

Title (en)  
Brush roll

Title (de)  
Bürstenwalze

Title (fr)  
Brosse cylindrique

Publication  
**EP 1397977 A1 20040317 (EN)**

Application  
**EP 02256424 A 20020913**

Priority  
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• US 24391902 A 20020916

Abstract (en)  
The brush roll has a roll shaft and two brush filling materials, in which the two brush filling materials are arranged around the outside surface of the roll shaft and distributed to mix with each other. The first brush filling material comprises of either a single yarn of a monofilament having a diameter of 0.1 to 2.0 mm, and a collective fiber comprising of 3 to 56 filaments made into a bundle. The second brush filling material comprises of 100 to 3,000 filaments having a diameter of 0.005 to 0.05 mm made into a bundle.

IPC 1-7  
**A46B 13/00**; **A46D 1/00**

IPC 8 full level  
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Citation (search report)  
• [A] US 5737794 A 19980414 - BARBER JR LOREN L [US], et al  
• [A] US 6352471 B1 20020305 - BANGE DONNA W [US], et al  
• [A] US 3969090 A 19760713 - SASENA ROBERT C, et al  
• [A] GB 2106020 A 19830407 - AVCO CORP [US]  
• [A] US 5177910 A 19930112 - NOROTA SUSUMU [JP], et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03 27 February 1998 (1998-02-27)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02 2 April 2002 (2002-04-02)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 020 (C - 676) 17 January 1990 (1990-01-17)

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