

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054658 A1

(51) International Patent Classification⁷: **F02M 27/04**,
F23K 5/08

(21) International Application Number:
PCT/GB2004/004814

(22) International Filing Date:
17 November 2004 (17.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0327643.3 28 November 2003 (28.11.2003) GB

(71) Applicant (for all designated States except US): **MAXSYS LIMITED** [GB/GB]; Maxsys House, Bath Street, Walsall, West Midlands WS1 3BX (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TIMMS, Nigel, David** [GB/GB]; 292 St David's Road North, St Annes, Lancashire FY8 2JX (GB). **SINGH, Baljit** [GB/GB]; 83 Skip Lane, Walsall, West Midlands WS5 3LP (GB).

(74) Agents: **NEILL, Alastair, William** et al.; Appleyard Leeds, 15 Clare Road, Halifax HX1 2HY (GB).

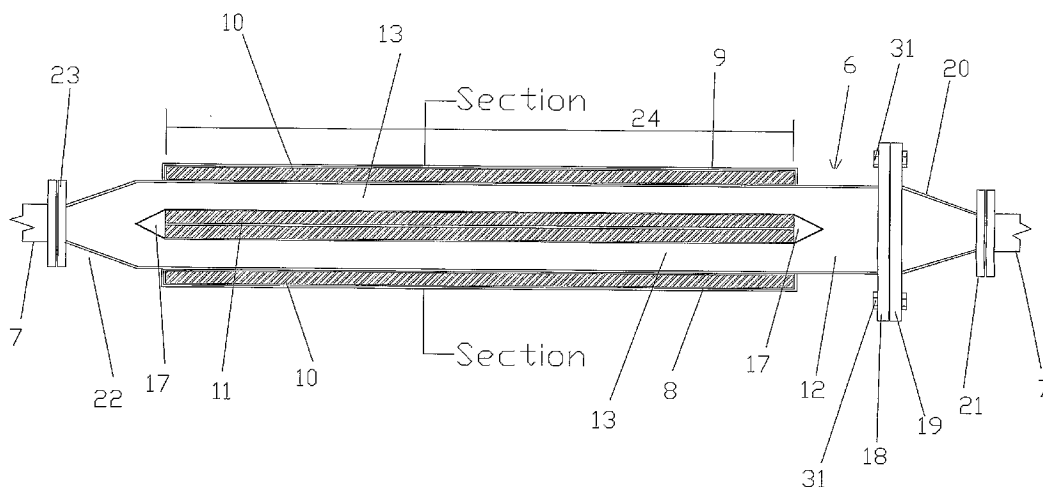
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVEMENTS FOR FUEL COMBUSTION



(57) **Abstract:** This invention relates to a magnetic fluid treatment device comprising at least one fluid channel, the or each fluid channel having at least two peripherally located magnets, the device being adapted to co-operate with a fluid supply conduit, so that, in use, fluid flowing through the fluid channel is subjected to a magnetic field; wherein the at least two magnets are located on opposite sides of the or each fluid channel and have a separation of less than about 90mm. The invention further relates to a magnetic fluid treatment device comprising at least one fluid channel, the or each fluid channel having at least one peripherally located magnet, wherein the at least one magnet is removably received in a body section of the device.

WO 2005/054658 A1