Title (en)

BATCH FURNACE FOR ANNEALING PRODUCT AND METHOD FOR HEAT TREATMENT

Title (de)

CHARGENOFEN FÜR GLÜHGUT UND VERFAHREN ZUR WÄRMEBEHANDLUNG

Title (fr)

FOURS À CHARGE POUR PRODUIT INCANDESCENT ET PROCÉDÉ DE TRAITEMENT DE LA CHALEUR

Publication

EP 3282024 B1 20191113 (DE)

Application

EP 17185513 A 20170809

Priority

DE 102016114841 A 20160810

Abstract (en)

[origin: US2018044746A1] A batch furnace for annealing material, in particular a single chamber furnace or single coil furnace, with a furnace housing. The batch furnace has a closable charging opening, a receiving chamber for receiving furnace material, and a device for convective heat transfer onto the furnace material by a heat transfer medium. The batch furnace includes at least one fan, which is arranged in the furnace housing, at least one heating device for the heat transfer medium and/or at least one inlet for an externally heated heat transfer medium, wherein the heating device and/or the inlet is arranged directly in front of the intake side or directly behind the pressure side of the fan or circumferentially in an annular gap between the fan and the furnace housing, and a receiving chamber for the furnace material, which is arranged on the pressure side of the fan.

IPC 8 full level

C21D 9/52 (2006.01); **C21D 1/40** (2006.01); **C21D 1/767** (2006.01); **C21D 9/54** (2006.01); **C21D 9/68** (2006.01); **F24C 15/32** (2006.01); **F27B 17/00** (2006.01); **F27D 7/04** (2006.01)

CPC (source: EP US)

C21D 1/40 (2013.01 - EP US); **C21D 1/767** (2013.01 - EP US); **C21D 9/525** (2013.01 - EP US); **C21D 9/54** (2013.01 - EP US); **C21D 9/68** (2013.01 - EP US); **F24C 15/325** (2013.01 - US); **F27B 17/0016** (2013.01 - EP US); F27D 2007/045 (2013.01 - EP US)

Cited by

WO2023173153A1

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

DOCDB simple family (publication)

EP 3282024 A1 20180214; **EP 3282024 B1 20191113**; CN 207227489 U 20180413; DE 102016114841 A1 20180215; PL 3282024 T3 20200518; US 11066714 B2 20210720; US 2018044746 A1 20180215

DOCDB simple family (application)

EP 17185513 A 20170809; CN 201720613968 U 20170526; DE 102016114841 A 20160810; PL 17185513 T 20170809; US 201715672907 A 20170809