

Title (en)

HEAT EXCHANGER STRUCTURE AND ISOTHERMAL COMPRESSION OR EXPANSION CHAMBER

Title (de)

WÄRMETAUSCHERSTRUKTUR UND KAMMER ZUR ISOTHERMEN KOMPRESSION ODER EXPANSION

Title (fr)

STRUCTURE D'ECHANGEUR THERMIQUE ET CHAMBRE DE COMPRESSION OU DE DETENTE ISOTHERME

Publication

EP 2350448 A1 20110803 (FR)

Application

EP 09755950 A 20091001

Priority

- FR 2009051874 W 20091001
- FR 0856720 A 20081003

Abstract (en)

[origin: WO2010037980A1] The invention relates to a thermodynamic machine that includes at least one chamber (21) in which an isothermal expansion and/or compression is to be carried out, said chamber being longitudinally defined by first and second walls (23, 25) that are mobile relative to each other. The chamber (21) is divided by partitions (31, 33) extending longitudinally from each of the first and second walls, the partitions being interleaved within each other, and the distance between the partitions extending from a same wall being such that the ratio between the distance squared and the cycle duration of the thermodynamic machine is lower than the average thermal diffusivity of the gas contained in the chamber.

IPC 8 full level

F02G 1/053 (2006.01); **F02G 1/055** (2006.01)

CPC (source: EP US)

F02G 1/053 (2013.01 - EP US); **F02G 1/055** (2013.01 - EP US); **F02F 3/28** (2013.01 - EP US); **F02G 2255/20** (2013.01 - EP US); **F02G 2256/02** (2013.01 - EP US); **F28D 11/06** (2013.01 - EP US); **F28F 21/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2010037980A1

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010037980 A1 20100408; **WO 2010037980 A4 20100603**; CN 102245887 A 20111116; EP 2350448 A1 20110803; FR 2936841 A1 20100409; FR 2936841 B1 20120601; US 2011239640 A1 20111006

DOCDB simple family (application)

FR 2009051874 W 20091001; CN 200980139642 A 20091001; EP 09755950 A 20091001; FR 0856720 A 20081003; US 200913122444 A 20091001