

Title (en)

ASSEMBLY OF GAS EXPANSION ELEMENTS AND A METHOD FOR OPERATING SAID ASSEMBLY

Title (de)

ANORDNUNG VON GAS AUSDEHNUNGSELEMENTEN UND VERFAHREN ZUM BETREIBEN DER ANORDNUNG

Title (fr)

SYSTEME D'ELEMENTS D'EXPANSION GAZEUSE ET PROCEDE D'UTILISATION

Publication

EP 1404948 A1 20040407 (DE)

Application

EP 02754307 A 20020703

Priority

- DE 0202416 W 20020703
- DE 10133153 A 20010707

Abstract (en)

[origin: US2004237525A1] An assembly of gas expansion elements for a device for converting thermal energy into motor energy in particular for a hot-water motor, wherein the assembly includes two closed pressure containers, both of which are filled with a gas or gas mixture, and both of which have an upper injection opening for hot and cold water. The assembly is provided with a short-circuit pipe between the two pressure containers and the short circuit pipe includes at least one controllable valve for equalizing the closed pressure containers, after the gas or gas mixture has performed its work.

IPC 1-7

F01K 27/00; F01K 21/00; F03G 7/04

IPC 8 full level

F01K 25/06 (2006.01); **F01K 21/00** (2006.01); **F01K 25/10** (2006.01); **F01K 27/00** (2006.01); **F02C 1/04** (2006.01); **F02C 1/10** (2006.01); **F02G 1/044** (2006.01); **F02G 1/05** (2006.01)

CPC (source: EP KR US)

F01K 21/005 (2013.01 - EP US); **F01K 27/00** (2013.01 - KR); **F01K 27/005** (2013.01 - EP US)

Citation (search report)

See references of WO 03004835A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 2004237525 A1 20041202; AT E422602 T1 20090215; BR 0211238 A 20040810; CA 2453017 A1 20030116; DE 10133153 C1 20020711; DE 50213273 D1 20090326; EP 1404948 A1 20040407; EP 1404948 B1 20090211; JP 2004532953 A 20041028; KR 20040018424 A 20040303; MX PA04000011 A 20050606; NO 20040036 L 20040108; WO 03004835 A1 20030116

DOCDB simple family (application)

US 48297304 A 20040601; AT 02754307 T 20020703; BR 0211238 A 20020703; CA 2453017 A 20020703; DE 0202416 W 20020703; DE 10133153 A 20010707; DE 50213273 T 20020703; EP 02754307 A 20020703; JP 2003510578 A 20020703; KR 20047000000 A 20020703; MX PA04000011 A 20020703; NO 20040036 A 20040106