

Title (en)

GLASS-CERAMIC PLATE FOR FIREPLACE INSERT AND MANUFACTURING PROCESS

Title (de)

GLASKERAMIKPLATTE FÜR KAMINEINSATZ UND HERSTELLUNGSVERFAHREN

Title (fr)

PLAQUE VITROCERAMIQUE POUR INSERT DE CHEMINEE ET PROCEDE DE FABRICATION

Publication

**EP 3765424 A1 20210120 (FR)**

Application

**EP 19717530 A 20190314**

Priority

- FR 1852203 A 20180314
- FR 2019050560 W 20190314

Abstract (en)

[origin: WO2019175506A1] The present invention relates to a plate, intended to equip apparatuses of fireplace insert, stove, fireplace, boiler, heating apparatus, furnace or equivalent type and/or to act as a fire screen, said plate being formed of at least one glass-ceramic substrate coated, on at least one of its faces, with the following stack of layers: 1) a first layer of metal nitride with a thickness within a range extending from 5 nm to 50 nm, 2) a layer of indium tin oxide less than 100 nm thick, 3) a second layer of metal nitride with a thickness within a range extending from 10 nm to 100 nm. The present invention also relates to a process for obtaining said plate, and also to a device integrating said plate.

IPC 8 full level

**C03C 10/00** (2006.01); **C03C 17/34** (2006.01); **C03C 17/36** (2006.01)

CPC (source: EP US)

**C03C 17/3435** (2013.01 - EP US); **C03C 23/007** (2013.01 - US); **F24B 1/192** (2013.01 - EP US); **F24B 1/193** (2013.01 - EP US); **F24C 15/004** (2013.01 - EP); **F24C 15/005** (2013.01 - EP); **F24C 15/04** (2013.01 - EP US); **F24C 15/16** (2013.01 - EP); **B82Y 30/00** (2013.01 - US); **C03C 2217/281** (2013.01 - US); **C03C 2217/948** (2013.01 - EP US); **C03C 2218/156** (2013.01 - US)

Citation (search report)

See references of WO 2019175506A1

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 2019175506 A1 20190919**; CN 111788160 A 20201016; EP 3765424 A1 20210120; FR 3078964 A1 20190920; FR 3078964 B1 20200327; JP 2021517080 A 20210715; JP 7330995 B2 20230822; US 11866363 B2 20240109; US 2020399172 A1 20201224

DOCDB simple family (application)

**FR 2019050560 W 20190314**; CN 201980017294 A 20190314; EP 19717530 A 20190314; FR 1852203 A 20180314; JP 2020546365 A 20190314; US 201916976096 A 20190314