

Title (en)

Process for preparing microcrystalline to amorphous metal- or metal alloy powder and metals or alloys dissolved in organic solvents without a protective colloid.

Title (de)

Verfahren zur Herstellung von mikrokristallinen bis amorphen Metall- bzw. Legierungspulvern und ohne Schutzkolloid in organischen Solventien gelösten Metallen bzw. Legierungen.

Title (fr)

Procédé de préparation de poudre d'un métal ou d'un alliage microcristallin à amorphe, ainsi que des métaux ou alliages dissous dans des solvants organiques sans colloïde protecteur.

Publication

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Application

EP 90119546 A 19901012

Priority

DE 3934351 A 19891014

Abstract (en)

[origin: CA2027257A1] The invention relates to a process for the preparation of finely divided microcrystalline-to-amorphous metal and/or alloy powders aid of metals and/or alloys in the form of colloidal solutions in organic solvents, which is process is characterized in that in inert organic solvents metal salts individually or in admixture are reacted with alkaline metal or alkaline earth metal hydrides which are maintained in solution by means of organoboron or organogallium complexing agents, or with tetraalkylammonium triorganoborohydrate, respectively.
[origin: CA2027257A1] The invention relates to a process for the preparation of finely divided microcrystalline-to- amorphous metal and/or alloy powders aid of metals and/or alloys in the form of colloidal solutions in organic solvents, which is process is characterized in that in inert organic solvents metal salts individually or in admixture are reacted with alkaline metal or alkaline earth metal hydrides which are maintained in solution by means of organoboron or organogallium complexing agents, or with tetraalkylammonium triorganoborohydrate, respectively.

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IPC 8 full level

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CPC (source: EP US)

B22F 9/002 (2013.01 - EP US); **B22F 9/24** (2013.01 - EP US)

Citation (examination)

EP 0379062 A2 19900725 - STUDIENGESELLSCHAFT KOHLE MBH [DE]

Cited by

US5330687A; US6491842B1; EP1002578A3; EP0744234A1; US5951739A; DE19756880A1; US6066410A; WO9941758A1; WO9305877A1; EP2060323A1; WO2004001776A1; WO9324263A1; US7713910B2; US8017548B2

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