

Title (en)
BURNER WITH DIFFUSING MEANS

Title (de)
BRENNER MIT DIFFUSIONSEINRICHTUNG

Title (fr)
BRÛLEUR AVEC MOYEN DE DIFFUSION

Publication
EP 2929243 B1 20180613 (EN)

Application
EP 13820952 A 20131127

Priority
• IT MO20120292 A 20121127
• IB 2013060449 W 20131127

Abstract (en)
[origin: WO2014083516A1] The burner comprises a supporting body having a first and a second tubular elements (2a, 2b), where the volume positioned between the first and the second tubular elements (2a, 2b) defines at least a first duct (3) for the flow of a combustible fluid and where the second tubular element (2b) defines at least a second duct (4) for the flow of a combustion fluid; the second tubular element (2b) comprising a union element (12) defining an extremity section of said second duct (4); a combustion head (15) associated with the supporting body (2) and comprising diffusing means (9), communicating with the first duct (3) and having a plurality of openings (16) for the flow of the combustible fluid towards a combustion area (17), where the diffusing means (9) comprise at least two diffusing elements (9a, 9b, 9c) having relative openings for the flow of the combustible fluid and mobile reciprocally the one to the other to change the relative position of the openings, and dispensing means (11) of the combustion fluid, communicating with the second duct (4) and having a plurality of gaps (18) for the flow of the combustion fluid itself towards the combustion area (17); the diffusing elements (9a, 9b, 9c) are fitted around the union element (12), each of them has a plurality of openings defined by respective through cuts extending along a portion of the relative diffusing element (9a, 9b, 9c), where the openings have a substantially curvilinear extension and have a growing section proceeding outwards, and the union element (12) has at least a section (12a) which diverges proceeding towards the diffusing elements (9a, 9b, 9c), where the diverging section (12a) protrudes inside the first duct (3) and is suitable for directing the combustible fluid flow towards the outer portions of the openings.

IPC 8 full level
F23C 7/00 (2006.01); **F23D 14/24** (2006.01); **F23D 14/48** (2006.01)

CPC (source: EP)
F23C 7/006 (2013.01); **F23D 14/24** (2013.01); **F23D 14/48** (2013.01); **F23D 2203/1017** (2013.01)

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 2014083516 A1 20140605; BR 112015012071 A2 20170711; CN 104854404 A 20150819; CN 104854404 B 20170510; EP 2929243 A1 20151014; EP 2929243 B1 20180613; ES 2686330 T3 20181017; IT MO20120292 A1 20140528; PL 2929243 T3 20181231; PT 2929243 T 20181017

DOCDB simple family (application)
IB 2013060449 W 20131127; BR 112015012071 A 20131127; CN 201380061446 A 20131127; EP 13820952 A 20131127; ES 13820952 T 20131127; IT MO20120292 A 20121127; PL 13820952 T 20131127; PT 13820952 T 20131127