

Title (en)  
TOOTHBRUSH

Title (de)  
ZAHNBÜRSTE

Title (fr)  
BROSSE A DENTS

Publication  
**EP 0955837 A4 20000719 (EN)**

Application  
**EP 98956668 A 19981106**

Priority  
• US 9823780 W 19981106  
• US 96829397 A 19971112  
• US 17799198 A 19981023

Abstract (en)  
[origin: WO9923910A1] A toothbrush (10) having a handle (12) and a plurality of tufts of bristles (26) secured to the head (14). One of the tufts is secured to the head (14) at a location such that no other tuft is secured to the head at a location that is more distal from the handle (12) than the location where the one tuft is secured to the head (14). The one tuft is angled by about 81 degrees or less relative to an imaginary line which is tangent to a co-planar with a surface of the head through which the one tuft secured to the head (14). The one tuft is tilted away from the handle (12) towards a direction along which the head (14) extends from the handle (12).

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**A46B 9/04**

IPC 8 full level  
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Citation (search report)  
• [X] FR 2624360 A1 19890616 - HABABOU JACQUES [FR]  
• [X] DE 4412301 A1 19951012 - BACKHAUS MARC [DE]  
• [A] US 4081876 A 19780404 - PUGH BRINLEY ROY  
• [A] US 4010509 A 19770308 - HUIISH FREDERIC G  
• See also references of WO 9923910A1

Cited by  
US10004322B2; US10729232B2; US11641932B2

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**WO 9923910 A1 19990520**; AR 048240 A2 20060412; AT E233060 T1 20030315; AU 1313799 A 19990531; AU 742959 B2 20020117; BR 9806247 A 20000125; CA 2271852 A1 19990520; CA 2271852 C 20040309; CN 1120682 C 20030910; CN 1241123 A 20000112; CZ 172999 A3 19991215; DE 19881632 T1 19991028; DE 29823590 U1 19991007; DE 29823799 U1 20000824; DE 69811634 D1 20030403; DE 69811634 T2 20031023; DE 69811634 T3 20090514; EP 0955837 A1 19991117; EP 0955837 A4 20000719; EP 0955837 B1 20030226; EP 0955837 B2 20081022; EP 1240847 A2 20020918; EP 1240847 A3 20030212; EP 1240847 B1 20111221; ES 2192797 T3 20031016; ES 2192797 T5 20090301; GB 2333697 A 19990804; GB 9911198 D0 19990714; HU P0004254 A2 20010328; HU P0004254 A3 20011228; ID 21723 A 19990715; IL 129913 A0 20000601; IL 129913 A 20020523; JP 2001507981 A 20010619; JP 2008068108 A 20080327; JP 2008068109 A 20080327; JP 2008093449 A 20080424; JP 4069188 B2 20080402; NO 992417 D0 19990520; NO 992417 L 19990716; NZ 335854 A 20010629; PL 191797 B1 20060731; RO 120310 B1 20051230; RU 2228129 C2 20040510; SK 63899 A3 20000516; TR 199901208 T1 19991221; TW 538701 U 20030621

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**US 9823780 W 19981106**; AR P050100652 A 20050223; AT 98956668 T 19981106; AU 1313799 A 19981106; BR 9806247 A 19981106; CA 2271852 A 19981106; CN 98801415 A 19981106; CZ 172999 A 19981106; DE 19881632 T 19981106; DE 29823590 U 19981106; DE 29823799 U 19981106; DE 69811634 T 19981106; EP 02012748 A 19981106; EP 98956668 A 19981106; ES 98956668 T 19981106; GB 9911198 A 19981106; HU P0004254 A 19981106; ID 981466 A 19981109; IL 12991398 A 19981106; JP 2007264732 A 20071010; JP 2007264745 A 20071010; JP 2007264749 A 20071010; JP 52276899 A 19981106; NO 992417 A 19990520; NZ 33585498 A 19981106; PL 33365298 A 19981106; RO 9900597 A 19981106; RU 99111087 A 19981106; SK 63899 A 19981106; TR 9901208 T 19981106; TW 90222935 U 19981124