

Title (en)  
METHOD AND DEVICE FOR REGULATING THE MOLTEN METAL LEVEL IN A MOULD OF A CONTINUOUS METAL CASTING MACHINE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR REGELUNG DES METALLSPIEGELS IN EINER STRANGUSSKOKILLE

Title (fr)  
PROCEDE ET DISPOSITIF DE REGULATION DU NIVEAU DE METAL LIQUIDE DANS UNE LINGOTIERE DE COULEE CONTINUE DES METAUX

Publication  
**EP 0691895 B1 19970226 (FR)**

Application  
**EP 94909977 A 19940317**

Priority  
• FR 9303872 A 19930330  
• FR 9400292 W 19940317

Abstract (en)  
[origin: WO9422618A1] The invention relates to a method for regulating the level of the meniscus (13) of molten metal in a mould (5) of a continuous casting machine, wherein the electric signals provided by at least one pair of sensors (17, 18) placed above said meniscus are collected, said signals being a function of the respective distances (h1, h2) between said sensors and said meniscus, said two signals being then combined so as to obtain a unique signal representative of a fictitious level of said meniscus, said signal being then sent to control means (15, 24) of a regulation device (14) which regulates the flow rate of metal entering the mould, so that said control means actuate said device in order to bring said fictitious level of the meniscus to a predetermined set value (h), characterised in that each signal from the sensors is conditioned by eliminating the oscillations having both a frequency higher than a threshold value (F) and an amplitude smaller than a threshold value (D). The invention relates also to a combination mode of said signals, and to a device for implementing such method.

IPC 1-7  
**B22D 11/18**; **B22D 11/20**

IPC 8 full level  
**B22D 11/16** (2006.01); **B22D 11/18** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP US)  
**B22D 11/186** (2013.01 - EP US); **B22D 11/205** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**WO 9422618 A1 19941013**; AT E149108 T1 19970315; AU 6261094 A 19941024; AU 681634 B2 19970904; BR 9406134 A 19951212; CA 2159475 A1 19941013; CA 2159475 C 20021231; CN 1046224 C 19991110; CN 1120323 A 19960410; CZ 252395 A3 19960417; CZ 284394 B6 19981111; DE 69401811 D1 19970403; DE 69401811 T2 19970904; DK 0691895 T3 19970901; EP 0691895 A1 19960117; EP 0691895 B1 19970226; ES 2100705 T3 19970616; FI 102151 B1 19981030; FI 102151 B 19981030; FI 954578 A0 19950927; FI 954578 A 19950927; FR 2703277 A1 19941007; FR 2703277 B1 19950524; GR 3022815 T3 19970630; JP 3245423 B2 20020115; JP H08508208 A 19960903; KR 100312807 B1 20020228; NO 305856 B1 19990809; NO 953859 D0 19950929; NO 953859 L 19950929; RU 2120837 C1 19981027; SK 121395 A3 19960306; SK 281795 B6 20010806; UA 37227 C2 20010515; US 5605188 A 19970225

DOCDB simple family (application)  
**FR 9400292 W 19940317**; AT 94909977 T 19940317; AU 6261094 A 19940317; BR 9406134 A 19940317; CA 2159475 A 19940317; CN 94191646 A 19940317; CZ 252395 A 19940317; DE 69401811 T 19940317; DK 94909977 T 19940317; EP 94909977 A 19940317; ES 94909977 T 19940317; FI 954578 A 19950927; FR 9303872 A 19930330; GR 970400489 T 19970314; JP 52172794 A 19940317; KR 19950704257 A 19950930; NO 953859 A 19950929; RU 95122436 A 19940317; SK 121395 A 19940317; UA 95094323 A 19940317; US 51387095 A 19951023