

Title (en)  
Gas turbine with a helmholtz damper

Title (de)  
Gasturbine mit einem Helmholtz-Resonator

Title (fr)  
Turbine à gaz avec un amortisseur Helmholtz

Publication  
**EP 3029376 B1 20181003 (EN)**

Application  
**EP 14195660 A 20141201**

Priority  
EP 14195660 A 20141201

Abstract (en)  
[origin: EP3029376A1] A Helmholtz damper (24), especially for damping pulsations in a combustor of a gas turbine, comprises a damper volume (25, which can be connected to a damped space (19) by means of a neck tube (26), and further comprises a piston (27), which is moveable within said damper volume (25) and divides said damper volume (25) into a variable first part (V1) on one side of said piston (27), which variable first part (V1) is connected to said neck tube (26), and a correspondingly variable second part (V2) on the other side of said piston (27). The control mechanism is substantially simplified in a more compact design by said piston (27) being driven by a pressure drop (#p) between said first and second part (V1, V2) of said damper volume (25).

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

CPC (source: EP US)  
**F23R 3/002** (2013.01 - EP US); **F23R 3/16** (2013.01 - US); **F23R 2900/00013** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US)

Cited by  
GB2557264A; GB2557264B; RU2687545C1; US11174792B2; US11156164B2

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**EP 14195660 A 20141201**; CN 201510863130 A 20151201; US 201514934277 A 20151106