

Title (en)  
Method for producing a fiber-reinforced composite article by die-casting process

Title (de)  
Verfahren zur Herstellung faserverstärkter Artikel

Title (fr)  
Procédé de fabrication de composite à fibre par moulage sous pression

Publication  
**EP 0834365 B1 20010808 (EN)**

Application  
**EP 97116561 A 19970923**

Priority  
JP 25270196 A 19960925

Abstract (en)  
[origin: EP0834365A1] A mold (9) is provided which is capable of producing a sound fiber-reinforced composite article utilizing a die-casting process. A cavity (22) in the mold includes a composite article forming area in which a formed product of fiber is located, a molten metal storing area located adjacent the composite article forming area to fill a molten metal into the formed product of fiber, and a molten metal flow slackening area (C) for reducing the turbulent flow of the molten metal from gates to introduce it to the molten metal storing area. Thus, the flow of the molten metal introduced into the molten metal storing area, is brought into a substantially laminar flow state, so that the inclusion of air in the molten metal flow is inhibited. Therefore, the molten metal in the molten metal storing area can be smoothly filled into the formed product of fiber under pressure.  
<IMAGE>

IPC 1-7  
**B22D 19/00**

IPC 8 full level  
**B22C 9/06** (2006.01); **B22C 9/24** (2006.01); **B22D 19/00** (2006.01); **F02F 1/10** (2006.01); **F02F 7/00** (2006.01); **F02B 75/18** (2006.01)

CPC (source: EP)  
**B22D 19/0009** (2013.01); **F02F 1/108** (2013.01); **F02F 7/0007** (2013.01); **F02B 2075/1816** (2013.01); **F02F 2001/104** (2013.01)

Citation (examination)  
• JP H08197229 A 19960806 - HONDA MOTOR CO LTD  
• EP 0796926 A1 19970924 - DENSO CORP [JP], et al

Cited by  
DE10018903C2; DE10012787A1; DE10012787B4; DE10153721A1; DE10153721B4; DE10153721C5

Designated contracting state (EPC)  
DE FR

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