

Title (en)
TOOTH BRUSH

Title (de)
ZAHNBÜRSTE

Title (fr)
BROSSE A DENTS

Publication
EP 2011416 B1 20140716 (EN)

Application
EP 07741297 A 20070410

Priority
• JP 2007057861 W 20070410
• JP 2006118162 A 20060421

Abstract (en)
[origin: EP2011416A1] A tooth brush which is excellent in durability and can give a high massaging effect to a person even with weak gum with a low stimulus and without damaging the gum in various tooth brushing methods, especially in a Bass method. The toothbrush comprises bristles (4) tufted on an toothbrush head (20), wherein thermoplastic elastomer bristles (41, ----) are tufted in the inner portion (R1) in a width direction of the toothbrush head (20) and synthetic resin bristles (42, ----) harder than the thermoplastic elastomer bristles are tufted in the both outer portion (R2, R3) in a width direction of the toothbrush head (20) respectively. Especially, each tuft (5) tufted on the toothbrush head (20) is so trimmed that bristles (4) are continuously or stepwise shorter from the inner portion to the outer portion in the width direction

IPC 8 full level
A46D 1/00 (2006.01); **A46B 9/04** (2006.01); **A61C 17/00** (2006.01); **D01F 6/60** (2006.01); **D01F 6/62** (2006.01); **D01F 6/90** (2006.01); **D01F 6/92** (2006.01); **D01F 8/14** (2006.01); **A46B 9/06** (2006.01)

CPC (source: EP US)
A46B 9/028 (2013.01 - EP US); **A46B 9/04** (2013.01 - EP US); **A46B 9/06** (2013.01 - EP US); **A46D 1/00** (2013.01 - EP US); **A46D 1/023** (2013.01 - EP US); **A46D 1/0238** (2013.01 - EP US); **A46D 1/0276** (2013.01 - EP US); **A46D 1/0292** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US)

Cited by
US10743647B2; RU210390U1; EP4011241A1; AU2014414812B2; RU2669740C1; US11241080B2; US11291293B2; US11779102B2; WO2016105361A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2011416 A1 20090107; **EP 2011416 A4 20120314**; **EP 2011416 B1 20140716**; CA 2649825 A1 20071101; CA 2649825 C 20140408; CN 101426396 A 20090506; CN 101426396 B 20121024; ES 2483691 T3 20140807; JP 2007289265 A 20071108; JP 4992285 B2 20120808; US 2009064435 A1 20090312; WO 2007123013 A1 20071101

DOCDB simple family (application)
EP 07741297 A 20070410; CA 2649825 A 20070410; CN 200780014366 A 20070410; ES 07741297 T 20070410; JP 2006118162 A 20060421; JP 2007057861 W 20070410; US 29793307 A 20070410