

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

FR2649784A1; DE10257951A1; US7415829B2

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**EP 0279739 A1 19880824; EP 0279739 B1 19910123**; DE 3861595 D1 19910228; FR 2611031 A1 19880819; FR 2611031 B1 19890505; JP S63207957 A 19880829; US 4840032 A 19890620

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