

Title (en)
YARN PROCESSING DEVICE AND USE THEREOF

Title (de)
GARNBEHANDLUNGSEINRICHTUNG SOWIE VERWENDUNG DERSELBEN

Title (fr)
DISPOSITIF DE TRAITEMENT DES FILS ET SON UTILISATION

Publication
EP 1060302 B2 20050608 (DE)

Application
EP 99904683 A 19990303

Priority
• CH 9900097 W 19990303
• CH 49998 A 19980303

Abstract (en)
[origin: US6564438B1] A method and machine for treating yarn may include feeding the yarn through both a heat treatment and an air jet texturing nozzle. The texturing nozzle may be supplied with compressed air, producing an air jet with a speed greater than Mach 1 in the yarn channel. The heat treatment may be performed before and/or after feeding the yarn through the texturing nozzle.

IPC 1-7
D02J 13/00

IPC 8 full level
D02J 13/00 (2006.01); **D02G 1/16** (2006.01); **D02J 1/00** (2006.01); **D02J 1/08** (2006.01)

CPC (source: EP KR US)
D02G 1/162 (2013.01 - EP US); **D02J 13/00** (2013.01 - KR)

Citation (opposition)
Opponent :
• US 3261071 A 19660719 - CLENDENING JR FRANCIS JOSEPH, et al
• EP 0039763 A2 19811118 - RIETER AG MASCHF [CH]
• EP 0026360 A1 19810408 - RIETER AG MASCHF [CH]
• DE 3915691 A1 19891130 - BARMAG BARMER MASCHF [DE]
• EP 0184625 A2 19860618 - RIETER AG MASCHF [CH]
• Dubbel, Taschenbuch für die Maschinenbau, 18. Auflage, 1995, S.G33
• Chemical Fibers International, Vol.45, 08-1995,S.306-312, F.Bäcker/K. Schäfer: "Technologies for the economical production of BCF yarn today and tomorrow"
• H. Schellenberg: "Entwicklungen und Tendenzen in der BCF-Texturierung", Chemiefasern/Textilindustrie, Dezember 1984, S. 902-908
• DIN 7993, 04-1970
• DIN 9045, 1974
• Webster's third New International Dictionary, Ausgabe 1976, Seite 681

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US7260875B2; EP2886690B1

Designated contracting state (EPC)
CH DE DK ES FR GB IT LI

DOCDB simple family (publication)
US 6564438 B1 20030520; CN 1099479 C 20030122; CN 1158417 C 20040721; CN 1292046 A 20010418; CN 1292048 A 20010418; DE 59900828 D1 20020321; DE 59901629 D1 20020711; DK 1058745 T3 20020527; EP 1058745 A1 20001213; EP 1058745 B1 20020206; EP 1060302 A1 20001220; EP 1060302 B1 20020605; EP 1060302 B2 20050608; EP 1060302 B9 20050727; ES 2171072 T3 20020816; ES 2177230 T3 20021201; ES 2177230 T5 20051116; ID 26561 A 20010118; ID 28238 A 20010510; JP 2002506130 A 20020226; JP 2002506131 A 20020226; JP 3684154 B2 20050817; KR 100442957 B1 20040804; KR 20010034524 A 20010425; KR 20010041281 A 20010515; RU 2000124934 A 20040120; RU 2175695 C1 20011110; RU 2208071 C2 20030710; TW 449627 B 20010811; TW 538153 B 20030621; US 6609278 B1 20030826

DOCDB simple family (application)
US 62339400 A 20001107; CN 99803532 A 19990303; CN 99803533 A 19990303; DE 59900828 T 19990303; DE 59901629 T 19990303; DK 99904684 T 19990303; EP 99904683 A 19990303; EP 99904684 A 19990303; ES 99904683 T 19990303; ES 99904684 T 19990303; ID 20001672 A 19990303; ID 20001673 A 19990303; JP 2000534709 A 19990303; JP 2000534711 A 19990303; KR 20007009256 A 20000822; KR 20007009380 A 20000824; RU 2000124932 A 19990303; RU 2000124934 A 19990303; TW 88103146 A 19990302; TW 88103147 A 19990302; US 62339600 A 20001117