

Title (en)
TOOTHBRUSH WITH ECCENTRIC DRIVE

Title (de)
ZAHNBÜRSTE MIT EXZENTERANTRIEB

Title (fr)
BROSSE A DENTS A ENTRAINEMENT EXCENTRIQUE

Publication
EP 1200007 A1 20020502 (DE)

Application
EP 00951455 A 20000727

Priority
• DE 19934805 A 19990728
• DE 29914615 U 19990820
• DE 19956689 A 19991125
• EP 0007212 W 20000727

Abstract (en)
[origin: WO0106947A1] The invention relates to a toothbrush with a brush head (12) that is supported by a brush body (10) and that is provided with a bristle support (20) that receives the bristles. Said bristle support is rotatably mounted around an axis of rotation (R) and is reversibly driven by an eccentric drive (40, 50, 52). Said eccentric drive (40, 50, 52) is provided with a drive shaft (50) that rotates in one direction. Said shaft is mounted orthogonally to the axis of rotation (R) of the bristle support (20) and extends through the center of the brush body (10). At the front face thereof, an eccentric pin (52) is located. The bristle support (20) is provided with a guide bore or a guide groove (32) that extends in the axial direction and that guides the eccentric pin (52). The bristle support is mounted in the brush head (12) so that it can be axially displaced and is driven on the eccentric drive (40, 50, 52) so as to reversibly reciprocate.

IPC 1-7
A61C 17/34; A61C 17/26

IPC 8 full level
A61C 17/00 (2006.01); **A61C 17/26** (2006.01); **A61C 17/22** (2006.01); **A61C 17/34** (2006.01); **A61C 17/40** (2006.01); **F16C 11/06** (2006.01); **F16H 21/14** (2006.01)

CPC (source: EP)
A61C 17/26 (2013.01); **A61C 17/3436** (2013.01); **A61C 17/3472** (2013.01); **A61C 17/40** (2013.01); **A61C 17/3418** (2013.01); **A61C 17/3463** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0106947 A1 20010201; AP 2002002403 A0 20020331; AP 2002002422 A0 20020331; AR 027180 A1 20030319; AT E289496 T1 20050315; AU 6438400 A 20010213; AU 6829800 A 20010213; BG 106265 A 20020830; BG 106357 A 20020930; BR 0012803 A 20020507; BR 0013181 A 20020402; CA 2377053 A1 20010201; CA 2391338 A1 20010201; CN 1364067 A 20020814; CN 1371262 A 20020925; CZ 2002293 A3 20020612; CZ 2002316 A3 20020612; DE 50009595 D1 20050331; EA 003018 B1 20021226; EA 003107 B1 20030227; EA 200200083 A1 20020627; EA 200200140 A1 20020627; EE 200200024 A 20030415; EE 200200047 A 20030415; EP 1200007 A1 20020502; EP 1200008 A1 20020502; EP 1200008 B1 20050223; ES 2233428 T3 20050616; HU P0201921 A2 20021028; HU P0201985 A2 20021028; IL 147653 A0 20020814; IL 147846 A0 20020814; IS 6214 A 20011224; IS 6247 A 20020125; JP 2003505142 A 20030212; JP 2004500157 A 20040108; JP 3463248 B2 20031105; MX PA02000968 A 20040405; NO 20020332 D0 20020122; NO 20020332 L 20020122; NO 20020405 D0 20020125; NO 20020405 L 20020319; NZ 516663 A 20030530; OA 11888 A 20060328; OA 11889 A 20060328; PL 352038 A1 20030728; PL 354713 A1 20040209; SK 1092002 A3 20020509; SK 1432002 A3 20020604; TR 200200202 T2 20020923; TR 200200580 T2 20021021; WO 0106946 A1 20010201

DOCDB simple family (application)
EP 0007213 W 20000727; AP 2002002403 A 20000727; AP 2002002422 A 20000727; AR P000103850 A 20000725; AT 00956308 T 20000727; AU 6438400 A 20000727; AU 6829800 A 20000727; BG 10626501 A 20011221; BG 10635702 A 20020128; BR 0012803 A 20000727; BR 0013181 A 20000727; CA 2377053 A 20000727; CA 2391338 A 20000727; CN 00810837 A 20000727; CN 00812285 A 20000727; CZ 2002293 A 20000727; CZ 2002316 A 20000727; DE 50009595 T 20000727; EA 200200083 A 20000727; EA 200200140 A 20000727; EE P200200024 A 20000727; EE P200200047 A 20000727; EP 0007212 W 20000727; EP 00951455 A 20000727; EP 00956308 A 20000727; ES 00956308 T 20000727; HU P0201921 A 20000727; HU P0201985 A 20000727; IL 14765300 A 20000727; IL 14784600 A 20000727; IS 6214 A 20011224; IS 6247 A 20020125; JP 2001511840 A 20000727; JP 2001511841 A 20000727; MX PA02000968 A 20000727; NO 20020332 A 20020122; NO 20020405 A 20020125; NZ 51666300 A 20000727; OA 1200200026 A 20000727; OA 1200200027 A 20000727; PL 35203800 A 20000727; PL 35471300 A 20000727; SK 1092002 A 20000727; SK 1432002 A 20000727; TR 200200202 T 20000727; TR 200200580 T 20000727