

Title (en)

Light metal forging material manufacturing method and forged member manufacturing method using the material

Title (de)

Verfahren zur Herstellung von Schmiedematerial aus Leichtmetall und Herstellung eines geschmiedeten Gegenstandes aus diesem Material

Title (fr)

Procédé de production de matériau de forgeage en métal léger et méthode de fabrication d' un élément forgé à base de ce matériau

Publication

EP 1016477 A3 20010314 (EN)

Application

EP 99125044 A 19991215

Priority

JP 37284098 A 19981228

Abstract (en)

[origin: EP1016477A2] This invention relates to a method for manufacturing a light metal forging material provided as a material to be subjected to a forging process for obtaining a light metal forged member, by charging a light metal molten material into the molding cavity of a specified molding die so as to form a forging material and subjecting the forging material to a specified heat treatment before the forging process, there is generated a blister attributed to internal gas expansion in the material, thereby, in obtaining a finished product made of light metal by forming a forging material and forging the material, a blister associated with heat treatment is reliably prevented from being generated in a product (forged member) through this forging process. <IMAGE>

IPC 1-7

B22D 17/00; **C22F 1/06**

IPC 8 full level

B21J 5/00 (2006.01); **B22D 17/00** (2006.01); **B22D 21/04** (2006.01); **C22C 1/02** (2006.01); **C22C 23/02** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP KR)

C22F 1/00 (2013.01 - KR); **C22F 1/04** (2013.01 - EP); **C22F 1/06** (2013.01 - EP)

Citation (search report)

- [A] US 5037489 A 19910806 - KIRKWOOD DAVID H [GB], et al
- [A] EP 0765700 A1 19970402 - REYNOLDS WHEELS SPA [IT]
- [A] EP 0080787 B1 19870610 & JP H0215620 B2
- [A] US 5800640 A 19980901 - YAMAMOTO YUKIO [JP], et al & JP H06297127 A 19941025 - MAZDA MOTOR [JP]

Cited by

CN109517963A; US8012275B2; CN115647257A; AU2008251005B2; EP2264200A4; US8414717B2; US8329094B2; WO2008138034A1; WO202078923A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1016477 A2 20000705; **EP 1016477 A3 20010314**; JP 2000197956 A 20000718; KR 20000048268 A 20000725; TW 464695 B 20011121

DOCDB simple family (application)

EP 99125044 A 19991215; JP 37284098 A 19981228; KR 19990059536 A 19991220; TW 88122223 A 19991217