

Title (en)

COMBUSTION CHAMBER MODULE WITH NOZZLE WITH AXIALLY PROTRUDING AIR GUIDING ELEMENT FOR A NON-STAGED COMBUSTOR DEVICE OF AN ENGINE

Title (de)

BRENNKAMMERBAUGRUPPE MIT DÜSE MIT AXIAL ÜBERSTEHENDEM LUFTLEITELEMENT FÜR EINE NICHT GESTUFTTE BRENNKAMMER EINES TRIEBWERKS

Title (fr)

ENSEMBLE CHAMBRE DE COMBUSTION POURVU DE BUSE À ÉLÉMENT DE GUIDAGE D'AIR SUPÉRIEUR AXIAL POUR UNE CHAMBRE DE COMBUSTION NON ÉTAGÉE D'UN MOTEUR

Publication

**EP 3462091 B1 20220126 (DE)**

Application

**EP 18196253 A 20180924**

Priority

DE 102017217329 A 20170928

Abstract (en)

[origin: US2019093897A1] A combustion chamber assembly group includes a nozzle providing a fuel-air mixture at a nozzle exit opening. An end of a fuel guiding channel is bordered at the nozzle exit opening by a flow-off edge located radially outside, and an air guiding element of an air guiding channel of the nozzle located radially outside projects with respect to this flow-off edge in the axial direction with respect to a nozzle longitudinal axis such that: a reference angle present between the nozzle longitudinal axis and a straight boundary line extending through a point at the flow-off edge and tangentially to the axially projecting air guiding element, and/or a reference angle present between the nozzle longitudinal axis and a straight boundary line extending through a point at the flow-off edge and a point of the air guiding element that projects maximally beyond the flow-off edge in the axial direction is  $\leq 50^\circ$ .

IPC 8 full level

**F23R 3/28** (2006.01); **F23D 11/10** (2006.01)

CPC (source: EP US)

**F23D 11/107** (2013.01 - EP US); **F23R 3/14** (2013.01 - US); **F23R 3/28** (2013.01 - EP US); **F23R 3/286** (2013.01 - US); **F23D 2900/11101** (2013.01 - EP US)

Citation (examination)

EP 2530382 A2 20121205 - KAWASAKI HEAVY IND LTD [JP], et al

Cited by

DE102020106842A1

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)

**EP 3462091 A1 20190403**; **EP 3462091 B1 20220126**; DE 102017217329 A1 20190328; US 10808935 B2 20201020; US 2019093897 A1 20190328

DOCDB simple family (application)

**EP 18196253 A 20180924**; DE 102017217329 A 20170928; US 201816141287 A 20180925