

Title (en)

TOOTHBRUSH WITH NOVEL BRISTLE CONFIGURATION

Title (de)

ZAHNBÜRSTE MIT NEUARTIGER BORSTENKONFIGURATION

Title (fr)

BROSSE À DENTS AVEC UNE NOUVELLE CONFIGURATION DE POILS

Publication

EP 4295727 A1 20231227 (EN)

Application

EP 22180856 A 20220623

Priority

EP 22180856 A 20220623

Abstract (en)

This disclosure provides a toothbrush head and a toothbrush with improved toothbrush bristle configuration comprising different types of bristle filaments in a specified arrangement. Disclosed are toothbrush heads (10) connected to or connectable to a handle (20) to define a head-handle longitudinal direction (L-L) and a widthways direction (W-W) perpendicular to the longitudinal direction (L-L), the head (10) having a bristle surface (12) with a distal end (12A) further from the handle (20), a proximal end (12B) closer to the handle (20), a left side (12C) and a right side (12C), wherein tufts of bristles extend from the bristle surface (12). The tufts of bristles comprise first tufts (14) comprising first bristles (141) with rounded tips and second tufts (16) comprising second bristles (161) which are tapered, wherein some of the first tufts (14) are arranged in a circular nest (15) outermost closest to the distal end (12A), and wherein second tufts (16) are arranged on the left side (12C) and the right side (12D) of the bristle surface (12), with first tufts (14) being arranged between the second tufts (16). Also provided are toothbrushes comprising said toothbrush heads. The toothbrushes achieve excellent plaque removal in all risk areas.

IPC 8 full level

A46B 9/04 (2006.01); **A46B 9/02** (2006.01); **A46B 9/06** (2006.01); **A46D 1/00** (2006.01)

CPC (source: EP)

A46B 9/026 (2013.01); **A46B 9/04** (2013.01); **A46B 9/06** (2013.01); **A46D 1/0276** (2013.01); **A46D 1/0284** (2013.01); **A46B 2200/1066** (2013.01)

Citation (applicant)

WO 2012120014 A1 20120913 - GLAXOSMITHKLINE CONSUMER HEALT [DE], et al

Citation (search report)

- [XII] EP 4011241 A1 20220615 - GLAXOSMITHKLINE CONSUMER HEALTHCARE GMBH & CO KG [DE]
- [XI] US 2019216212 A1 20190718 - ALINSKI JENS [DE], et al
- [I] CN 112972040 A 20210618 - HAWLEY & HAZEL BVI CO LTD
- [I] US 2008148502 A1 20080626 - FISCHER FRANZ [CH], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4295727 A1 20231227; WO 2023247623 A1 20231228

DOCDB simple family (application)

EP 22180856 A 20220623; EP 2023066791 W 20230621