

Title (en)

Undriven dental cleaning device with at least one brush

Title (de)

Zahnreinigungsgerät ohne Antrieb mit wenigstens einer Bürste

Title (fr)

Dispositif de nettoyage des dents sans entraînement avec au moins une brosse

Publication

**EP 1174053 A3 20031015 (DE)**

Application

**EP 01116472 A 20010707**

Priority

DE 10033605 A 20000711

Abstract (en)

[origin: EP1174053A2] The toothbrush has a brush (3) with bristles (4) fixed by a turned or twisted holding wire (5). The brush itself is mounted rotatable about its central axis relative to the handle (2). The brush has at its part engaging in the handle a circular section bearing (5a) axially fixed in a recess (6) in the handle and with so much play in the cross direction that the bearing can rotate in the recess with less force than is required to turn the twisted wire (5).

IPC 1-7

**A46B 7/10**; **A46B 5/00**; **A46B 3/18**

IPC 8 full level

**A46B 3/18** (2006.01); **A46B 7/10** (2006.01)

CPC (source: EP)

**A46B 3/18** (2013.01); **A46B 7/10** (2013.01)

Citation (search report)

- [X] US 3939520 A 19760224 - AXELSSON PER AXEL TORBJORN
- [X] US 5394584 A 19950307 - BREITSCHMID UELI [CH]
- [X] EP 0311937 A1 19890419 - BUTLER JOHN O CO [US]
- [A] DE 20002376 U1 20000518 - HEIN WOLFRAM [DE]
- [A] US 4449933 A 19840522 - FORNI WILLIAM J [US]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1174053 A2 20020123**; **EP 1174053 A3 20031015**; DE 10033605 C1 20020307

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**EP 01116472 A 20010707**; DE 10033605 A 20000711