

Title (en)
SINTER METAL PARTS WITH HOMOGENEOUS DISTRIBUTION OF NON-HOMOGENEOUSLY MELTING COMPONENTS AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
SINTERMETALLTEILE MIT HOMOGENER VERTEILUNG NICHT HOMOGEN SCHMELZENDER KOMPONENTEN, SOWIE VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
PIECES EN METAL FRITTE AYANT UNE REPARTITION HOMOGENE DE COMPOSANTES A FUSION NON HOMOGENE, ET PROCEDE DESTINE A LEUR PRODUCTION

Publication
EP 1412113 B1 20041027 (DE)

Application
EP 02754408 A 20020722

Priority
• EP 02754408 A 20020722
• DE 0202692 W 20020722
• DE 10135485 A 20010720
• EP 01127413 A 20011123

Abstract (en)
[origin: EP1281461A1] Production of components and semi-finished products comprises: preparing a powder material made from light metal and alloying components, especially wear-resistant carriers; isostatically pressing into a molded body; and extruding close to the sintering temperature of the light metal. Preferred Features: The light metal is aluminum. The alloying components comprise 10-30 wt.% silicon, 0-3 wt.% magnesium, 0-5 wt.% copper, 0-7 wt.% zinc, and 0-7 wt.% iron. The wear-resistant carriers are selected from silicon and/or hard material particle additives, especially oxides, carbides and silicates in an amount of 0-30 wt.%.

IPC 1-7
B22F 3/20

IPC 8 full level
B22F 3/20 (2006.01); **B22F 3/15** (2006.01); **C22C 1/04** (2006.01)

CPC (source: EP KR US)
B22F 3/20 (2013.01 - EP KR US); **C22C 1/0416** (2013.01 - EP US); **B22F 2003/206** (2013.01 - EP US); **B22F 2005/001** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP KR US)

EP US

1. **B22F 2998/00 + B22F 7/06**
2. **B22F 2998/00 + C22C 32/00**
3. **B22F 2998/10 + B22F 3/15 + B22F 3/20**
4. **B22F 2998/10 + B22F 3/04 + B22F 3/20**
5. **B22F 2999/00 + B22F 1/00 + C22C 32/00 + C22C 47/14**
6. **B22F 2998/10 + B22F 1/00 + B22F 3/20**

KR

1. **B22F 2998/10 + B22F 1/00 + B22F 3/20**
2. **B22F 2999/00 + B22F 1/00 + C22C 32/00 + C22C 47/14**

Cited by
DE102006031366C5; DE202008001976U1; DE202008001976U9; US11426263B2

DOCDB simple family (publication)
EP 1281461 A1 20030205; EP 1281461 B1 20040901; AT E275015 T1 20040915; AT E280647 T1 20041115; BR 0211267 A 20040803; CA 2438397 A1 20030213; DE 10135485 A1 20030206; DE 10293319 D2 20040701; DE 50103474 D1 20041007; DE 50201420 D1 20041202; EP 1412113 A2 20040428; EP 1412113 B1 20041027; ES 2227044 T3 20050401; ES 2231721 T3 20050516; HU P0401206 A2 20041028; JP 2004536232 A 20041202; KR 20040030054 A 20040408; US 2004208772 A1 20041021; WO 03011501 A2 20030213; WO 03011501 A3 20030501

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EP 01127413 A 20011123; AT 01127413 T 20011123; AT 02754408 T 20020722; BR 0211267 A 20020722; CA 2438397 A 20020722; DE 0202692 W 20020722; DE 10135485 A 20010720; DE 10293319 T 20020722; DE 50103474 T 20011123; DE 50201420 T 20020722; EP 02754408 A 20020722; ES 01127413 T 20011123; ES 02754408 T 20020722; HU P0401206 A 20020722; JP 2003516724 A 20020722; KR 20047000580 A 20020722; US 48364504 A 20040113