

Title (en)

MACHINE COMPONENT USING POWDER COMPACT AND METHOD FOR PRODUCING SAME

Title (de)

MASCHINENKOMPONENTE MIT PULVERPRESSKÖRPER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

COMPOSANT DE MACHINE UTILISANT UN COMPRIMÉ DE POUDRE ET SON PROCÉDÉ DE PRODUCTION

Publication

**EP 3088106 A1 20161102 (EN)**

Application

**EP 14873470 A 20141126**

Priority

- JP 2013269343 A 20131226
- JP 2014180181 A 20140904
- JP 2014229131 A 20141111
- JP 2014081250 W 20141126

Abstract (en)

A machine part having a radial crushing strength of more than 100 MPa is manufactured by: press forming raw material powder containing, as a main raw material, metal powder capable of forming an oxide film, to thereby provide a green compact; and forming the oxide film between particles of the metal powder forming the green compact through steam treatment.

IPC 8 full level

**B22F 3/24** (2006.01); **B22F 5/00** (2006.01); **B22F 1/102** (2022.01)

CPC (source: EP US)

**B22F 3/02** (2013.01 - US); **B22F 3/24** (2013.01 - EP US); **B22F 1/102** (2022.01 - EP US); **B22F 2003/023** (2013.01 - US); **B22F 2201/05** (2013.01 - EP US)

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)

BA ME

DOCDB simple family (publication)

**EP 3088106 A1 20161102**; **EP 3088106 A4 20170809**; CN 105828988 A 20160803; JP 2016053210 A 20160414; US 2016311026 A1 20161027

DOCDB simple family (application)

**EP 14873470 A 20141126**; CN 201480068394 A 20141126; JP 2014229131 A 20141111; US 201415101958 A 20141126