

Title (en)  
METHOD FOR PROCESS CONTROL OR PROCESS REGULATION OF A UNIT FOR MOULDING, COOLING AND/OR THERMAL TREATMENT OF METAL

Title (de)  
VERFAHREN ZUR PROZESSSTEUERUNG ODER PROZESSREGELUNG EINER ANLAGE ZUR UMFORMUNG, KÜHLUNG UND/ODER WÄRMEBEHANDLUNG VON METALL

Title (fr)  
PROCEDE DE COMMANDE OU DE REGULATION DE PROCESSUS D'UNE INSTALLATION DE FORMAGE, DE REFROIDISSEMENT ET/OU DE TRAITEMENT THERMIQUE DE METAL

Publication  
**EP 1567681 A1 20050831 (DE)**

Application  
**EP 03789055 A 20031119**

Priority  
• DE 10256750 A 20021205  
• EP 0312918 W 20031119

Abstract (en)  
[origin: WO2004050923A1] According to the invention, a method for process control or process regulation of a unit for moulding, cooling and/or thermal treatment of metal, in particular for steel or aluminium, whereby the unit is provided with actuators for setting particular operating parameters and the method process is based on a method model can be achieved, with which it is possible to adjust online desired structural features and, by using structural property relationships, desired material properties can be adjusted, whereby at least one current value predictive of the metal structure is recorded online and, depending on said value, suitable process control and/or process regulation parameters for acting on the actuators to set desired structure properties of the metal are determined using a structural model and the method model on which the process is based.

IPC 1-7  
**C21D 11/00**; B21B 37/00

IPC 8 full level  
**B21B 37/74** (2006.01); **C21D 11/00** (2006.01); **B21B 37/76** (2006.01); **B21B 38/00** (2006.01)

CPC (source: EP US)  
**B21B 37/74** (2013.01 - EP US); **C21D 11/00** (2013.01 - EP US); **C21D 11/005** (2013.01 - EP US); **B21B 37/76** (2013.01 - EP US); **B21B 38/006** (2013.01 - EP US); **B21B 2201/02** (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

Citation (search report)  
See references of WO 2004050923A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004050923 A1 20040617**; AR 042288 A1 20050615; AU 2003293702 A1 20040623; BR 0317039 A 20051025; CA 2508594 A1 20040617; CA 2508594 C 20130108; CN 100430495 C 20081105; CN 1720339 A 20060111; DE 10256750 A1 20040617; EP 1567681 A1 20050831; JP 2006508803 A 20060316; MY 139392 A 20090930; RU 2005121275 A 20060210; RU 2336339 C2 20081020; TW 200413117 A 20040801; TW I314070 B 20090901; UA 82498 C2 20080425; US 2006117549 A1 20060608

DOCDB simple family (application)  
**EP 0312918 W 20031119**; AR P030104462 A 20031203; AU 2003293702 A 20031119; BR 0317039 A 20031119; CA 2508594 A 20031119; CN 200380104945 A 20031119; DE 10256750 A 20021205; EP 03789055 A 20031119; JP 2004556157 A 20031119; MY PI20034565 A 20031128; RU 2005121275 A 20031119; TW 92131906 A 20031114; UA 2005006570 A 20031119; US 53752105 A 20050603