

Publication

**EP 0852166 A3 19980722**

Application

**EP 97830676 A 19971216**

Priority

IT RM960869 A 19961216

Abstract (en)

[origin: EP0852166A2] A discharge nozzle for moulds in continuous casting machines, which comprises: a main body (5) of substantially cylindrical shape; an outflow duct (6) formed inside said main body (5); at least two first outlets (8) arranged in a substantially symmetrical manner along the external perimeter of said main body (5) one respect to the other, and at the lower end of said main body (5) in order to communicate said outflow duct (6) towards the outside; at least two second outlets (9) arranged in a substantially symmetrical manner along the external perimeter of said main body (5) one respect to the other, and above said at least two first openings (8), in order to communicate said outflow duct (6) towards the outside; characterised in that each outlet of said at least two first outlets (8) has a prevalently upward direction, and in that each outlet of said at least two second outlets (9) has a prevalently downward direction, and in that said outflow duct (6) is optionally downwardly frustoconical. <IMAGE>

IPC 1-7

**B22D 41/00**; **B22D 41/50**

IPC 8 full level

**B22D 41/50** (2006.01)

CPC (source: EP)

**B22D 41/50** (2013.01)

Citation (search report)

- [X] US 3371704 A 19680305 - IVANOVITCH ASTROV EVGENY, et al
- [X] DE 1287752 B 19690123 - MANNESMANN AG
- [X] WO 8912519 A1 19891228 - DAVY DISTINGTON LTD [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 067 (M - 566) 28 February 1987 (1987-02-28)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 001 (M - 550) 6 January 1987 (1987-01-06)

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DE10113026C2; CN100415411C; AU2004291536B2; US7581664B2; WO2005049249A3

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