

Title (en)

TREATMENT FOR IMPROVING THE CASTABILITY OF ALUMINIUM KILLED CONTINUOUSLY CAST STEEL

Title (de)

BEHANDLUNG ZUR VERBESSERUNG DER VERGIESSBARKEIT VON STRANGGEGOSSENEN ALUMINIUMBERUHIGTEN STÄHLEN

Title (fr)

TRAITEMENT POUR AMELIORER LA COULABILITE DES ACIERS CALMES A L'ALUMINIUM COULES EN CONTINU

Publication

EP 1194255 B1 20030129 (FR)

Application

EP 00915236 A 20000329

Priority

- FR 0000779 W 20000329
- FR 9904703 A 19990415

Abstract (en)

[origin: US6685763B1] According to this treatment, calcium is added to ultra low molten steel or low carbon which is aluminum killed (or in the course of being killed) in order to form non-metallic deoxidation inclusions that have a melting point which is below the casting temperature; the molten metal is maintained in the chain of treatment ranging from the ladle refining installation to the copper mold with a low minimum low magnesium content of approximately 2 ppm. The inventive method increases the scope of fusibility of the inclusionary population of steels, thereby improving the castability of high aluminum-killed ultra low carbon grades without the need for argon bubbling.

IPC 1-7

B22D 11/10; **C21C 7/06**; **C21C 7/00**

IPC 8 full level

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CPC (source: EP KR US)

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US 6685763 B1 20040203; AT E231758 T1 20030215; AU 3661700 A 20001102; BR 0009724 A 20020102; CA 2370437 A1 20001026; CA 2370437 C 20081014; DE 60001320 D1 20030306; DE 60001320 T2 20040122; EP 1194255 A1 20020410; EP 1194255 B1 20030129; ES 2191615 T3 20030916; FR 2792234 A1 20001020; FR 2792234 B1 20010601; JP 2002542034 A 20021210; KR 100676656 B1 20070131; KR 20010113797 A 20011228; WO 0062957 A1 20001026

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