

Title (en)

THERMODYNAMIC MACHINE WITH CONTINUOUSLY CIRCULATING REFRIGERANT

Title (de)

THERMODYNAMISCHE MASCHINE MIT KONTINUIERLICH ZIRKULIERENDEM KÄLTEMITTEL

Title (fr)

MACHINE THERMODYNAMIQUE A FLUIDE FRIGORIGENE A CIRCULATION CONTINUE

Publication

EP 1828588 B1 20130213 (FR)

Application

EP 05826013 A 20051213

Priority

- FR 2005003111 W 20051213
- FR 0413206 A 20041213

Abstract (en)

[origin: WO2006064118A2] The invention concerns a thermodynamic machine comprising a closed- circuit (2) circulating a refrigerant, a heat exchanger (3), a cold inlet (2f) and, at the exchanger output, a hot outlet (2c), at least one first variable-volume chamber (5₁) acting on a mobile member communicating its movement to an output system (10) and a cooler (15). The invention is characterized in that the machine comprises at least one variable-volume chamber (21) controlled by the output system (10) by being interposed between the cold inlet (2f) of the circuit and the cooler outlet, said chamber (21) providing, for an operating cycle of the chamber, reinjection of liquid into the exchanger to maintain the pressure at the hot outlet (2c) of the circuit at a substantially constant value.

IPC 8 full level

F02G 1/04 (2006.01)

CPC (source: EP US)

F01K 25/08 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2879234 A1 20060616; FR 2879234 B1 20100618; CN 101094973 A 20071226; EP 1828588 A2 20070905; EP 1828588 B1 20130213; RU 2007121774 A 20090120; US 2009282826 A1 20091119; WO 2006064118 A2 20060622; WO 2006064118 A3 20061207

DOCDB simple family (application)

FR 0413206 A 20041213; CN 200580042750 A 20051213; EP 05826013 A 20051213; FR 2005003111 W 20051213; RU 2007121774 A 20051213; US 72094005 A 20051213