

Title (en)  
COMBUSTOR WITH RESONATOR

Title (de)  
BRENNKAMMER MIT RESONATOR

Title (fr)  
CHAMBRE DE COMBUSTION AVEC RÉSONATEUR

Publication  
**EP 4198395 A1 20230621 (EN)**

Application  
**EP 22163562 A 20220322**

Priority  
• US 202163291529 P 20211220  
• US 202217674351 A 20220217

Abstract (en)  
A turbine engine (10) comprises a compressor section (12), a combustion section (14) and a turbine section (16) in serial flow arrangement, with the combustion section (14) having a combustor (30) defining a longitudinal axis (LA). The combustor (30) comprises a combustor liner (94) at least partially defining a combustion chamber (98), a fuel passage (122) fluidly coupled to the combustion chamber (98), a compressed air passage (110) fluidly coupling the compressor section (12) to the combustion chamber (98), a dome plate (142) separating the combustion chamber (98) from the compressed air passage (110) and having a set of apertures (146, 246, 346) fluidly coupled to the compressed air passage (110), and a set of resonator cavities (150, 250, 250a, 250b, 350, 350a-f) proximate the dome plate (142) and fluidly coupled to the set of apertures (146, 246, 346).

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

CPC (source: CN EP)  
**F23R 3/002** (2013.01 - EP); **F23R 3/286** (2013.01 - CN); **F23R 3/52** (2013.01 - CN); **F23R 2900/00014** (2013.01 - EP);  
**F23R 2900/03044** (2013.01 - EP)

Citation (search report)  
• [X] US 2017082287 A1 20170323 - BECK CHRISTIAN [DE], et al  
• [X] US 2019017441 A1 20190117 - VENKATESAN KRISHNAKUMAR [US], et al  
• [X] US 2019093891 A1 20190328 - GRAHAM OWEN [US], et al  
• [X] US 2020063963 A1 20200227 - BILSE ANDREW SCOTT [US], et al  
• [X] US 2018274780 A1 20180927 - KIM KWANWOO [US], et al

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

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DOCDB simple family (application)  
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