

Title (en)

Toothbrush bristle and method for manufacturing such a bristle

Title (de)

Zahnbürstenborste und Verfahren zur Herstellung einer solchen Borste

Title (fr)

Soie de brosse à dents et son procédé de fabrication

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Application

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Abstract (en)

The present invention relates generally to bristles, in particular tooth-cleaning bristles comprising a surface structure with at least one surface recess such as dimples and pittings, and to a method for manufacturing such a bristle. Moreover, the present invention also relates to a toothbrush head including a plurality of tufts of such bristles. According to the present invention, the method for manufacturing the bristle is characterized in that a bristle body with at least a portion made of a material soluble by a corrosive agent is covered in part with a cover layer stable to said corrosive agent such that a surface portion of said bristle body substantially corresponding to said at least one surface recess is uncovered, and said bristle body is contacted with said corrosive agent for a limited time to create the surface recess in said uncovered surface portion. Correspondingly, a bristle according to the present invention is characterized in that its surface structure includes at least one etch pitting or etch recess in a bristle body made at least in part of a material soluble by a corrosive agent.

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Citation (applicant)

DE 19818345 A1 19991028 - PEDEX & CO GMBH [DE]

Citation (search report)

- [X] US 5678275 A 19971021 - DERFNER NITZA [US]
- [X] EP 0281066 A2 19880907 - KANEBO LTD [JP]
- [X] EP 0117561 A2 19840905 - KURARAY CO [JP]
- [A] WO 9916964 A1 19990408 - SCAPA GROUP PLC [GB], et al
- [A] US 2005160546 A1 20050728 - WEIHRAUCH GEORG [DE]
- [A] WO 0176414 A1 20011018 - PEDEX & CO GMBH [DE], et al

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