

Title (en)  
METHOD FOR MANUFACTURING SINTERED COMPACT, AND SINTERED COMPACT

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES SINTERKÖRPERS UND SINTERKÖRPER

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE PIÈCE FRITTÉE, ET PIÈCE FRITTÉE

Publication  
**EP 3441161 A1 20190213 (EN)**

Application  
**EP 17779150 A 20170404**

Priority  
• JP 2016077069 A 20160407  
• JP 2017014145 W 20170404

Abstract (en)  
A sintered body manufacturing method includes: a preparation step of preparing a raw material powder containing an iron-based metal powder; a molding step of subjecting the raw material powder to uniaxial pressing using a die to produce a green compact having an overall average relative density of 93% or more; a machining step of machining the green compact to produce a machined compact; and a sintering step of sintering the machined compact to obtain a sintered body.

IPC 8 full level  
**B22F 3/10** (2006.01); **B22F 1/06** (2022.01); **B22F 1/10** (2022.01); **B22F 3/02** (2006.01); **B22F 3/03** (2006.01); **B22F 3/24** (2006.01); **B22F 5/08** (2006.01); **C22C 33/02** (2006.01); **C22C 38/00** (2006.01)

CPC (source: EP US)  
**B22F 1/06** (2022.01 - EP US); **B22F 1/10** (2022.01 - EP US); **B22F 3/10** (2013.01 - US); **B22F 5/008** (2013.01 - EP US); **B22F 5/06** (2013.01 - EP US); **B22F 5/08** (2013.01 - US); **B22F 5/085** (2013.01 - EP US); **B22F 5/10** (2013.01 - EP US); **C22C 33/02** (2013.01 - US); **C22C 33/0264** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **B22F 3/03** (2013.01 - EP US); **B22F 2003/026** (2013.01 - EP US); **B22F 2003/247** (2013.01 - EP US); **B22F 2009/0828** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)

EP  
1. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/30**  
2. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/05**  
3. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/01**  
4. **B22F 2998/10 + B22F 2009/0828 + B22F 1/10 + B22F 3/02 + B22F 3/10 + B22F 2003/247**  
US  
1. **B22F 2998/10 + B22F 2009/0828 + B22F 1/10 + B22F 3/02 + B22F 2003/247 + B22F 3/10**  
2. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/30**  
3. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/05**  
4. **B22F 2999/00 + B22F 2009/0824 + B22F 2201/01**  
5. **B22F 2998/10 + B22F 2009/0828 + B22F 1/10 + B22F 3/02 + B22F 3/10 + B22F 2003/247**

Cited by  
DE202024100893U1

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)  
**US 2018236548 A1 20180823**; CN 107921535 A 20180417; CN 107921535 B 20200630; EP 3441161 A1 20190213; EP 3441161 A4 20190213; EP 3441161 B1 20240717; JP 2017186625 A 20171012; JP 6509771 B2 20190508; WO 2017175772 A1 20171012

DOCDB simple family (application)  
**US 201715750703 A 20170404**; CN 201780002715 A 20170404; EP 17779150 A 20170404; JP 2016077069 A 20160407; JP 2017014145 W 20170404