

Title (en)

Production method for high strength die cast product

Title (de)

Verfahren zur Herstellung eines druckgegossenen hochfesten Produktes

Title (fr)

Procédé de fabrication d'un produit coulé sous pression à haute résistance

Publication

EP 0796926 A1 19970924 (EN)

Application

EP 97104527 A 19970317

Priority

JP 6290696 A 19960319

Abstract (en)

An aluminum-silicon eutectic type casting material containing 7.5 to 12 wt% of silicon and at least one of 1.5 to 4.8 wt% of copper and 0.2 to 0.7 wt% of magnesium is cast by a high speed die casting method. After mold release, the resulting die cast product is subjected, after the surface temperature thereof falls to within the range of 250 to 450 DEG C, to at least one of a water cooling treatment which immerses the die cast product into a water tank and an ageing treatment which retains it at a temperature within the range of 150 to 250 DEG C for a predetermined time.

IPC 1-7

C22C 21/02; **B22D 17/00**

IPC 8 full level

F04C 18/02 (2006.01); **B22D 17/00** (2006.01); **B22D 29/00** (2006.01); **B22D 30/00** (2006.01); **C22C 21/02** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP)

B22D 17/00 (2013.01); **C22C 21/02** (2013.01); **C22F 1/043** (2013.01)

Citation (search report)

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- [Y] PATENT ABSTRACTS OF JAPAN vol. 096, no. 005 31 May 1996 (1996-05-31)
- [DY] DATABASE WPI Section Ch Week 8003, Derwent World Patents Index; Class M22, AN 80-04256C, XP002033083
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 347 (M - 641) 13 November 1987 (1987-11-13)
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