

Title (en)

METHOD AND DEVICE FOR PRODUCING CERAMICS AND CERAMIC PRODUCT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON KERAMIKEN UND KERAMISCHES PRODUKT

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE CÉRAMIQUES ET PRODUIT CÉRAMIQUE

Publication

EP 4304857 A1 20240117 (DE)

Application

EP 22714404 A 20220311

Priority

- DE 102021106117 A 20210312
- DE 102021130349 A 20211119
- EP 2022056389 W 20220311

Abstract (en)

[origin: WO2022189655A1] The present invention relates to a method and a device for producing ceramics and to a ceramic product, the method comprising the following steps: radiating light onto a ceramic starting material in order to heat the ceramic starting material at least in some regions and, as a result, to produce a ceramic product, wherein the radiation of light is carried out simultaneously on a surface of at least 0.1 mm² and/or on more than 20% of the surface of the ceramic starting material, and wherein the power density of the radiated light is less than 800 W/cm², the device comprising: - at least one receiving means for receiving a ceramic starting material and - at least one light source for radiating light onto the ceramic starting material that is or can be received in the receiving means, wherein preferably the device is configured to radiate the light onto the ceramic starting material in order to heat the ceramic starting material at least in some regions and, as a result, to produce a ceramic product, and wherein the receiving means has an insulation.

IPC 8 full level

B32B 18/00 (2006.01); **B01D 71/02** (2006.01); **C04B 35/46** (2006.01); **C04B 35/468** (2006.01); **C04B 35/47** (2006.01); **C04B 35/486** (2006.01); **C04B 35/50** (2006.01); **C04B 35/622** (2006.01)

CPC (source: EP KR)

B01D 67/00411 (2022.08 - KR); **B01D 69/02** (2013.01 - EP); **B01D 71/02** (2013.01 - EP KR); **B01D 71/024** (2013.01 - EP); **B32B 18/00** (2013.01 - EP); **C04B 35/46** (2013.01 - EP KR); **C04B 35/4682** (2013.01 - EP KR); **C04B 35/47** (2013.01 - EP KR); **C04B 35/486** (2013.01 - EP KR); **C04B 35/50** (2013.01 - EP KR); **C04B 35/62218** (2013.01 - EP KR); **C04B 35/64** (2013.01 - KR); **H05B 3/0038** (2013.01 - KR); **B01D 2325/02** (2013.01 - EP); **B01D 2325/022** (2013.01 - EP); **B01D 2325/04** (2013.01 - EP); **C04B 2235/608** (2013.01 - EP); **C04B 2235/6562** (2013.01 - EP); **C04B 2235/6565** (2013.01 - EP); **C04B 2235/6567** (2013.01 - EP); **C04B 2235/66** (2013.01 - KR); **C04B 2235/665** (2013.01 - EP KR); **C04B 2235/775** (2013.01 - EP); **C04B 2235/786** (2013.01 - EP); **C04B 2235/95** (2013.01 - EP); **C04B 2235/9623** (2013.01 - EP); **C04B 2237/346** (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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022189655 A1 20220915; EP 4304857 A1 20240117; JP 2024513681 A 20240327; KR 20230170664 A 20231219

DOCDB simple family (application)

EP 2022056389 W 20220311; EP 22714404 A 20220311; JP 2023555543 A 20220311; KR 20237034058 A 20220311