

Title (en)

Bristle tuft and toothbrush with bristle tuft

Title (de)

Borstenbüschel und Zahnbürste mit Borstenbüschel

Title (fr)

Touffes de poils et brosse à dents dotée de telles touffes

Publication

**EP 2198744 B1 20111109 (DE)**

Application

**EP 08022101 A 20081219**

Priority

EP 08022101 A 20081219

Abstract (en)

[origin: EP2198744A1] The bristle bunch (1) has thick bristles (2) whose wear behavior is different from wear behavior of thin bristles (3). Each thick bristle includes a color changeable wear indicator (5) for indicating color change of the thick bristles. The thin bristles are subjected to visible mechanical changes i.e. bending, with continuous mechanical stress. The mechanical changes are recognizable after a predetermined service life of a toothbrush. A cross-sectional area of the thin bristles is smaller than a cross-sectional area of the thick bristles. Free ends of the bristles are round in shape.

IPC 8 full level

**A46B 9/04** (2006.01); **A46B 15/00** (2006.01); **A46D 1/00** (2006.01); **A46B 9/06** (2006.01)

CPC (source: EP US)

**A46B 9/04** (2013.01 - EP US); **A46B 15/0002** (2013.01 - EP US); **A46B 15/001** (2013.01 - EP US); **A46D 1/00** (2013.01 - EP US); **A46D 1/0292** (2013.01 - EP US); **A46B 9/06** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US); **Y10T 428/2973** (2015.01 - EP US)

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Designated contracting state (EPC)

DE

DOCDB simple family (publication)

**EP 2198744 A1 20100623**; **EP 2198744 B1 20111109**; US 2010293734 A1 20101125; US 8448286 B2 20130528

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**EP 08022101 A 20081219**; US 64220309 A 20091218