

Title (en)

High-strength aluminum alloy for pressure casting and cast aluminum alloy comprising the same

Title (de)

Hochfeste Aluminium-Legierung zum Druckgiessen und daraus gegossene Aluminium-Legierung

Title (fr)

Alliage d'aluminium à haute résistance mécanique pour moulages sous pression et alliage d'aluminium ainsi fondu

Publication

**EP 1096028 A2 20010502 (EN)**

Application

**EP 00309071 A 20001016**

Priority

JP 29957899 A 19991021

Abstract (en)

Disclosed is a high-strength cast aluminum alloy obtained by: casting a high-strength aluminum alloy containing 3.5-4.3 % of Cu, 5.0-7.5 % of Si, 0.10-0.25 % of Mg, not more than 0.2 % of Fe, not more than 0.0003 % of P, and the balance comprising Al and unavoidable impurities; and subjecting the alloy thus cast to a T6 treatment. This cast alloy has finer eutectic Si grains by virtue of such a very low P content, enjoys casting and economic merits that are competitive with existing alloys, and satisfies higher mechanical requirements as to tensile strength, elongation, 0.2% proof strength and impact value.

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**C22C 21/04**

IPC 8 full level

**C22C 21/02** (2006.01); **C22C 21/04** (2006.01)

CPC (source: EP)

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CN106917014A; CN103643088A; CN110042281A

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**EP 1096028 A2 20010502**; **EP 1096028 A3 20020206**; EP 1347066 A2 20030924; EP 1371741 A2 20031217; JP 2001123239 A 20010508

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