

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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