

Title (en)  
BLOWING LANCE NOZZLE

Title (de)  
BLASLANZENKOPF

Title (fr)  
NEZ DE LANCE DE SOUFFLAGE

Publication  
**EP 1325161 A1 20030709 (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)

Citation (search report)  
See references of WO 0222892A1

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