

Title (en)

BURNER WITH HIGH FLAME STABILITY, PARTICULARLY FOR THE THERMAL TREATMENT OF CERAMIC ARTICLES

Title (de)

BRENNER MIT HOHER FLAMMSTABILITÄT, INSBESONDERE ZUR WÄRMEBEHANDLUNG VON KERAMIKARTIKELN

Title (fr)

BRÛLEUR À HAUTE STABILITÉ DE LA FLAMME, EN PARTICULIER POUR LE TRAITEMENT THERMIQUE D'ARTICLES CÉRAMIQUES

Publication

EP 2553338 B1 20160316 (EN)

Application

EP 10761020 A 20101006

Priority

- IT MO20100087 A 20100329
- EP 2010064931 W 20101006

Abstract (en)

[origin: WO2011120597A1] A burner (1) with high flame stability, particularly for the thermal treatment of ceramic articles, comprising a supporting body (2) provided with at least one first port (4) for the inflow of an oxidizing fluid and with at least one second port (5) for the inflow of a combustible fluid, and a combustion head (7) which is associated with the supporting body (2) and is provided, in its central region, with nozzle means (8) which are associated with the second port, for the outflow of the combustible fluid in a combustion region (9) and, in its peripheral region, with an annular diffuser (14) provided with a plurality of through openings (15) for orienting the flow of the oxidizing fluid toward the combustion region. At least one of the openings (15) comprises a slot (15a), which is provided inside the diffuser (14) and has an extension along a first transverse dimension that is substantially larger than the extension along a second direction that is transverse to the first direction.

IPC 8 full level

F23C 7/00 (2006.01); **F23D 14/24** (2006.01); **F23D 14/70** (2006.01)

CPC (source: EP)

F23C 7/004 (2013.01); **F23D 14/24** (2013.01); **F23D 14/70** (2013.01); **F23D 2900/11402** (2013.01); **F23D 2900/11403** (2013.01)

Cited by

ITUB20159531A1; IT202100027203A1

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)

WO 2011120597 A1 20111006; BR 112012024866 A2 20160614; BR 112012024866 B1 20201027; EP 2553338 A1 20130206; EP 2553338 B1 20160316; ES 2576870 T3 20160711; IT 1399383 B1 20130416; IT MO20100087 A1 20110930

DOCDB simple family (application)

EP 2010064931 W 20101006; BR 112012024866 A 20101006; EP 10761020 A 20101006; ES 10761020 T 20101006; IT MO20100087 A 20100329