

Title (en)

GAS COMPRESSOR DIRECTLY DRIVEN BY A HEAT SUPPLY

Publication

**EP 0178348 B1 19890906 (DE)**

Application

**EP 84112662 A 19841019**

Priority

- EP 84112662 A 19841019
- DE 3220071 A 19820527
- DE 3314705 A 19830422

Abstract (en)

[origin: WO8304281A1] A thermal engine is capable of producing mechanical power by absorbing high temperature heat and releasing low temperature heat. To this aim, a pressure cylinder (1) is divided by a displacement piston (2) into two working chambers (7, 8) which are connected together by a thermal collector (9), the cylinder and the collector being filled with high pressure gas or steam. One of the working chambers (8) is heated at a high temperature by the supply of heat, the other chamber having a low temperature due to a refrigeration effect. At least one of the working chambers (7) is connected by two non-return valves (12, 13), acting in opposite directions, with two pressure tanks (14, 15), and the two tanks under different pressures are connected by an expansion machine (16).

IPC 1-7

**F02G 1/04**

IPC 8 full level

**F02G 1/043** (2006.01); **F04B 35/00** (2006.01)

CPC (source: EP)

**F02G 1/043** (2013.01); **F04B 35/00** (2013.01); **F02G 2243/08** (2013.01); **F02G 2270/50** (2013.01); **F02G 2280/00** (2013.01)

Citation (examination)

- US 4215548 A 19800805 - BEREMAND DONALD G [US]
- US 4019335 A 19770426 - BROWNING CALVIN W

Cited by

WO03081011A1; EP2360376A4; AU2003215418B2; EP0402516A1; US5598704A; US7000389B2

Designated contracting state (EPC)

FR IT

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**DE 3314705 A1 19841025; DE 3314705 C2 19941117**; AU 1553583 A 19831216; DE 3220071 A1 19831201; EP 0110905 A1 19840620; EP 0178348 A1 19860423; EP 0178348 B1 19890906; WO 8304281 A1 19831208

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