

Title (en)

WROUGHT ALUMINIUM ALLOY OF THE TYPE AL-CU-MG HAVING A HIGH STRENGTH IN THE TEMPERATURE RANGE BETWEEN 0 AND 2500 C

Publication

EP 0224016 B1 19890906 (DE)

Application

EP 86114458 A 19861018

Priority

CH 469685 A 19851031

Abstract (en)

[origin: US4772342A] A wrought Al/Cu/Mg type aluminum alloy of high strength in the temperature range between 0 and 250 DEG C., having the following composition: Cu=5.0 to 7.0% by weight Mg=0.3 to 0.8% by weight Ag=0.2 to 1.0% by weight Mn=0.3 to 1.0% by weight Zr=0.1 to 0.25% by weight V=0.05 to 0.15% by weight Si<0.10% by weight In this artificially aged state, the yield strength (0.2% limit) reached is more than 500 MPa at room temperature, almost 400 MPa at 200 DEG C. and about 300 MPa at 250 DEG C. At 180 DEG C., the creep strength is still more than 250 MPa after 500 hours.

IPC 1-7

C22C 21/16; C22F 1/057

IPC 8 full level

C22C 21/12 (2006.01)

CPC (source: EP US)

C22C 21/12 (2013.01 - EP US)

Cited by

EP0989195A1; US5259897A; EP0756016A1; WO9839494A1

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 0224016 A1 19870603; EP 0224016 B1 19890906; CH 668269 A5 19881215; DE 3665487 D1 19891012; JP S62112748 A 19870523; US 4772342 A 19880920

DOCDB simple family (application)

EP 86114458 A 19861018; CH 469685 A 19851031; DE 3665487 T 19861018; JP 25708086 A 19861030; US 92268086 A 19861024