

Title (en)

LOBED INJECTOR FOR A GAS TURBINE COMBUSTOR

Title (de)

GELAPPTER INJEKTOR FÜR EINE GASTURBINENBRENNKAMMER

Title (fr)

INJECTEUR À LOBES POUR UNE CHAMBRE DE COMBUSTION DE TURBINE À GAZ

Publication

EP 3354984 A1 20180801 (EN)

Application

EP 17154085 A 20170131

Priority

EP 17154085 A 20170131

Abstract (en)

A lobed injector finger for a burner or a mixer of a gas turbine comprises a leading edge (23), a lobed trailing edge (24), a first and a second corrugated surfaces (40a, 40b) defining an airfoil cross section and converging in the trailing edge (24), a plurality of nozzles (27) located at the trailing edge (24) for injection of oil or fuel or carrier air in the burner or mixer, and a plurality of vortex generators (42) projecting from a suction side of lobes (28) defined by the first and second corrugated surfaces (40a, 40b) and positioned from the nozzles (27) to reduce flow separation and/or influence the location of a separation bubble.

IPC 8 full level

F23R 3/34 (2006.01)

CPC (source: CN EP)

F23R 3/286 (2013.01 - CN); **F23R 3/346** (2013.01 - EP); **F23R 2900/03341** (2013.01 - EP)

Citation (applicant)

- US 4932861 A 19900612 - KELLER JAKOB [CH], et al
- US 5431018 A 19950711 - KELLER JAKOB [US]
- US 5626017 A 19970506 - SATTELMAYER THOMAS [CH]
- US 2002187448 A1 20021212 - EROGLU ADNAN [CH], et al

Citation (search report)

- [XAI] US 2016146470 A1 20160526 - DUSING MICHAEL [DE], et al
- [A] US 2014123665 A1 20140508 - WOOD JOHN PHILIP [CH], et al
- [A] US 2016146468 A1 20160526 - GAO XIANFENG [CH], et al

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)

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DOCDB simple family (application)

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