

Title (en)

Cylinder-piston assembly operated with a closed-circuit working gas

Title (de)

Zylinder-Kolben-Baugruppe betrieben mit einem abgeschlossenen Arbeitsgas

Title (fr)

Module piston-cylindre actionné par un gaz de travail enfermé

Publication

EP 2740922 B1 20190213 (DE)

Application

EP 12008152 A 20121206

Priority

EP 12008152 A 20121206

Abstract (en)

[origin: EP2740922A1] The component has a piston i.e. ceramic piston, where an outer surface of a piston portion (8) made of thermal ceramic material partly forms a seal and a guide surface at a sealing body (10). A heated cylinder chamber (4) faces an axial piston section (7) made of thermally-insulating ceramic material, and the piston portion is arranged downstream of the sealing body. A thermal depth stage is determined by temperature of a cold cylinder space (5), where component is made of thermal ceramic material such as silicon carbide or aluminum nitride. An independent claim is also included for a stirling engine.

IPC 8 full level

F02G 1/053 (2006.01)

CPC (source: EP)

F02G 1/053 (2013.01); **F02G 2270/40** (2013.01); **F05C 2251/048** (2013.01)

Cited by

WO2022069981A1

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

DOCDB simple family (publication)

EP 2740922 A1 20140611; EP 2740922 B1 20190213

DOCDB simple family (application)

EP 12008152 A 20121206