

Title (en)  
MONOFILAMENTS WITH SPLIT ENDS

Title (de)  
MONOFILAMENTE MIT GESPALTENEN ENDEN

Title (fr)  
MONOFILAMENTS A EXTREMITES FENDUES

Publication  
**EP 0986656 B1 20041117 (EN)**

Application  
**EP 97918786 A 19970424**

Priority  
US 9706780 W 19970424

Abstract (en)  
[origin: WO9848086A1] Monofilaments with split ends. The monofilaments can be used to form toothbrush bristles having flagged or feathered tips. Each of the monofilaments has a plurality of internal fusion lines and at least four voids, wherein the voids comprise between 5 and 20 % of the cross-sectional area of the monofilaments. Preferably, the monofilaments each have a diameter in a range of 0.0025 to 0.012 inches, and have a hexalocular or an octalocular configuration. The monofilaments are manufactured by extruding a plurality of thermoplastic polymeric streams, rotating a plurality of cutting blades above 1000 rpm, and placing a plurality of cutting blades in contact with end portions of the plurality of thermoplastic polymeric streams to form split ends.

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Cited by  
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**WO 9848086 A1 19981029**; AU 2680197 A 19981113; CA 2287342 A1 19981029; CA 2287342 C 20070116; DE 69731666 D1 20041223; DE 69731666 T2 20060216; EP 0986656 A1 20000322; EP 0986656 B1 20041117; JP 2001523308 A 20011120; JP 3958801 B2 20070815

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