

Title (en)

System and Method for Supplying a Working Fluid to a Combustor

Title (de)

System und Verfahren für die Zufuhr eines Arbeitsfluids zu einem Brenner

Title (fr)

Système et procédé pour fournir un fluide de travail à une chambre de combustion

Publication

**EP 2615373 A1 20130717 (EN)**

Application

**EP 13150587 A 20130109**

Priority

US 201213349886 A 20120113

Abstract (en)

A system 10 for supplying a working fluid to a combustor 16 includes a fuel nozzle 36, a combustion chamber 40, and fuel injectors 50 circumferentially arranged around the combustion chamber. A combustor casing 34 surrounds the combustion chamber 40. A distribution manifold 52 encloses the fuel injectors 50, and a plenum 54 passes through the combustor casing 34. A method for supplying a working fluid to a combustor 16 includes flowing a working fluid from a compressor 14 through a combustion chamber 40, diverting a portion of the working fluid into a plenum 54, and flowing the diverted portion of the working fluid outside of the compressor 14 and the combustor 16. The method further includes flowing the diverted portion of the working fluid through a combustor casing 34 and through a distribution manifold that encloses fuel injectors 50 circumferentially arranged around the combustion chamber 40.

IPC 8 full level

**F23R 3/04** (2006.01); **F23R 3/34** (2006.01)

CPC (source: EP US)

**F23R 3/04** (2013.01 - EP US); **F23R 3/346** (2013.01 - EP US)

Citation (search report)

- [X] US 2011179803 A1 20110728 - BERRY JONATHAN DWIGHT [US], et al
- [X] US 6192688 B1 20010227 - BEEBE KENNETH W [US]
- [A] EP 1074792 A1 20010207 - ROLLS ROYCE PLC [GB]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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**EP 2615373 A1 20130717**; CN 103206725 A 20130717; JP 2013145107 A 20130725; RU 2013100409 A 20140720;  
US 2013180253 A1 20130718

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