

Title (en)

Dry powder metal compositions and methods of making and using the same

Title (de)

Trockenpulver-Metallzusammensetzungen und Verfahren zu dessen Herstellung und Verwendung

Title (fr)

Compositions métalliques en poudre sèche et ses procédés de fabrication et d'utilisation

Publication

EP 2027954 A2 20090225 (EN)

Application

EP 08160951 A 20080723

Priority

US 82842007 A 20070726

Abstract (en)

The present invention provides powder metal compositions and methods of making and using the same. Powder metal compositions according to the invention are substantially dry and include a blend of base metal particles and a pressing aid. The pressing aid includes a micronized deformable solid material and a high melt point lubricating material, which have been pre-mixed or co-ground with each other. Powder metal compositions according to the present invention are particularly useful in applications where the pre-sintered density of the pressed metal part is less than or equal to about 6.9 g/cm³.

IPC 8 full level

B22F 1/00 (2006.01); **B22F 1/12** (2022.01)

CPC (source: EP US)

B22F 1/12 (2022.01 - EP US)

Citation (applicant)

- US 2007048166 A1 20070301 - HAMMOND DENNIS L [US]
- US 6093761 A 20000725 - SCHOFALVI KARL-HEINZ [US]
- US 6679935 B2 20040120 - HAMMOND DENNIS L [US]

Designated contracting state (EPC)

AT DE ES FR GB

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2027954 A2 20090225; **EP 2027954 A3 20090513**; US 2009028742 A1 20090129

DOCDB simple family (application)

EP 08160951 A 20080723; US 82842007 A 20070726