

Title (en)

FLAT SPRAY NOZZLE FOR COOLING OF CONTINUOUSLY CONVEYED CAST STRANDS IN A CONTINUOUS CASTING PLANT

Publication

EP 0167921 B1 19880427 (DE)

Application

EP 85107858 A 19850625

Priority

DE 3425092 A 19840707

Abstract (en)

[origin: US4641785A] A flat jet nozzle for spraying coolant on a continuously conveyed billet with a wide angle spray along the width of the billet is formed with a cylindrical wall having a discharge slot extending in the circumferential direction of the cylindrical wall, with the slot having a width which increases from the middle of the slot toward the outer sides thereof.

IPC 1-7

B22D 11/124; **B22D 11/16**

IPC 8 full level

B05B 1/04 (2006.01); **B05B 1/26** (2006.01); **B05B 7/00** (2006.01); **B22D 11/124** (2006.01); **B22D 11/16** (2006.01)

CPC (source: EP US)

B05B 1/267 (2013.01 - EP US); **B22D 11/1246** (2013.01 - EP US); **B05B 1/04** (2013.01 - EP US)

Citation (examination)

"Die Prinzipien der Sekundärkühlung für das Stranggießen von Stahl", Klepzig Fachberichte, 77. Jahrgang, Heft 3/1969

Cited by

US5836377A; AU598009B2

Designated contracting state (EPC)

AT CH DE FR GB LI LU

DOCDB simple family (publication)

EP 0167921 A2 19860115; **EP 0167921 A3 19861008**; **EP 0167921 B1 19880427**; AT E33775 T1 19880515; DE 3425092 A1 19860206; DE 3562322 D1 19880601; JP S6130269 A 19860212; US 4641785 A 19870210

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EP 85107858 A 19850625; AT 85107858 T 19850625; DE 3425092 A 19840707; DE 3562322 T 19850625; JP 14689685 A 19850705; US 75293985 A 19850708