

Title (en)  
ALLOY TOUGHENING METHOD

Publication  
**EP 0222002 B1 19920916 (EN)**

Application  
**EP 86903818 A 19860515**

Priority  
• US 73556785 A 19850517  
• US 86054686 A 19860507

Abstract (en)  
[origin: WO8606748A1] A method of treating a metallurgical object containing metastable featureless regions adversely affecting toughness, comprising heating the object for transforming the regions at least sufficiently out of their metastable state to improve toughness. A method of treating metal particles containing metastable featureless regions which adversely affect toughness when the particles are bonded together to form a metallurgical object, comprising heating the particles for transforming the regions at least sufficiently out of their metastable state to improve toughness in metallurgical objects formed by bonding the particles together.

IPC 1-7  
**C21D 1/34**; **C22C 21/00**

IPC 8 full level  
**B22F 1/142** (2022.01); **B22F 3/24** (2006.01); **C21D 1/00** (2006.01); **C22C 1/04** (2006.01)

CPC (source: EP US)  
**B22F 1/142** (2022.01 - EP US); **B22F 3/24** (2013.01 - EP); **C21D 1/00** (2013.01 - EP US); **C22C 1/0416** (2013.01 - EP)

Citation (examination)  
• Scripta Metallurgical vol. 18, 1984 D.J. Skinner et al, " High Strength Al-Fe-V Alloys at Elevated Temperatures Produced by Rapid Quenching from the Melt ", pp. 905 - 909  
• Scripta Metallurgical vol. 18, 1984 Kokazaki et al, " Al-Fe-Zr Alloys for High Temperature Applications Produced by Rapid Quenching from the Melt ", pp. 911-916

Cited by  
US2022380868A1

Designated contracting state (EPC)  
FR GB

DOCDB simple family (publication)  
**WO 8606748 A1 19861120**; EP 0222002 A1 19870520; EP 0222002 A4 19880928; EP 0222002 B1 19920916

DOCDB simple family (application)  
**US 8601050 W 19860515**; EP 86903818 A 19860515