

Title (en)

Turbomachine combustion chamber with helical air circulation

Title (de)

Brennkammer einer Strömungsmaschine mit helikoidaler Luftströmung

Title (fr)

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

Publication

EP 2003399 B1 20140430 (FR)

Application

EP 08158059 A 20080611

Priority

FR 0755761 A 20070614

Abstract (en)

[origin: EP2003399A2] The chamber (202) has an air inlet opening emerging from a combustion hearth, and an outer wall (214) with pilot cavities (222), where each cavity is extended between wall's longitudinal upstream and downstream ends and radially towards the wall's exterior. The cavities are supplied by air exterior to the chamber along circumferential direction. A fuel injection system (220) has pilot injectors (220a) circumferentially alternating with open gas injectors (220b), where each injector (220a) is radially emerged in one cavity. Each injector (220b) is radially emerged between adjacent cavities.

IPC 8 full level

F23R 3/50 (2006.01)

CPC (source: EP US)

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Cited by

EP3575689A1; US11725822B2

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EP 2003399 A2 20081217; EP 2003399 A3 20130731; EP 2003399 B1 20140430; CA 2634615 A1 20081214; CA 2634615 C 20140805; CN 101324344 A 20081217; CN 101324344 B 20110817; FR 2917487 A1 20081219; FR 2917487 B1 20091002; IL 192052 A0 20090211; IL 192052 A 20110731; JP 2008309466 A 20081225; JP 5084626 B2 20121128; RU 2008124152 A 20091220; RU 2478880 C2 20130410; US 2008307792 A1 20081218; US 7673456 B2 20100309

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