

Title (en)

Fuel mixing arrangement and combustor with such a fuel mixing arrangement

Title (de)

Kraftstoffmischanordnung und Brennkammer mit einer solchen Mischanordnung

Title (fr)

Agencement de mélange de carburant et chambre de combustion avec un tel agencement

Publication

**EP 2933559 A1 20151021 (EN)**

Application

**EP 14164859 A 20140416**

Priority

EP 14164859 A 20140416

Abstract (en)

The present application relates to a fuel mixing arrangement (100) for mixing fuel and an oxidizing medium for combustion in a combustor of a gas turbine, with a flute fuel injection system comprising at least two streamline bodies (22) with at least one fuel nozzle wherein the streamline bodies (22) comprise either vortex generators or lobes and at least one body (22) is arranged parallel to the flow direction of the oxidizing medium. A better mixing is achieved by arranging the at least second other streamline body (22) inclined to the first one. A perpendicular arrangement of the streamline bodies (22) is preferred, so that a square arrangement occurs.

IPC 8 full level

**F23R 3/20** (2006.01); **F23D 99/00** (2010.01); **F23R 3/34** (2006.01)

CPC (source: EP)

**F23D 91/02** (2015.07); **F23R 3/20** (2013.01); **F23R 3/346** (2013.01); **F23D 2900/21003** (2013.01); **F23R 2900/03341** (2013.01)

Citation (applicant)

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