

Title (en)  
Method for controlling the distribution of quantity of liquid metal

Title (de)  
Verfahren zur Regelung der Metaldosiermenge

Title (fr)  
Méthode pour contrôler la distribution de quantité de métal liquide

Publication  
**EP 1080809 A1 20010307 (DE)**

Application  
**EP 00114000 A 20000701**

Priority  
DE 19941430 A 19990830

Abstract (en)  
Regulating the metal dosing in a vacuum die casting machine comprises measuring the metal melt (6) within the heat maintaining oven (7) by determining the actual value using as sensor (11, 12, 13) to exactly determine the melt dose in a casting chamber (9); comparing the measured values with theoretical values in a computer (14); and regulating an evacuation device (15) and/or a vacuum valve (5). Preferred Features: The flow through time and/or the flow through amount is regulated at the vacuum valve. The temperature of the melt is measured using a sensor (12), the sensor being connected to the computer.

Abstract (de)  
Die Erfindung betrifft ein Verfahren zur Regelung von Giessparameter und insbesondere die Regelung der Dosierung der Metallschmelze (6) in einer Giesskammer (9) einer Vakuum-Druckgiessmaschine. Mit Rechner (14) verbundene Messeinrichtungen (11, 12, 13) erfassen Volumen und Beschaffenheit der Schmelze und in Form eines Regelkreises erfolgt eine Regelung einer Evakuierereinrichtung (15) und/oder eines Vakuumventils (5). <IMAGE>

IPC 1-7  
**B22D 17/32**; **B22D 17/14**; **B22D 18/06**

IPC 8 full level  
**B22D 39/02** (2006.01); **B22D 17/14** (2006.01); **B22D 17/30** (2006.01); **B22D 17/32** (2006.01); **B22D 18/06** (2006.01); **B22D 39/04** (2006.01); **B22D 39/06** (2006.01)

CPC (source: EP US)  
**B22D 17/14** (2013.01 - EP US); **B22D 17/30** (2013.01 - EP US); **B22D 17/32** (2013.01 - EP US)

Citation (search report)  
• [X] EP 0594961 A1 19940504 - TOYOTA MOTOR CO LTD [JP]  
• [A] EP 0600324 A1 19940608 - MUELLER WEINGARTEN MASCHF [DE]  
• [A] US 5388633 A 19950214 - MERCER II WILLIAM E [US], et al

Cited by  
CN106670441A; WO02090021A1

Designated contracting state (EPC)  
AT CH DE ES FR IT LI

DOCDB simple family (publication)  
**US 6379609 B1 20020430**; AT E289238 T1 20050315; DE 19941430 A1 20010301; DE 50009534 D1 20050324; EP 1080809 A1 20010307; EP 1080809 B1 20050216; ES 2237367 T3 20050801; JP 2001079654 A 20010327; JP 4660660 B2 20110330

DOCDB simple family (application)  
**US 64905800 A 20000829**; AT 00114000 T 20000701; DE 19941430 A 19990830; DE 50009534 T 20000701; EP 00114000 A 20000701; ES 00114000 T 20000701; JP 2000257219 A 20000828