

Title (en)  
SINTERED PART AND METHOD FOR PRODUCING SAME

Title (de)  
SINTERTEIL UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)  
PIÈCE FRITTÉE ET SON PROCÉDÉ DE PRODUCTION

Publication  
**EP 4072752 A1 20221019 (DE)**

Application  
**EP 20839232 A 20201211**

Priority  
• DE 102019134153 A 20191212  
• EP 2020085732 W 20201211

Abstract (en)  
[origin: WO2021116391A1] The invention relates to a sintered part (1) which is made of a metal material and is produced by compacting a particulate metal material in order to form a green body (2) and subsequently sintering same. The sintered part (1) has at least one base (3) with a first end face (5) which faces in a first axial direction (4) and a second end face (7) which faces in a second axial direction (6), said end faces being produced in a press (8) for producing the green body (2) by applying at least one punch (9) which can be moved along the axial directions (4, 6). The sintered part (1) has an elevation (12) which extends from the first end face (5) towards one end (10) at least in the axial direction (4, 6) over a first height (11), and the elevation (12) has a first width (14) which extends transversely to the axial direction (4, 6) in a radial direction (13) and at least some portions of which are smaller than 0.8 millimeters, wherein at least some portions of the sintered part (1) have a first density (15) along the first width (14), said density equaling at least 87% of the full material density.

IPC 8 full level  
**B22F 3/02** (2006.01); **B22F 3/10** (2006.01); **B22F 3/16** (2006.01); **B22F 3/18** (2006.01); **B22F 5/00** (2006.01)

CPC (source: EP US)  
**B22F 3/164** (2013.01 - EP US); **B22F 3/24** (2013.01 - US); **B22F 5/00** (2013.01 - US); **B22F 5/10** (2013.01 - EP); **B22F 2003/166** (2013.01 - EP US); **B22F 2005/005** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP); **C22C 2202/02** (2013.01 - EP)

C-Set (source: EP)  
1. **B22F 2998/10** + **B22F 3/02** + **B22F 3/10** + **B22F 3/02** + **B22F 3/18**  
2. **B22F 2999/00** + **B22F 2003/166** + **B22F 3/045** + **B22F 3/02** + **B22F 3/18**  
3. **B22F 2999/00** + **B22F 2005/005** + **C22C 2202/02**

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)  
**DE 102019134153 A1 20210617**; CN 115052697 A 20220913; EP 4072752 A1 20221019; JP 2023505555 A 20230209; JP 7477612 B2 20240501; US 2023026312 A1 20230126; WO 2021116391 A1 20210617

DOCDB simple family (application)  
**DE 102019134153 A 20191212**; CN 202080096554 A 20201211; EP 2020085732 W 20201211; EP 20839232 A 20201211; JP 2022535467 A 20201211; US 202017784412 A 20201211