

Title (en)  
TOOTHBRUSH

Title (de)  
ZAHNBÜRSTE

Title (fr)  
BROSSE A DENTS

Publication  
**EP 1173081 B1 20031119 (DE)**

Application  
**EP 00922648 A 20000419**

Priority  
• DE 19919196 A 19990428  
• EP 0003535 W 20000419

Abstract (en)  
[origin: WO0065954A1] The toothbrush consists of a brush head with bunches of bristles (2, 3, 4) arranged in a longitudinal bristle bed (1) and a handle (6), which is connected to the bristle bed (1) by a connecting part (5). The length of the bunches of bristles (3, 4) varies in the longitudinal direction of the bristle bed (1) in a wave shape. The first bunches of bristles (2) are situated at the two outer sides of the bristle bed (1), have split bristle ends and are of essentially the same length. The second bunches of bristles (3, 4), whose length varies in the longitudinal direction of the bristle bed (1), are situated between the two outer sides of the bristle bed (1). The inventive toothbrush has an improved cleaning action, especially for interdental spaces but also for the gingival line.

IPC 1-7  
**A46B 9/04**

IPC 8 full level  
**A46B 5/00** (2006.01); **A46B 5/02** (2006.01); **A46B 9/04** (2006.01)

CPC (source: EP KR US)  
**A46B 9/04** (2013.01 - KR); **A46B 9/045** (2013.01 - EP US); **A46D 1/0292** (2013.01 - EP US)

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 0065954 A1 20001109**; AT E254415 T1 20031215; AU 4296600 A 20001117; AU 749875 B2 20020704; CA 2372050 A1 20001109; CN 1164221 C 20040901; CN 1349389 A 20020515; CZ 20013853 A3 20020612; DE 19919196 C1 20001214; DE 50004504 D1 20031224; EP 1173081 A1 20020123; EP 1173081 B1 20031119; ES 2211534 T3 20040716; HK 1043519 A1 20020920; HK 1043519 B 20050318; HU 225548 B1 20070328; HU P0200857 A2 20021128; JP 2004506452 A 20040304; KR 20020005014 A 20020116; NO 20015256 D0 20011026; NO 20015256 L 20011026; PL 350449 A1 20021216; SK 15492001 A3 20020404; SK 285786 B6 20070802; US 6810550 B1 20041102

DOCDB simple family (application)  
**EP 0003535 W 20000419**; AT 00922648 T 20000419; AU 4296600 A 20000419; CA 2372050 A 20000419; CN 00806814 A 20000419; CZ 20013853 A 20000419; DE 19919196 A 19990428; DE 50004504 T 20000419; EP 00922648 A 20000419; ES 00922648 T 20000419; HK 02105148 A 20020711; HU P0200857 A 20000419; JP 2000614847 A 20000419; KR 20017013700 A 20011026; NO 20015256 A 20011026; PL 35044900 A 20000419; SK 15492001 A 20000419; US 3076102 A 20020418