

Title (en)  
Tooth brush with mixed bristle bundles and method for its manufacture

Title (de)  
Zahnbürste mit gemischten Borstenbündeln und Verfahren zur Herstellung

Title (fr)  
Brosse à dents avec faisceaux de soies mélangés et procédé de fabrication

Publication  
**EP 2526815 A3 20121212 (DE)**

Application  
**EP 12004612 A 20080607**

Priority

- EP 12004612 A 20080607
- EP 08010409 A 20080607

Abstract (en)  
[origin: EP2130454A1] The method involves inserting a bristle bundle (22) into a retaining recess (64) of a tool (60) of a bristling machine. The bristle bundle is adjusted at ends of tapered bristles (40) by a pin (66) guided into the retaining recess. Tip (42) of each of the bristles are mechanically processed before inserting into the retaining recess, where each bristle has a tapered section pointing at the tip of the bristles and a cylindrical section (50) with an obtuse end (46). The cylindrical section is attached to the tapered section. An independent claim is also included for a bristling machine i.e. anchor free tufting machine, for manufacturing an anchorless bristled toothbrush.

IPC 8 full level  
**A46B 3/00** (2006.01); **A46B 9/04** (2006.01); **A46D 1/00** (2006.01)

CPC (source: EP US)  
**A46B 3/00** (2013.01 - EP US); **A46B 9/04** (2013.01 - EP US); **A46D 1/00** (2013.01 - EP US); **A46D 1/0276** (2013.01 - EP US); **A46D 3/00** (2013.01 - EP US); **A46D 3/045** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2130454 A1 20091209; EP 2130454 B1 20151028**; CN 102056507 A 20110511; CN 102056507 B 20140122; CN 103767313 A 20140507; CN 103767313 B 20160629; EP 2526815 A2 20121128; EP 2526815 A3 20121212; EP 2526815 B1 20180418; US 2011109149 A1 20110512; US 2013333132 A1 20131219; US 8534769 B2 20130917; US 9173480 B2 20151103; WO 2009146909 A2 20091210; WO 2009146909 A3 20100429

DOCDB simple family (application)  
**EP 08010409 A 20080607**; CN 200980121035 A 20090604; CN 201410002061 A 20090604; EP 12004612 A 20080607; EP 2009003999 W 20090604; US 201313952017 A 20130726; US 99152809 A 20090604