

Title (en)  
METHOD OF MANUFACTURING OF A POWDER-METALLURGICAL COMPONENT, INCLUDING DRYING WITH GAS FLOW BEFORE SINTERING

Title (de)  
VERFAHREN ZUM HERSTELLEN EINER PULVERMETALLURGISCHEN KOMPONENTE, EINSCHLIESSLICH TROCKNEN MIT GASSTRÖMUNG VOR DEM SINTERN

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN COMPOSANT PAR MÉTALLURGIE DES POUDRES, COMPRENANT UN SÉCHAGE PAR FLUX DE GAZ AVANT FRITTAGE

Publication  
**EP 4069451 A1 20221012 (EN)**

Application  
**EP 20816479 A 20201203**

Priority  
• EP 19213534 A 20191204  
• EP 2020084453 W 20201203

Abstract (en)  
[origin: WO2021110830A1] The invention relates to a method of manufacturing a powder metallurgical component (21) comprising at least one longitudinally extending channel (22). A powder mixture comprising metal powder (11) and a binder (12) is prepared and transferred to a processing equipment (31) comprising a die (32). It is then formed into a green body (20) via the die. The green body (20) is dried by guiding a flow of gas (G) through the at least one longitudinally extending channel (22), and the dried green body (20) is sintered or oxidized to obtain the final component. The invention further relates to a drying tool (40) having a plurality of nozzles (44) used to guide the flow of gas into longitudinal channels of the green body during drying.

IPC 8 full level  
**B22F 1/10** (2022.01); **B22F 3/20** (2006.01); **F26B 3/06** (2006.01); **F26B 21/00** (2006.01)

CPC (source: EP US)  
**B22F 1/10** (2022.01 - EP US); **B22F 3/20** (2013.01 - EP US); **F26B 21/004** (2013.01 - EP); **F26B 21/006** (2013.01 - EP); **B22F 3/10** (2013.01 - EP); **B22F 3/1021** (2013.01 - EP); **B22F 3/1039** (2013.01 - EP); **B22F 2201/00** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP)

Citation (search report)  
See references of WO 2021110830A1

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)  
**WO 2021110830 A1 20210610**; CN 114761156 A 20220715; EP 4069451 A1 20221012

DOCDB simple family (application)  
**EP 2020084453 W 20201203**; CN 202080083993 A 20201203; EP 20816479 A 20201203