

Title (en)

A method for manufacturing a MMC component

Title (de)

Verfahren zur Herstellung einer MMC-Komponente

Title (fr)

Procédé de fabrication d'un composit MMC

Publication

**EP 2808107 A1 20141203 (EN)**

Application

**EP 13169963 A 20130531**

Priority

EP 13169963 A 20130531

Abstract (en)

A method for manufacturing an wear resistant component comprising the steps: - providing a capsule defining at least a portion of the final shape of the component; - providing a powder mixture comprising tungsten carbide particles and particles of a nickel-based or a cobalt based alloy: - filling at least a portion of said form with said powder mixture; - subjecting said form to Hot Isostatic Pressing (HIP) at a predetermined temperature, a predetermined isostatic pressure and for a predetermined time so that the particles of the nickel-based or the chromium based alloy bond metallurgical to each other: characterized in that the tungsten carbide particles have a size of #Y 250 µm and that the mean size of the nickel based or chromium based alloy is #= 1/5 of the size of the tungsten carbide particles.

IPC 8 full level

**B22F 3/15** (2006.01); **C22C 29/08** (2006.01)

CPC (source: EP)

**B22F 3/15** (2013.01); **C22C 29/08** (2013.01); **C22C 32/0052** (2013.01); **C22C 29/067** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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