 201113518953 A 20110204