

Title (en)
ALUMINIUM-LITHIUM ALLOYS AND METHOD OF PRODUCING THESE

Publication
EP 0266741 B1 19911227 (EN)

Application
EP 87116166 A 19871103

Priority
• US 92705486 A 19861104
• US 92705886 A 19861104

Abstract (en)
[origin: EP0266741A1] Disclosed is a method of producing an unrecrystallized wrought aluminum-lithium product having improved levels of strength and fracture toughness. The method comprises the steps of providing a body of a lithium containing aluminum base alloy; heating the body to a hot working or hot rolling temperature and hot working or hot rolling the body to a first product. The product is cold worked or cold rolled to a second wrought product and then reheated or reheated and hot rolled while avoiding substantial recrystallization thereof, the reheating or the hot rolling adapted to relieve stored energy capable of causing recrystallization during a subsequent heat treating step. The product is then solution heat treated, quenched and aged to provide a substantially unrecrystallized product having improved levels of strength and fracture toughness.

IPC 1-7
C22F 1/04; **C22F 1/047**; **C22F 1/053**; **C22F 1/057**

IPC 8 full level
C22F 1/04 (2006.01); **C22F 1/047** (2006.01); **C22F 1/053** (2006.01); **C22F 1/057** (2006.01)

CPC (source: EP)
C22F 1/04 (2013.01); **C22F 1/047** (2013.01); **C22F 1/053** (2013.01); **C22F 1/057** (2013.01)

Cited by
EP0460809A1; EP2971213A4; CN117144213A; FR2675816A1; EP0368005A1; CN110546288A; US10724127B2; WO2018144568A1

Designated contracting state (EPC)
CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0266741 A1 19880511; **EP 0266741 B1 19911227**; BR 8705923 A 19880614; CA 1321126 C 19930810; DE 3775522 D1 19920206; JP H01501325 A 19890511; WO 8803575 A1 19880519

DOCDB simple family (application)
EP 87116166 A 19871103; BR 8705923 A 19871104; CA 550872 A 19871103; DE 3775522 T 19871103; JP 50714887 A 19871104; US 8702918 W 19871104