

Title (en)  
COMBINATION OF CASTING PROCESS AND ALLOY COMPOSITION

Title (de)  
KOMBINATION AUS EINEM GIESSPROZESS UND EINER LEGIERUNGSZUSAMMENSETZUNG

Title (fr)  
COMBINAISON DE PROCÉDÉ DE COULÉE ET DE COMPOSITION D'ALLIAGE

Publication  
**EP 2054179 A4 20110406 (EN)**

Application  
**EP 07808604 A 20070816**

Priority  
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• NO 20063703 A 20060818

Abstract (en)  
[origin: WO2008020763A1] A process for casting a magnesium alloy consisting of 10,00 - 1300 % by weight of aluminium, 0,00 - 10,00 % by weight of zinc, and 5,00 - 13,00 % by weight of aluminium, 10,00 - 22,00 % by weight of zinc, also containing 0,10 - 0,5 % by weight of manganese, and the balance being magnesium and unavoidable impurities, the total impurity level being below 0. % by weight, wherein the alloy is cast in a die in which the temperature is controlled in the range of 150-340 °C, the die is filled in a time which expressed in milliseconds is equal to the product of a number between 2 and 300 multiplied by the average part thickness expressed in millimetre, the static metal pressures being maintained during casting between 20-70 MPa and may subsequently be intensified up to 180 MPa.

IPC 8 full level  
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Citation (search report)  
• [A] FR 2246646 A1 19750502 - NL INDUSTRIES INC [US]  
• See references of WO 2008020763A1

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