



- (51) International Patent Classification:
F02B 29/04 (2006.01)
- (21) International Application Number:
PCT/MY2012/000300
- (22) International Filing Date:
31 December 2012 (31.12.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PI 2012700755 10 October 2012 (10.10.2012) MY
- (71) Applicant: KINEFLUX SDN BHD [MY/MY]; A-5-10,
Empire Tower, Jalan SS 16/1, 47500 Subang Jaya,
Selangor (MY).
- (72) Inventor: ANTONIUS, Satryanatha; Taman Hararapan
Baru Blok E5, No. Pejuang - Medan Satria Bekasi, 17131
Jawa Barat (ID).
- (74) Agent: LOK CHOON HONG; Pintas IP Group, No. 19,
Jalan SS1/36, 47300 Petaling Jaya, Selangor Darul Ehsan
(MY).

(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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: INTERCOOLER FOR VEHICULAR ENGINE

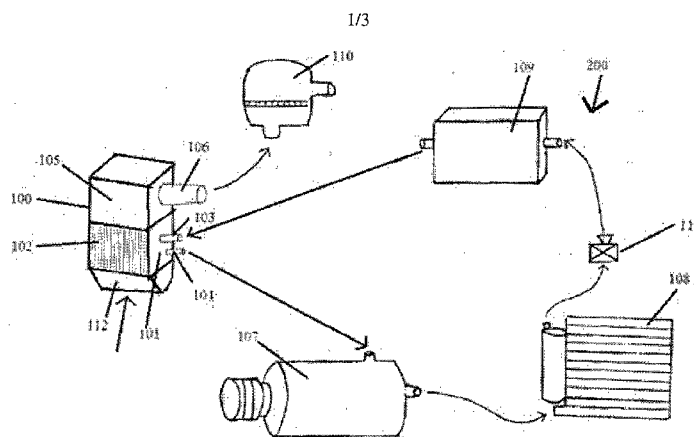


Figure 1

(57) Abstract: The present invention discloses an intercooler (100) connected to an air conditioning cycle of a vehicle comprising a heat exchanger (101) having an array of fins (102) with a plurality of tubes fabricated across the fins (102), an inlet connecting the tubes (103) to an evaporator (109) of the cycle for receiving a refrigerant flow from the evaporator (109), a first outlet (104) connecting the tubes to a compressor (107) of the cycle for discharging the refrigerant flow from the heat exchanger (101) back into the cycle through the compressor (107), and an opening (112) for ambient air to flow into the heat exchanger and past the fins (102); and a chamber (105) coupled to the heat exchanger (101) having a second outlet (106) connected to an engine (110) of the vehicle; wherein the refrigerant flow passes through the tubes to remove heat from the ambient air for forming a cold air flow to be continuously transferred to the engine (110) through the second outlet (106) of the chamber (105).

