

Title (en)
NOZZLE BODY FOR PRODUCING VERY FINE LIQUID JET FLOWS ON WATER NEEDLING DEVICES

Title (de)
DÜSENSTREIFEN ZUR ERZEUGUNG VON FEINSTEN FLÜSSIGKEITSSTRAHLEN AN WASSERVERNADELUNGSEINRICHTUNGEN

Title (fr)
CORPS DE PULVERISATION PERMETTANT DE PRODUIRE DES JETS DE LIQUIDE ULTRAFINS SUR DES DISPOSITIFS D'AIGUILLETAGE HYDRAULIQUE

Publication
EP 1319099 B1 20050720 (DE)

Application
EP 01982307 A 20010918

Priority
• DE 10047106 A 20000921
• EP 0110753 W 20010918

Abstract (en)
[origin: WO0224998A2] The invention relates to jet flows on a nozzle beam for hydrodynamic water needling, formed inside a nozzle body which is supported as a component part on the nozzle strip. The aim of the invention is to ensure long-term secure positioning of the sapphire or similar material on the nozzle strip. According to the invention, the nozzle bodies are respectively held in place in a nozzle body support which is introduced via a foot part with a smaller diameter smaller into bores in the nozzle strip.

IPC 1-7
D04H 1/46; **B05B 1/02**; **B05B 3/10**

IPC 8 full level
B05B 1/02 (2006.01); **B05B 1/14** (2006.01); **B05B 3/10** (2006.01); **D04H 1/46** (2006.01); **D04H 18/04** (2012.01); **B05B 15/06** (2006.01)

CPC (source: EP US)
B05B 1/14 (2013.01 - EP US); **D04H 18/04** (2013.01 - EP US); **B05B 15/65** (2018.01 - EP US); **Y10S 239/19** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0224998 A2 20020328; **WO 0224998 A3 20020815**; **WO 0224998 B1 20021128**; AT E299960 T1 20050815; AU 1393002 A 20020402; DE 10047106 A1 20020411; DE 50106809 D1 20050825; DK 1319099 T3 20051114; EP 1319099 A2 20030618; EP 1319099 B1 20050720; JP 2004510070 A 20040402; US 2004026543 A1 20040212; US 6942167 B2 20050913

DOCDB simple family (application)
EP 0110753 W 20010918; AT 01982307 T 20010918; AU 1393002 A 20010918; DE 10047106 A 20000921; DE 50106809 T 20010918; DK 01982307 T 20010918; EP 01982307 A 20010918; JP 2002529585 A 20010918; US 38103003 A 20030925