

Title (en)

Swirler, method for reducing flashback in a burner with at least one swirler and burner

Title (de)

Drallerzeuger, Verfahren zum Vermeiden von Flammenrückschlag in einem Brenner mit wenigstens einem Drallerzeuger und Brenner

Title (fr)

Générateur de torsion, procédé destiné à empêcher des retours de flammes dans un brûleur, doté d'au moins un générateur de torsion et d'un brûleur

Publication

EP 2233836 B1 20150729 (DE)

Application

EP 09155904 A 20090323

Priority

EP 09155904 A 20090323

Abstract (en)

[origin: EP2233836A1] The swirl generator (31) has outer wall (39) enclosing central fuel distributor (37) and bounding axial flow channel (41) for combustion air. Swirl vanes extend in radial direction to outer wall to give tangential flow component to flowing combustion air. A separating wall (42) encloses central fuel distributor, and is positioned radially within outer wall to divide flow channel into radially inner channel segment (43) and radially outer channel segment (45). The radially inner channel segment allows combustion air to pass without giving tangential flow component to combustion air. An independent claim is also included for the flashback preventing method for use in burner.

IPC 8 full level

F23R 3/14 (2006.01); **F23R 3/28** (2006.01)

CPC (source: EP US)

F23R 3/14 (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23C 7/004** (2013.01 - US)

Cited by

EP2685164A1; KR20160022846A; US9518740B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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