



(51) International Patent Classification:

F25B 27/00 (2006.01) F03C 2/30 (2006.01)
F01K 25/10 (2006.01)

(21) International Application Number:

PCT/SG2015/050186

(22) International Filing Date:

29 June 2015 (29.06.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10201503915P 19 May 2015 (19.05.2015) SG

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: AMBIENT HEAT ENGINE

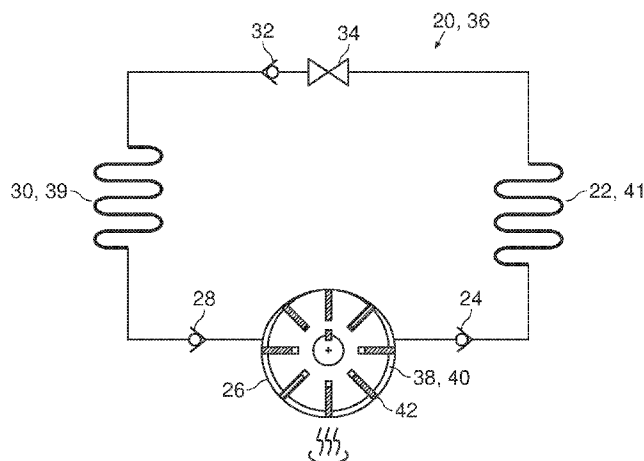


FIG. 1

(57) Abstract: A machine that harness ambient heat or waste heat and generate renewable green energy with cold energy as byproduct using a closed loop carbon dioxide working fluid. The machine is known as an ambient heat engine that comprises an expander for reducing the temperature of a fluid; a low pressure heat exchanger connected to the expander for ensuring the fluid remain fluidic; a hydraulic motor further connected to the low pressure heat exchanger for converting hydraulic pressure from fluid which receive energy from at least ambient or low grade heat and flow of the fluid into displacement; and a high pressure heat exchanger for warming back the fluid by the ambient heat to prevent freezing. The expander, the low pressure heat exchanger, the hydraulic motor and high pressure heat exchanger are connected together in forming a closed loop for circulating the fluid.