

Title (en)

Combustion head for low-nox liquid fuel burner

Title (de)

Brennerkopf für einen Flüssigbrennstoffbrenner mit niedrigen NOx-Emissionen

Title (fr)

Tête de combustion pour brûleur à combustible liquide à faible émission de NOx

Publication

**EP 2461096 A1 20120606 (EN)**

Application

**EP 11192257 A 20111206**

Priority

IT BO20100721 A 20101206

Abstract (en)

A combustion head (1) for a burner provided with a nozzle (2) for atomizing a liquid fuel; the head (1) has a first body (4) adapted to receive a primary comburent flow (F1) and having a frontal wall (6) arranged to produce a swirl in the primary comburent flow (F1); and a second body (13) adapted to receive a secondary comburent flow (F2), to convey it towards a combustion chamber (CC) and to produce a swirl therein; a duct (25) and an intermediate body (20) which define a channel (C1), adapted to feed a tertiary comburent flow (F3) into the combustion chamber (CC) and having a tapered end profile which converges towards the first body (4) and the second body (13); and a frontal surface of the intermediate body (20) substantially lies on the plane defined by the frontal wall (6) of the first body (4).

IPC 8 full level

**F23C 7/00** (2006.01); **F23D 11/24** (2006.01); **F23D 11/40** (2006.01)

CPC (source: EP)

**F23C 7/004** (2013.01); **F23D 11/24** (2013.01); **F23D 11/408** (2013.01); **F23D 2900/00016** (2013.01)

Citation (applicant)

- EP 1705424 A1 20060927 - RIELLO SPA [IT]
- US 4798330 A 19890117 - MANCINI ALFRED A [US], et al

Citation (search report)

- [YD] EP 1705424 A1 20060927 - RIELLO SPA [IT]
- [YD] US 4798330 A 19890117 - MANCINI ALFRED A [US], et al
- [A] US 4105163 A 19780808 - DAVIS JR LEWIS BERKLEY, et al
- [A] US 3979069 A 19760907 - GAROFALO LUIGI

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)

**EP 2461096 A1 20120606**; IT 1402828 B1 20130927; IT BO20100721 A1 20120607

DOCDB simple family (application)

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