

Title (en)

Gas turbine combustion chamber with helicoidal air circulation

Title (de)

Gasturbinenbrennkammer mit schraubenförmigem Luftumlauf

Title (fr)

Chambre de combustion de turbomachine à circulation hélicoïdale de l'air

Publication

EP 2034245 B1 20100421 (FR)

Application

EP 08163522 A 20080902

Priority

FR 0757356 A 20070905

Abstract (en)

[origin: EP2034245A1] The chamber (202) has an inner wall (212) and an outer wall (214) having inner steps (220) and outer steps (224) regularly distributed around a longitudinal axis. Each step extends longitudinally between two longitudinal ends of the walls and radially towards exterior or interior of the walls, respectively. A circumferential spacing between the two adjacent steps defines an inner cavity (222) and an outer cavity (226), respectively. The cavities are supplied with outer air to the chamber along a circumferential direction and with fuel along a radial direction.

IPC 8 full level

F23R 3/50 (2006.01); **F23R 3/58** (2006.01)

CPC (source: EP US)

F23R 3/50 (2013.01 - EP US); **F23R 3/58** (2013.01 - EP US)

Cited by

EP2808611A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 2034245 A1 20090311; **EP 2034245 B1 20100421**; CA 2639356 A1 20090305; CA 2639356 C 20150623; CN 101382297 A 20090311; CN 101382297 B 20111123; DE 602008001042 D1 20100602; FR 2920523 A1 20090306; FR 2920523 B1 20091218; JP 2009063287 A 20090326; JP 5214375 B2 20130619; RU 2008135874 A 20100310; RU 2484377 C2 20130610; US 2009056338 A1 20090305; US 7614234 B2 20091110

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