



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : F02M 25/06, 27/04	A1	(11) International Publication Number: WO 99/25972 (43) International Publication Date: 27 May 1999 (27.05.99)
(21) International Application Number: PCT/US98/02342 (22) International Filing Date: 9 February 1998 (09.02.98) (30) Priority Data: 08/968,594 13 November 1997 (13.11.97) US (71) Applicant: GEKKO INTERNATIONAL L.C. [US/US]; 3829 West Locust Street, Davenport, IA 52804 (US). (72) Inventors: DIOTTE, Ronald, A.; 6710 116th Street, Blue Grass, IA 52726 (US). NACHTMANN, Charles, T.; 395 Moore Heights, Dubuque, IA 52003 (US). EDWARDS, James, R.; 390 Hill Street, Dubuque, IA 52001 (US). GREGORY, Robert, L.; 13608 Wesley Stevens Road, Farmington, AR 72730 (US). (74) Agents: HARRIS, Richard, D. et al.; The Law Offices of Dick and Harris, Suite 3800, 181 West Madison Street, Chicago, IL 60602 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: APPARATUS FOR THE TREATMENT OF CRANKCASE EMISSIONS MATERIALS IN A POSITIVE CRANKCASE VENTILATION SYSTEM

(57) Abstract

An apparatus (20) for the treatment of gases in a positive crankcase ventilation (PCV) system, in an internal combustion engine, is provided with a housing (25) defining a gas treatment chamber (70). At least one gas filtering medium is disposed in the chamber (70), and the gases from the engine crankcase are passed through the gas filtering medium in the chamber (70), before the gases are routed into the air intake portion (67) of the engine. In addition, the gases, after passage through the gas filtering medium, are passed through an ionization device (55).

