

Title (en)  
SYSTEM AND METHOD FOR DISCRIMINATING A FAULTY OPERATIONAL CONDITION IN A HOT-RUNNER DEVICE FOR PLASTIC MATERIAL INJECTION-MOULDING EQUIPMENTS

Title (de)  
SYSTEM UND VERFAHREN ZUM UNTERSCHIEDEN EINES FEHLERHAFTEN BETRIEBZUSTANDS IN EINER HEISSKANALVORRICHTUNG FÜR EINRICHTUNGEN ZUM SPRITZGIESSEN VON KUNSTSTOFFMATERIAL

Title (fr)  
SYSTEME ET PROCEDE DE DISCRIMINATION D'UNE CONDITION OPERATIONNELLE DEFECTUEUSE DANS UN DISPOSITIF A CANAL CHAUD POUR EQUIPEMENTS DE MOULAGE PAR INJECTION DE MATERIAU PLASTIQUE

Publication  
**EP 2040903 A2 20090401 (EN)**

Application  
**EP 07766549 A 20070615**

Priority  
• IB 2007001599 W 20070615  
• IT TV20060108 A 20060616

Abstract (en)  
[origin: WO2007144755A2] A system and method for discriminating a faulty operational condition in a hot-runner device (2), comprising a series of injectors (6), a series of tubular branches (7) for conveying the plastic material to the injectors (6), and a series of heating units (8), each of which is set on a branch (7) in a position corresponding to an injector (6) and comprises a first heating resistor (9) and a second heating resistor (10), operatively connected to a first thermocouple (11) and, respectively, to a second thermocouple (12) that measure the temperatures ( $T_{1}$ ) and ( $T_{2}$ ) of the resistors (9, 10); the method comprising the step of discriminating, as a function of the variations ( $\Delta T_{1}$ ,  $\Delta T_{2}$ ) of temperature measured by the first thermocouple (11) and by the second thermocouple (12) in two successive pre-set measurement instants ( $t_{i-1}$ ,  $t_i$ ), a faulty operational condition of the hot-runner device (2) deriving from a failure of at least one of the thermocouples (11, 12), from a faulty operational condition of the hot-runner device (2) correlated to an external event, not associated to the malfunction of the thermocouples themselves (11, 12).

IPC 8 full level  
**B29C 45/76** (2006.01); **B29C 45/27** (2006.01); **B29C 45/78** (2006.01)

CPC (source: EP)  
**B29C 45/2738** (2013.01); **B29C 45/768** (2013.01); **B29C 45/78** (2013.01); **B29C 2045/2741** (2013.01); **B29C 2045/2754** (2013.01); **B29C 2945/76043** (2013.01); **B29C 2945/76163** (2013.01); **B29C 2945/76277** (2013.01); **B29C 2945/7628** (2013.01); **B29C 2945/76454** (2013.01); **B29C 2945/76943** (2013.01)

Citation (search report)  
See references of WO 2007144755A2

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

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2007144755 A2 20071221**; **WO 2007144755 A3 20080313**; EP 2040903 A2 20090401; IT TV20060108 A1 20071217

DOCDB simple family (application)  
**IB 2007001599 W 20070615**; EP 07766549 A 20070615; IT TV20060108 A 20060616