

Title (en)

METHOD FOR SINTERING A MULTICOMPONENT OBJECT TO BE SINTERED, ELECTRIC MACHINE, AND ELECTRIC VEHICLE

Title (de)

VERFAHREN ZUM SINTERN EINES MEHRKOMPONENTIGEN SINTERZEUGS, ELEKTRISCHE MASCHINE UND ELEKTRISCHES FAHRZEUG

Title (fr)

PROCÉDÉ DE FRITTAGE D'UN PRODUIT À FRITTER À PLUSIEURS COMPOSANTS, MACHINE ÉLECTRIQUE ET VÉHICULE ÉLECTRIQUE

Publication

EP 3824534 A1 20210526 (DE)

Application

EP 19778798 A 20190906

Priority

- EP 18197125 A 20180927
- EP 2019073799 W 20190906

Abstract (en)

[origin: WO2020064299A1] The invention relates to a method for sintering a multicomponent object to be sintered. A first component made of a first material is printed with recesses for a second component, and the second component made of a second material is inserted into the recesses of the first component. The first and second component are shrunk fit onto each other by means of sintering. The electric machine has a rotor, which is made of rotor laminations produced using a method according to one of the aforementioned claims, and the electric vehicle is a hybrid electric airplane in particular and has such an electric machine.

IPC 8 full level

H02K 15/02 (2006.01); **B22F 3/00** (2021.01); **B22F 3/10** (2006.01); **B22F 5/00** (2006.01); **B22F 5/08** (2006.01); **B22F 7/06** (2006.01); **B23K 20/02** (2006.01); **B33Y 10/00** (2015.01); **B33Y 40/00** (2020.01); **B33Y 80/00** (2015.01)

CPC (source: EP US)

B22F 3/10 (2013.01 - EP); **B22F 5/08** (2013.01 - EP US); **B22F 7/062** (2013.01 - EP US); **B33Y 10/00** (2014.12 - EP US); **B33Y 40/00** (2014.12 - EP US); **B33Y 80/00** (2014.12 - EP US); **H02K 3/493** (2013.01 - EP); **H02K 15/02** (2013.01 - EP US); **B22F 2005/005** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP); **Y02T 10/64** (2013.01 - EP)

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)

EP 3629453 A1 20200401; CN 112752628 A 20210504; CN 112752628 B 20230915; EP 3824534 A1 20210526; US 2021379656 A1 20211209; WO 2020064299 A1 20200402

DOCDB simple family (application)

EP 18197125 A 20180927; CN 201980062626 A 20190906; EP 19778798 A 20190906; EP 2019073799 W 20190906; US 201917280437 A 20190906