

Title (en)  
COMPLIANT WALLED COMBUSTION DEVICES

Title (de)  
KONFORME EINGEMAUERTE VERBRENNUNGSVORRICHTUNGEN

Title (fr)  
DISPOSITIFS DE COMBUSTION A PAROI FLEXIBLE

Publication  
**EP 1781903 A4 20160330 (EN)**

Application  
**EP 05858350 A 20050520**

Priority

- US 2005018109 W 20050520
- US 57489104 P 20040526
- US 60874104 P 20040909
- US 13407705 A 20050519
- US 13462905 A 20050519

Abstract (en)  
[origin: WO2007008188A2] Combustion devices described herein comprise a compliant combustion chamber wall or segment. The compliant segment deforms during combustion in the combustion chamber. Some devices may include a compliant wall configured to stretch responsive to pressure generated by combustion of a fuel in the combustion chamber. A coupling portion translates deformation of the compliant segment or wall into mechanical output. One or more ports are configured to inlet an oxygen source and fuel into the combustion chamber and to outlet exhaust gases from the combustion chamber.

IPC 8 full level  
**F02F 3/00** (2006.01); **F01K 27/00** (2006.01); **F02B 75/36** (2006.01); **F23M 5/00** (2006.01)

CPC (source: EP)  
**F01K 27/00** (2013.01); **F02B 75/36** (2013.01); **F23M 5/00** (2013.01); **F23M 2900/05004** (2013.01)

Citation (search report)

- [X] FR 2778695 A1 19991119 - CHASSAING ANTOINE [FR]
- [X] US 5222466 A 19930629 - GRATZIANI ITZCHAK [IL]
- [X] US 6390049 B1 20020521 - SOBHANI SEYD MEHDI [US]
- [X] GB 1211298 A 19701104 - EGI HIDEAKI [JP]
- [X] FR 1384728 A 19650108
- See references of WO 2007008188A2

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DOCDB simple family (application)  
**US 2005018109 W 20050520**; EP 05858350 A 20050520; JP 2007524793 A 20050520; JP 2011128171 A 20110608