

Title (en)

MULTI-FILAMENT BRISTLES FOR TOOTHBRUSHES

Title (de)

MEHRFILAMENTIGE BORSTEN FÜR ZAHNBÜRSTEN

Title (fr)

POILS À PLUSIEURS FILAMENTS POUR BROSSES À DENTS

Publication

**EP 1993399 A1 20081126 (DE)**

Application

**EP 07703053 A 20070126**

Priority

- EP 2007000664 W 20070126
- DE 102006012004 A 20060316

Abstract (en)

[origin: WO2007104381A1] The invention relates to a bristle (1; 4; 7; 10; 13), in particular for toothbrushes, and to a corresponding production method, wherein the bristle, in the longitudinal direction, has at least two jointly extruded filaments (2; 3; 5; 6; 8; 9; 11; 12; 14; 15) made of different materials, wherein the cross-sectional area of at least one of the filaments (3; 5; 9; 11) decreases toward the free end of the bristle.

IPC 8 full level

**A46D 1/05** (2006.01)

CPC (source: EP KR US)

**A46D 1/00** (2013.01 - EP KR US); **A46D 1/023** (2013.01 - EP KR US); **A46D 1/0276** (2013.01 - EP KR US); **A46D 1/0292** (2013.01 - EP KR US); **A46D 1/05** (2013.01 - KR)

Citation (search report)

See references of WO 2007104381A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102006012004 A1 20070920**; AU 2007224819 A1 20070920; BR PI0709398 A2 20110705; CA 2645152 A1 20070920; CN 101404912 A 20090408; EP 1993399 A1 20081126; EP 1993399 B1 20180926; JP 2009529612 A 20090820; KR 20090006067 A 20090114; MX 2008011496 A 20080922; RU 2008140938 A 20100427; US 2009094770 A1 20090416; WO 2007104381 A1 20070920; ZA 200807199 B 20090527

DOCDB simple family (application)

**DE 102006012004 A 20060316**; AU 2007224819 A 20070126; BR PI0709398 A 20070126; CA 2645152 A 20070126; CN 200780009304 A 20070126; EP 07703053 A 20070126; EP 2007000664 W 20070126; JP 2008558659 A 20070126; KR 20087022155 A 20080910; MX 2008011496 A 20070126; RU 2008140938 A 20070126; US 29301107 A 20070126; ZA 200807199 A 20080820