

Title (en)
A THERMO-VOLUMETRIC MOTOR

Title (de)
THERMOVOLUMETRISCHER MOTOR

Title (fr)
MOTEUR THERMO-VOLUMETRIQUE

Publication
EP 0787259 A1 19970806 (EN)

Application
EP 95944805 A 19951020

Priority
• AU 9500696 W 19951020
• AU PM891494 A 19941020

Abstract (en)
[origin: WO9612890A1] A thermo-volumetric motor (10) comprising a continuous fluid path in the form of a refrigerant path (12), and a solar collector (14). The continuous refrigerant path (12) includes a first heat exchanger (16), flow converting means (18), a pump (19), and a condenser (20). The flow converting means (18) may comprise a turbine or a resilient tube and a rotor. The first heat exchanger (16) comprises a shell and tube arrangement, the shell containing a first phase change substance having a relatively high latent heat of fusion. In use, heat from sunlight absorbed on the solar collector (14) fuses a portion of the first phase change substance. The refrigerant in the heat exchanger (16) cools the first phase change substance causing it to solidify and the refrigerant then absorbs the latent heat of the first phase change substance. The refrigerant thereby expands and flows from the heat exchanger (16) to the flow converting means (18) via the throttle valve (21) thus providing motive power.

IPC 1-7
F03G 6/00

IPC 8 full level
F03G 6/00 (2006.01); **F03G 7/00** (2006.01)

CPC (source: EP KR)
F03G 3/00 (2013.01 - KR); **F03G 6/005** (2013.01 - EP); **F03G 7/06113** (2021.08 - KR); **F03G 7/0646** (2021.08 - KR); **Y02E 10/46** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9612890 A1 19960502; AU PM891494 A0 19941110; BR 9509422 A 19970930; CA 2202982 A1 19960502; EP 0787259 A1 19970806; EP 0787259 A4 19980603; JP H10511160 A 19981027; KR 970707386 A 19971201; MX 9702800 A 19980228

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AU 9500696 W 19951020; AU PM891494 A 19941020; BR 9509422 A 19951020; CA 2202982 A 19951020; EP 95944805 A 19951020; JP 51353896 A 19951020; KR 19970702621 A 19970421; MX 9702800 A 19951020