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(21) International Application Number: PCT/US99/24245 (22) International Filing Date: 15 October 1999 (15.10.99) (30) Priority Data: 310,486 12 May 1999 (12.05.99) 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). NACHTMAN, 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). WINTER, Frank; 1235 31st Avenue, San Mateo, CA 94403 (US). (74) Agents: HARRIS, Richard, D. et al.; 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, GM, HR, HU, ID, 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, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>

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

(57) Abstract

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

