

Title (en)  
TOOTHBRUSH

Title (de)  
ZAHNBÜRSTE

Title (fr)  
BROSSE A DENTS

Publication  
**EP 1063906 A4 20041229 (EN)**

Application  
**EP 99909829 A 19990304**

Priority  
• US 9904790 W 19990304  
• US 3958198 A 19980316

Abstract (en)  
[origin: WO9947020A1] A toothbrush (10) includes a handle (12), a head (14) extending from the handle, and a multiplicity of bristles (16) extending from the head. At least a portion of the toothbrush is a first color prior to the portion being exposed to liquid for the first time. The portion changes to a second color after the portion has been exposed to liquid for a period of time which is less than the accumulated time which passes during five typical uses of the toothbrush to brush a person's teeth. The change in color is caused by removal from the toothbrush of at least part of the portion by the liquid. The change in color is perceivable by the unaided human eye. Also, the toothbrush can be identified from one or more other toothbrushes which appear substantially identical to the certain toothbrush when viewed with the unaided human eye by use of bristle fasteners of different materials.

IPC 1-7  
**A46B 3/16**; A46B 9/04; A46B 15/00

IPC 8 full level  
**A46B 15/00** (2006.01)

CPC (source: EP)  
**A46B 15/0002** (2013.01); **A46B 15/0008** (2013.01); **B29L 2031/425** (2013.01)

Citation (search report)  
• [X] US 5340581 A 19940823 - TSENG MINGCHIH M [US], et al  
• See references of WO 9947020A1

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

DOCDB simple family (publication)  
**WO 9947020 A1 19990923**; AR 018756 A1 20011212; AU 2894799 A 19991011; BR 9908774 A 20011002; CN 1293547 A 20010502; EP 1063906 A1 20010103; EP 1063906 A4 20041229

DOCDB simple family (application)  
**US 9904790 W 19990304**; AR P990101127 A 19990316; AU 2894799 A 19990304; BR 9908774 A 19990304; CN 99804043 A 19990304; EP 99909829 A 19990304