

Title (en)

Combustor and method for supplying fuel to a combustor

Title (de)

Brennkammer und Verfahren zur Versorgung einer Brennkammer mit Brennstoff

Title (fr)

Chambre de combustion et procédé pour fournir du carburant à une chambre de combustion

Publication

EP 2592349 A2 20130515 (EN)

Application

EP 12192137 A 20121109

Priority

US 201113294284 A 20111111

Abstract (en)

A combustor (10) includes an end cap (18) having an upstream surface (26) axially separated from a downstream surface (28). A casing (12) circumferentially surrounds at least a portion of the end cap (18) to define an annular passage (20). A first tube bundle (40) extends from the upstream surface (28) through the downstream surface to provide fluid communication through the end cap (18). A first fuel conduit (44) is in fluid communication with the first tube bundle (40) to supply fuel through the annular passage (20) to the first tube bundle (40), and a liquid fuel supply (48) is in fluid communication with the first tube bundle (40) through the first fuel conduit (44). A method for supplying fuel to a combustor (10) includes flowing a working fluid (14) through a first tube bundle (40) and flowing a liquid fuel through an annular passage (20) surrounding the end cap (18) and into the first tube bundle (40).

IPC 8 full level

F23R 3/28 (2006.01)

CPC (source: EP US)

F23R 3/286 (2013.01 - EP US); **F23R 2900/00001** (2013.01 - EP US)

Cited by

CN115727354A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2592349 A2 20130515; CN 103104934 A 20130515; US 2013122437 A1 20130516

DOCDB simple family (application)

EP 12192137 A 20121109; CN 201210445446 A 20121109; US 201113294284 A 20111111