

Title (en)
METHOD FOR PRODUCING METAL-BASED MATERIALS FOR MAGNETIC COOLING OR HEAT PUMPS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON METALLBASIERTEN MATERIALIEN FÜR DIE MAGNETISCHE KÜHLUNG ODER WÄRMEPUMPEN

Title (fr)
PROCÉDÉ DE FABRICATION DE MATÉRIAUX À BASE DE MÉTAL POUR LE REFROIDISSEMENT MAGNÉTIQUE OU POUR POMPES À CHALEUR

Publication
EP 2277180 A1 20110126 (DE)

Application
EP 09738093 A 20090427

Priority

- EP 2009055024 W 20090427
- EP 08155259 A 20080428
- EP 09738093 A 20090427

Abstract (en)
[origin: WO2009133049A1] The method for producing metal-based materials for magnetic cooling or heat pumps comprises the following steps:
a) reacting chemical elements and/or alloys in a stoichiometry which corresponds to the metal-based material in the solid and/or liquid phase,
b) optionally converting the reaction product from step a) into a solid, c) sintering and/or tempering the solid from step a) or b), d) quenching the sintered and/or tempered solid from step c) at a cooling speed of at least 100 K/s.

IPC 8 full level
H01F 1/01 (2006.01)

CPC (source: EP US)
B22F 3/1028 (2013.01 - EP US); **C22C 1/047** (2023.01 - EP US); **H01F 1/015** (2013.01 - EP US); **B22F 2009/041** (2013.01 - EP US);
B22F 2998/10 (2013.01 - EP US); **C22C 2200/04** (2013.01 - EP US); **C22C 2202/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2009133049A1

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AL BA RS

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AU 2014203376 A1 20140710; BR PI0911771 A2 20151006; CA 2721621 A1 20091105; CN 102017025 A 20110413;
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EP 2009055024 W 20090427; AU 2009242216 A 20090427; AU 2014203376 A 20140620; BR PI0911771 A 20090427; CA 2721621 A 20090427;
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