

Title (en)
GAS BURNER WITH STAGED COMBUSTION

Title (de)
GASBRENNER MIT GESTUFTER VERBRENNUNG

Title (fr)
BRÛLEUR À GAZ A COMBUSTION ÉTAGÉE

Publication
EP 3078910 A1 20161012 (EN)

Application
EP 15162738 A 20150408

Priority
EP 15162738 A 20150408

Abstract (en)
A gas burner (1) with a cylindrical casing (3) being open from below for the flow of the combustion air, and having a gas burner output, a central primary head (15), arranged in the axis of the cylindrical casing (3), and having axial main performance nozzles (19), a swirler (13), and radial stabilization nozzles (20) around the circumference of the central primary head (15) provided in front of the swirler (13) in the direction of the gas burner output, and a fuel tube (7, 8, 9, 10, 11, 16, 22) with a gas distributor (16) and a tube portion (11), a reduction piece (12) being arranged on the tube portion (11) leading from the gas distributor (16) to the central primary head (15), and provided with a passing-through opening (17) being smaller than an opening in the tube portion (11), wherein the central primary head (15) is arranged on the reduction piece (12), in front of the central primary head (15), the fuel tube (7, 8, 9, 10, 11, 16, 22) is divided into a plurality of tubes (5) arranged in a circle, and the fuel nozzles (18) of the plurality of tubes (5) are arranged on the gas burner output of the casing (3) and orientated into the gas burner output.

IPC 8 full level
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CPC (source: EP)
F23D 14/02 (2013.01); **F23D 14/24** (2013.01); **F23C 2201/20** (2013.01); **F23C 2201/30** (2013.01); **F23D 2900/14021** (2013.01)

Citation (applicant)
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• US 4505666 A 19850319 - MARTIN RICHARD R [US], et al

Citation (search report)
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• [Y] WO 2007017056 A1 20070215 - LBE FEUERUNGSTECHNIK GMBH [DE], et al

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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

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