

Title (en)
HEAT AND COLD MACHINE

Title (de)
WÄRME- UND KÄLTEMASCHINE

Title (fr)
SYSTEME COMBINE DE CHAUFFAGE ET DE REFRIGERATION

Publication
EP 0665941 B1 19990310 (DE)

Application
EP 94926850 A 19940819

Priority
• DE 4328992 A 19930828
• EP 9402754 W 19940819

Abstract (en)
[origin: WO9506848A1] The invention relates to a hot and cold machine operating on a regenerative gas circuit process with two linearly movable pistons (8, 9) in a pressuretight housing (1) which together define a hot working volume (Vw) and one of which (8) limits a hot working volume (Vh) to which heat is applied and the other (9) limits a cold working volume (Vk), while the three working volumes (Vh, Vw, Vk) are interconnected via regenerators (Rh, Rk) and heat exchangers (Ww, Wk). In order to obtain a good heat input with small outside dimensions and sufficient pressure resistance, the hot working volume (Vh) is supplied with the heat via a convex partition (6) forming part of the pressuretight housing (1), with the curve symmetrical in rotation and lagged against the housing (1).

IPC 1-7
F25B 9/14; F02G 1/04

IPC 8 full level
F02G 1/04 (2006.01); **F02G 1/043** (2006.01); **F02G 1/044** (2006.01); **F02G 1/055** (2006.01); **F02G 1/057** (2006.01); **F25B 9/14** (2006.01)

CPC (source: EP KR US)
F02G 1/043 (2013.01 - EP US); **F02G 1/0445** (2013.01 - EP US); **F02G 1/057** (2013.01 - EP US); **F25B 9/14** (2013.01 - KR);
F02G 2250/18 (2013.01 - EP US)

Designated contracting state (EPC)
CH DE ES FR GB IT LI SE

DOCDB simple family (publication)
DE 4328992 A1 19950302; BR 9405560 A 19990908; DE 59407923 D1 19990415; EP 0665941 A1 19950809; EP 0665941 B1 19990310; ES 2133574 T3 19990916; JP 3353072 B2 20021203; JP H08503063 A 19960402; KR 100337751 B1 20021107; KR 950704660 A 19951120; US 5715683 A 19980210; WO 9506848 A1 19950309

DOCDB simple family (application)
DE 4328992 A 19930828; BR 9405560 A 19940819; DE 59407923 T 19940819; EP 9402754 W 19940819; EP 94926850 A 19940819; ES 94926850 T 19940819; JP 50790795 A 19940819; KR 19950701604 A 19950426; US 43626196 A 19960116