

Title (en)  
BLOWING LANCE NOZZLE

Title (de)  
BLASLANZENKOPF

Title (fr)  
NEZ DE LANCE DE SOUFFLAGE

Publication  
**EP 1325161 B1 20050427 (FR)**

Application  
**EP 01969081 A 20010911**

Priority  
• BE 0100148 W 20010911  
• BE 200000588 A 20000915

Abstract (en)  
[origin: WO0222892A1] The invention concerns a blowing lance nozzle (1) comprising: a central tube (2) supplying stirring gas, an inner tube (5) for intake of a cooling liquid, an outer tube (10) for evacuation of the cooling liquid, a heat exchanging space (13), and outlet conduit (15) for the stirring gas exiting from each orifice (4) in the front wall (3), the front wall (12) having a central recess (16) which is oriented towards the central orifice (8) and has a recess height/recess base ratio not less than 0.35, said heat exchanging space having a section for allowing through the cooling liquid through said space which is substantially constant, so as to obtain a cooling liquid passage speed through said space which is more or less constant.

IPC 1-7  
**C21C 5/46**; **C21C 5/32**; **F27D 3/16**

IPC 8 full level  
**C21C 7/072** (2006.01); **C21C 5/46** (2006.01)

CPC (source: EP KR US)  
**C21C 5/46** (2013.01 - KR); **C21C 5/4606** (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 0222892 A1 20020321**; AT E294245 T1 20050515; AU 8942901 A 20020326; BE 1013686 A3 20020604; BR 0113900 A 20030722; CN 1201024 C 20050511; CN 1457368 A 20031119; DE 60110446 D1 20050602; EP 1325161 A1 20030709; EP 1325161 B1 20050427; JP 2004524437 A 20040812; KR 20030046454 A 20030612; US 2003178186 A1 20030925; US 6849228 B2 20050201

DOCDB simple family (application)  
**BE 0100148 W 20010911**; AT 01969081 T 20010911; AU 8942901 A 20010911; BE 200000588 A 20000915; BR 0113900 A 20010911; CN 01815625 A 20010911; DE 60110446 T 20010911; EP 01969081 A 20010911; JP 2002527332 A 20010911; KR 20037003810 A 20030314; US 38021603 A 20030312