

Title (en)  
Pressure die-casting method and products obtained thereby

Title (de)  
Druckgussverfahren und dabei erhaltene Produkte

Title (fr)  
Procédé de coulée sous pression et produits ainsi obtenus

Publication  
**EP 0972593 A1 20000119 (EN)**

Application  
**EP 99810629 A 19990713**

Priority  
JP 19819898 A 19980714

Abstract (en)  
After a cavity 2 of a die-casting mold 1 is evacuated to exclude gas, oxygen gas is blown into the cavity 2, and then an molten metal 5 is forcibly injected into the cavity 2. The cavity 2 is decompressed to a degree of vacuum not more than 100 millibar by evacuation through a suction nozzle 11. The oxygen gas is blown through a nozzle 14 into the cavity 2 so as to increase a pressure of the cavity 2 higher than the atmospheric pressure. When the molten metal 5 is injected into the cavity 2 clarified in this way, inclusion of gas is perfectly prohibited. As a result, an obtained die-cast products is free from defects such as blowholes or porosity caused by inclusion of gas and so useful as a functional member as well as a structural member. <IMAGE>

IPC 1-7  
**B22D 17/14**

IPC 8 full level  
**B22D 17/14** (2006.01)

CPC (source: EP)  
**B22D 17/14** (2013.01)

Citation (search report)

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- [XY] PATENT ABSTRACTS OF JAPAN vol. 004, no. 033 (M - 003) 21 March 1980 (1980-03-21)
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