

Title (en)

REFRIGERATOR, PARTICULARLY ONE USING A VUILLEUMIER CYCLE, HAVING PISTONS SUSPENDED BY GAS BEARINGS

Publication

EP 0279739 B1 19910123 (FR)

Application

EP 88400321 A 19880212

Priority

FR 8701926 A 19870216

Abstract (en)

[origin: US4840032A] It comprises a first cylinder (102), a displacement piston (104) sliding in the first cylinder (102), a conduit in which a thermal regenerator is included, a second cylinder (202), a second displacement piston (204) sliding in the second cylinder (202), means for displacing the first cylinder and the second cylinder in phase relation. A gas bearing (104a) is provided at the hot end of the first piston (104) and a gas bearing (104b) is provided at the intermediate temperature end of the first piston. A gas bearing (204b) is also provided at the intermediate temperature end of the second piston (204) and a gas bearing (204a) is provided at the cold end of the second piston (204).

IPC 1-7

F25B 9/00

IPC 8 full level

F25B 9/14 (2006.01); F02G 1/044 (2006.01)

CPC (source: EP US)

F02G 1/0445 (2013.01 - EP US); F02G 2250/18 (2013.01 - EP US); F02G 2258/10 (2013.01 - EP US); F02G 2270/50 (2013.01 - EP US)

Citation (examination)

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Cited by

DE10257951A1; FR2649784A1; US7415829B2

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EP 88400321 A 19880212; DE 3861595 T 19880212; FR 8701926 A 19870216; JP 3258888 A 19880215; US 15097188 A 19880201