

Title (en)

Electromagnetic agitating method for continuous casting

Title (de)

Elektromagnetische Rührereinrichtung für das Stranggiessen

Title (fr)

Dispositif de brassage électromagnétique en lingotière

Publication

EP 0511465 B1 19970924 (FR)

Application

EP 92102888 A 19920221

Priority

LU 87914 A 19910403

Abstract (en)

[origin: EP0511465A2] The invention relates to an electromagnetic agitating device in an ingot mould, in a continuous-casting installation with a mould (shell) (14) and an inductor (32) for creating a rotational movement of the molten metal in the mould (shell) (14). In order to permit implementation of free-jet casting and casting with a nozzle immersed in the same device, the inductor (32) is displaceable vertically with respect to the mould (shell) (14). <IMAGE>

IPC 1-7

B22D 11/10; **B22D 11/12**; **G01F 23/28**; **B22D 11/20**

IPC 8 full level

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

CPC (source: EP)

B22D 11/115 (2013.01); **B22D 11/122** (2013.01)

Citation (examination)

- AT 185038 B 19560326 - BOEHLER & CO AG GEB
- EP 0178695 A1 19860423 - DANIELI OFF MECC [IT]
- US 3153820 A 19641027 - CRINER CHARLES B
- Siemens Zeitschrift 51(1977), Heft 9, S. 755-757
- Prospekt "Giessspiegelmessgerät LB 352" der Firma Berthold;
- Betriebsanleitung zum Gerät LB 352
- Lehrbuch "Stahlstrang-Giessanlagen" v. Dr.-Ing. Hans G. Baumann, 1976, S. 268-286

Cited by

EP0807477A1; US6003590A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0511465 A2 19921104; **EP 0511465 A3 19930421**; **EP 0511465 B1 19970924**; **EP 0511465 B2 20031203**; AT E158525 T1 19971015; AT E171656 T1 19981015; CA 2040830 A1 19921004; CA 2040830 C 20030819; DE 69222348 D1 19971030; DE 69222348 T2 19980226; DE 69222348 T3 20040722; DE 69227206 D1 19981105; DE 69227206 T2 19990415; EP 0778098 A2 19970611; EP 0778098 A3 19971008; EP 0778098 B1 19980930; ES 2108054 T3 19971216; ES 2108054 T5 20040701; ES 2123347 T3 19990101; LU 87914 A1 19921116

DOCDB simple family (application)

EP 92102888 A 19920221; AT 92102888 T 19920221; CA 2040830 A 19910419; DE 69222348 T 19920221; DE 69227206 T 19920221; EP 97100231 A 19920221; ES 92102888 T 19920221; ES 97100231 T 19920221; LU 87914 A 19910403