

Title (en)

Heat resistant magnesium alloy.

Title (de)

Hitzebeständige Magnesiumlegierung.

Title (fr)

Alliage à base de magnésium résistant à la chaleur.

Publication

EP 0661384 A1 19950705 (EN)

Application

EP 94108544 A 19940603

Priority

JP 30403193 A 19931203

Abstract (en)

A magnesium alloy includes 1.0 to 3.0% by weight of Al ("a"), 0.25 to 3.0% by weight of Zn ("b") and 0.5 to 4.0% by weight of R.E.: wherein when "b" is in a range, $0.25 \leq "b" \leq 1.0$, "a" and "c" satisfy a relationship, $"c" \leq "a" + 1.0$; and when "b" is in a range, $1.0 \leq "b" \leq 3.0$, "a," "b" and "c" satisfy a relationship, $"c" \leq "a" + "b" \leq (1/2)"c" + 4.0$; in order to further improve creep properties at elevated temperatures while maintaining enhanced tensile strength at room temperature and up to 100 DEG C at least. <IMAGE>

IPC 1-7

C22C 23/00; C22C 23/02; C22C 23/04; C22C 23/06

IPC 8 full level

C22C 23/00 (2006.01)

CPC (source: EP)

C22C 23/00 (2013.01)

Citation (search report)

- [X] EP 0524644 A1 19930127 - TOYOTA MOTOR CO LTD [JP]
- [A] EP 0470599 A1 19920212 - YOSHIDA KOGYO KK [JP]
- [A] US 5139077 A 19920818 - DAS SANTOSH K [US], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0661384 A1 19950705; **EP 0661384 B1 19970402**; AU 6319394 A 19950608; AU 666268 B2 19960201; CA 2124512 A1 19950604; CA 2124512 C 20010220; CN 1041000 C 19981202; CN 1119679 A 19960403; DE 69402406 D1 19970507; DE 69402406 T2 19970828

DOCDB simple family (application)

EP 94108544 A 19940603; AU 6319394 A 19940518; CA 2124512 A 19940527; CN 94106523 A 19940603; DE 69402406 T 19940603