Title (en)

METHOD OF MINIMIZING SLAG CARRYOVER

Publication

EP 0094241 B1 19851211 (EN)

Application

EP 83302619 A 19830510

Priority

US 37680082 A 19820510

Abstract (en)

[origin: EP0094241A1] The method relates to minimizing slag carryover when draining molten metal from a furnace. A polyhedral-shaped body (22) having density intermediate that of the slag (20) and metal (18) is thrown onto the surface of the slag within a restricted area over the furnace taphole (14). The body will float at the slag-metal interface, and tend to lodge with one of its corners projecting into the taphole as the final portion of remaining metal drains out of the furnace. The shape of the body and its dimensions are selected so as to only partially block the taphole opening, causing flaring of the stream so as to signal a furnace operator of the impending flow of slag from the furnace. The operator then shuts off flow to prevent carryover of slag onto the molten metal already tapped. Since only the edges of the body contact the taphole, of the body does not become welded to the wall of the taphole and therefore is easily dislodged without loss of time between heats.

IPC 1-7

C21C 5/46

IPC 8 full level

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CPC (source: EP KR)

C21B 3/06 (2013.01 - KR); **C21C 5/4653** (2013.01 - EP)

Cited by

CN104117668A; DE102017114859A1; EP0341798A1; GB2205153A; GB2205153B; GB2188132A; DE3610449A1; GB2188132B

Designated contracting state (EPC)

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EP 0094241 A1 19831116; **EP 0094241 B1 19851211**; AR 231706 A1 19850228; AT E16945 T1 19851215; AU 1443583 A 19831117; AU 552735 B2 19860619; BR 8302426 A 19840110; CA 1218846 A 19870310; DE 3361476 D1 19860123; ES 522241 A0 19840416; ES 8404415 A1 19840416; FI 73739 B 19870731; FI 73739 C 19871109; FI 831624 A0 19830510; FI 831624 L 19831111; HU 187077 B 19851128; IN 159857 B 19870613; JP S5952189 A 19840326; KR 840004786 A 19841024; NO 831649 L 19831111; YU 102483 A 19860430

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