

Title (en)
A COMBUSTION CHAMBER

Title (de)
BRENNKAMMER

Title (fr)
CHAMBRE DE COMBUSTION

Publication
EP 3255344 B1 20190206 (EN)

Application
EP 17171658 A 20170518

Priority
GB 201610122 A 20160610

Abstract (en)
[origin: EP3255344A1] A combustion chamber arrangement (15) comprises an annular outer wall (50) and an annular inner wall (52) comprising at least one row of tiles (52A). Each tile in the row of tiles (52A) has a rail (53) extending towards and sealing with the outer wall (50) and a lip (63) extending in a downstream direction from the row of tiles (52A). The outer wall (50) has a row of apertures (57) to direct coolant onto the lips (63) of the row of tiles (52A). Each tile (52A) has a fastener (72) positioned upstream of the rail (53) and the fastener (72) extends through a corresponding mounting aperture (70) to secure the tile (52A) to the outer wall (50). The rail (53) of each tile (52A) defines a plurality of slots (86) with the outer wall (50) and the slots (86) are arranged in a region (84) downstream of the corresponding fastener (72). None of the apertures (57) in the row of apertures (57) are arranged in a region (90) downstream of the fastener (72) of the tiles (52A). The arrangement reduces crack generation and propagation in the outer wall (50).

IPC 8 full level
F23R 3/00 (2006.01); **F23R 3/06** (2006.01)

CPC (source: EP US)
F23R 3/002 (2013.01 - EP US); **F23R 3/007** (2013.01 - US); **F23R 3/02** (2013.01 - US); **F23R 3/06** (2013.01 - EP US); **F23R 3/22** (2013.01 - US); **F23R 3/26** (2013.01 - US); **F23R 3/50** (2013.01 - US); **F23R 2900/00005** (2013.01 - EP US); **F23R 2900/03042** (2013.01 - EP US); **F23R 2900/03044** (2013.01 - EP US)

Cited by
DE102018213925A1; CN112228903A; EP3540312A1; US11187411B2

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