

Title (en)

APPARATUS AND METHOD OF PRODUCING A FINE GRAINED METAL SHEET FOR FORMING NET-SHAPE COMPONENTS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINES FEINKÖRNIGEN METALLBLECHS ZUR FORMUNG NETZFÖRMIGER KOMPONENTEN

Title (fr)

APPAREIL ET PROCÉDÉ DE PRODUCTION D'UNE FEUILLE MÉTALLIQUE À GRAINS FINS POUR FORMER DES COMPOSANTS DE FORME NETTE

Publication

EP 2132352 A1 20091216 (EN)

Application

EP 08795800 A 20080227

Priority

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- US 67923907 A 20070227

Abstract (en)

[origin: US2008000557A1] A method and apparatus for producing ultra-fine grained magnesium metal alloy material sheets. The apparatus molds and rapidly solidifies a metal alloy material to form a fine grain precursor. The precursor is then subjected to deformation strains that alter the grain structure of the precursor so as to form a ultra fine grained structure in sheet form. The sheet form may then be subjected to superplastic forming to form a net shaped article.

IPC 8 full level

C22F 1/06 (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2008140849A1

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US 67923907 A 20070227; CN 200880012863 A 20080227; EP 08795800 A 20080227; IL 20060709 A 20090827; JP 2009551824 A 20080227; KR 20097020306 A 20080227; US 2008055151 W 20080227