

Title (en)  
COMBUSTOR WITH RESONATOR

Title (de)  
BRENNKAMMER MIT RESONATOR

Title (fr)  
CHAMBRE DE COMBUSTION AVEC RÉSONATEUR

Publication  
**EP 4198397 A1 20230621 (EN)**

Application  
**EP 22164988 A 20220329**

Priority  
• US 202163291539 P 20211220  
• US 202217672946 A 20220216

Abstract (en)  
A turbine engine (10) can include a compressor section (12), a combustion section (14, 29), and a turbine section (16) in serial flow arrangement. The combustion section (14, 29) can include a combustor (30) with a combustion chamber (98), a compressed air passage (110) fluidly coupled to the combustion chamber (98), and a swirler (124, 224). At least one acoustic resonator (150, 152, 250, 252) can be provided in the combustor (30).

IPC 8 full level  
**F23R 3/14** (2006.01)

CPC (source: CN EP US)  
**F23R 3/005** (2013.01 - EP); **F23R 3/02** (2013.01 - CN); **F23R 3/12** (2013.01 - CN); **F23R 3/14** (2013.01 - EP US); **F23R 3/286** (2013.01 - US); **F23R 2900/00002** (2013.01 - EP); **F23R 2900/00014** (2013.01 - CN EP US)

Citation (applicant)  
• US 203962632915 P  
• US 202217672946 A 20220216

Citation (search report)  
• [XY] US 2018163967 A1 20180614 - ARELLANO LEONEL [US], et al  
• [X] US 2005106519 A1 20050519 - FLOHR PATRICK [US], et al  
• [X] US 2013269353 A1 20131017 - BULAT GHENADIE [GB]  
• [YA] US 2005229581 A1 20051020 - BELLUCCI VALTER [CH], 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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4198397 A1 20230621**; CN 116293791 A 20230623; US 2023194090 A1 20230622

DOCDB simple family (application)  
**EP 22164988 A 20220329**; CN 202210472538 A 20220429; US 202217672946 A 20220216