Title (en)
ARRANGEMENT OF A SLEEVE FOR THE INJECTION OF GASES OR SOLIDS INTO A LADLE CONTAINING A METALLURGICAL MELT

Publication
EP 0204076 B1 19890816 (DE)

Application
EP 86102833 A 19860304

Priority
DE 3520207 A 19850605

Abstract (en)
[origin: US4709905A] A casing assembly includes a nozzle brick to form part of a wall of a metallurgical vessel. The nozzle brick has therethrough a conical opening defined by a conical inner surface. A casing to be inserted into the conical opening has a truncated conical shape including a conical outer surface and an axially extending flow through opening. The conical opening and the casing have coaxial center axes, and the conical inner and outer surfaces extend at equal angles of inclination to such axes. The conical inner surface is jacketed with a thin metal shell having a conical shape with the same inclination as that of the conical inner and outer surfaces.

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B22D 41/08; C21C 7/072

IPC 8 full level
C21C 7/072 (2006.01); **B22D 1/00** (2006.01); **B22D 41/08** (2006.01); **B22D 41/42** (2006.01); **C21C 1/00** (2006.01); **C21C 5/48** (2006.01)

CPC (source: EP KR US)
B22D 1/005 (2013.01 - EP US); **B22D 11/10** (2013.01 - KR)

Cited by
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Designated contracting state (EPC)
AT BE CH FR GB IT LI NL SE

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EP 0204076 A2 19861210; **EP 0204076 A3 19870916**; **EP 0204076 B1 19890816**; AT E45595 T1 19890915; BR 8602372 A 19870121; CA 1266970 A 19900327; CN 86102836 A 19861203; DE 3520207 A1 19861211; DE 3520207 C2 19870409; ES 296706 U 19871216; ES 296706 Y 19881101; IL 78680 A0 19860831; JP S61279611 A 19861210; KR 870000121 A 19870216; US 4709905 A 19871201; ZA 862540 B 19861126

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