

Title (en)

Method for continuously casting steel.

Title (de)

Verfahren zum Stranggiessen von Stahl.

Title (fr)

Procédé de coulée continue d'acier.

Publication

EP 0009803 A1 19800416 (DE)

Application

EP 79103749 A 19791002

Priority

CH 1038378 A 19781006

Abstract (en)

1. A method for the continuous casting of steel, wherein molten metal is poured into a mould, and the resultant strand, having a liquid core, is withdrawn and guided and supported in a guide path, and turbulent flow is induced in the liquid core by at least two electromagnetic travelling fields, characterized in that simultaneously acting thrust forces of different magnitudes are produced by these travelling fields so that the flows caused by these thrust forces mutually influence each other.

Abstract (de)

Zur Verbesserung der Kristallstruktur und zur Verminderung der Nachteile von positiven und negativen Seigerungen beim Stranggiessen von Stahl wird mit Hilfe von mindestens zwei Wanderfeldern unterschiedliche Schubkräfte auf den flüssigen Stahl erzeugt, wobei sich die entstehenden turbulenten Strömungen gegenseitig beeinflussen.

IPC 1-7

B22D 11/10

IPC 8 full level

B22D 11/10 (2006.01); **B22D 11/115** (2006.01); **B22D 11/12** (2006.01)

CPC (source: EP)

B22D 11/122 (2013.01)

Citation (search report)

- GB 1454052 A 19761027 - NIPPON STEEL CORP
- GB 1305414 A 19730131
- GB 1405312 A 19750910 - SIDERURGIE FSE INST RECH
- US 4016926 A 19770412 - YAMADA NAOHEI, et al

Cited by

EP0045938A1; EP0145699A1; EP0036611A1; EP0178695A1; EP0028761B1; EP3134220B1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0009803 A1 19800416; **EP 0009803 B1 19830316**; AT E2775 T1 19830415; CA 1148722 A 19830628; CH 632431 A5 19821015; DE 2965037 D1 19830421; JP S5554246 A 19800421; ZA 795254 B 19800924

DOCDB simple family (application)

EP 79103749 A 19791002; AT 79103749 T 19791002; CA 337116 A 19791005; CH 1038378 A 19781006; DE 2965037 T 19791002; JP 12741679 A 19791004; ZA 795254 A 19791002