

Title (en)

SECOND-STAGE COMBUSTOR FOR A SEQUENTIAL COMBUSTOR OF A GAS TURBINE

Title (de)

SEKUNDÄRE BRENNKAMMERPHASE FÜR EINE SEQUENTIELLE GASTURBINENBRENNKAMMER

Title (fr)

CHAMBRE DE COMBUSTION DE SECOND ÉTAGE POUR CHAMBRE DE COMBUSTION SÉQUENTIELLE D'UNE TURBINE À GAZ

Publication

EP 3486570 A1 20190522 (EN)

Application

EP 17201920 A 20171115

Priority

EP 17201920 A 20171115

Abstract (en)

A combustor of a gas turbine, including: a first-stage combustor and a second-stage combustor (13), arranged downstream of the first-stage combustor and including a second-stage combustion chamber (20) extending along an axial direction; an axial lance injector (16); and a flame stabilizer device (23). The axial lance injector (16) includes an elongated streamlined body (30) extending in the axial direction from the first-stage combustor into the second-stage combustion chamber (20) through a transition region (28) of the second-stage combustor (13). The elongated streamlined body (30) and the transition region (28) prevent gas recirculation in the transition region (28). First cross-flow injection nozzles (32) and second cross-flow injection nozzles (33) are provided on the elongated streamlined body (30) at respective axial locations and the flame stabilizer device (23) is arranged downstream of the first cross-flow injection nozzles (32) and of the second cross-flow injection nozzles (33).

IPC 8 full level

F23R 3/36 (2006.01); **F23C 99/00** (2006.01); **F23R 3/34** (2006.01)

CPC (source: CN EP)

F23C 99/001 (2013.01 - EP); **F23R 3/20** (2013.01 - CN); **F23R 3/34** (2013.01 - EP); **F23R 3/36** (2013.01 - EP); **F23R 3/42** (2013.01 - CN); **F23C 2900/07021** (2013.01 - EP); **F23R 2900/03341** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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