

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: US6849228B2] A blowing lance nozzle (1) having: 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 an outlet conduit (15) for the stirring gas exiting from each orifice (4) in the front wall (3). The front wall (12) has 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. The heat exchanging space has a section for allowing passage of the cooling liquid through the space at a speed which is substantially constant, so as to obtain a cooling liquid passage speed, through the 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