

Title (en)
Aluminum alloy casting

Title (de)
Aluminiumlegierungsgussstück

Title (fr)
Pièce coulée en alliage d'aluminium

Publication
EP 0814171 A1 19971229 (EN)

Application
EP 97109128 A 19900306

Priority

- EP 90905277 A 19900306
- US 32014089 A 19890307

Abstract (en)
This invention concerns an aluminum alloy casting characterized by an iron content of less than about 0.5% by weight, and a gas content of less than or equal to 5 milliliters (STP) per 100 grams of aluminum, said casting having a yield strength in tension (0.2% offset) greater than or equal to 110 MPa and a free bend deformation greater than or equal to 25 min.

IPC 1-7
C22C 21/04; C22B 21/06

IPC 8 full level
B22D 17/14 (2006.01); **B22D 17/20** (2006.01); **B22D 17/30** (2006.01); **B22D 17/32** (2006.01); **B22D 41/50** (2006.01); **C22B 21/06** (2006.01);
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B22D 17/32 (2013.01 - EP); **B22D 18/00** (2013.01 - KR); **B22D 41/50** (2013.01 - EP); **C22B 21/06** (2013.01 - EP); **C22C 21/04** (2013.01 - EP)

Citation (search report)

- [A] EP 0258567 A1 19880309 - UNION CARBIDE CORP [US]
- [A] US 4049248 A 19770920 - GJOSTEEN OLE GEORG, et al
- [A] EP 0248459 A1 19871209 - WIJK GIJSBERT WILLEM MEINDERT
- [A] FR 918574 A 19470212
- [A] AT 333452 B 19761125 - ELIN UNION AG [AT]
- [A] US 3087808 A 19630430 - GOTTSCHALK ROY F
- [A] "METALS HANDBOOK, 9 TH ED, VOL 2", 1979, ASM, METALS PARK, OHIO, US, XP002043676
- [A] "METALS HANDBOOK, 9TH ED, VOL 15", 1988, ASM, METALS PARK, OHIO, US, XP002043677
- [A] "SOLIDIFICATION PROCESSING 1987, PROC. 3RD INT. CONF.", 1988, INSTITUTE OF METALS, LONDON, GB, XP002043678
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 168 (C - 236) 3 August 1984 (1984-08-03)

Cited by
CN108543939A; CN111151728A; CN112974784A

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AT CH DE ES FR GB IT LI NL SE

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EP 0814171 A1 19971229; EP 0814171 B1 20021204; AT E174828 T1 19990115; AT E202305 T1 20010715; AT E229090 T1 20021215;
BR 9007214 A 19920324; DE 69032853 D1 19990204; DE 69032853 T2 19990722; DE 69033755 D1 20010726; DE 69033755 T2 20020529;
DE 69034025 D1 20030116; DE 69034025 T2 20030724; EP 0813922 A1 19971229; EP 0813922 B1 20010620; ES 2125221 T3 19990301;
ES 2158405 T3 20010901; ES 2184006 T3 20030401; KR 100187514 B1 19990401; KR 920700809 A 19920810

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DE 69032853 T 19900306; DE 69033755 T 19900306; DE 69034025 T 19900306; EP 97109129 A 19900306; ES 90905277 T 19900306;
ES 97109128 T 19900306; ES 97109129 T 19900306; KR 910701081 A 19910907