

Title (en)

Process for manufacturing dispersion-cured metal alloys.

Title (de)

Verfahren zur Herstellung dispersionsgehärteter Metall-Legierungen.

Title (fr)

Procédé pour la fabrication d'alliages métalliques renforcés par dispersion.

Publication

EP 0223196 A2 19870527 (DE)

Application

EP 86115714 A 19861112

Priority

DE 3540255 A 19851113

Abstract (en)

[origin: US4728359A] A method of producing a dispersion-hardened metal alloy in which oxide particles are distributed uniformly in the metal matrix. The oxide particles, in finely divided form, are added to a solution of the metal along with a degglomerating agent so as to be dispersed in the solution as a colloid. The colloid suspension is then atomized and reduced to form a powder of the alloy with the oxide particles uniformly dispersed therein.

Abstract (de)

Verfahren zur Herstellung einer dispersionsgehärteten Metall-Legierung, insbesondere mittels Oxidpartikeln, die gleichmäßig und mit geringem Abstand in der Metallmatrix verteilt sind, und so eine reproduzierbare Härtung der Legierung erzeugen.

IPC 1-7

C22C 1/10

IPC 8 full level

B22F 9/08 (2006.01); **B22F 9/20** (2006.01); **C22C 1/10** (2006.01)

CPC (source: EP US)

B22F 9/20 (2013.01 - EP US); **C22C 1/1026** (2013.01 - EP US); **Y10S 75/956** (2013.01 - US)

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Designated contracting state (EPC)

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EP 86115714 A 19861112; DE 3540255 A 19851113; JP 26680286 A 19861111; US 92695686 A 19861004