

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 December 2006 (28.12.2006)

PCT

(10) International Publication Number
WO 2006/137874 A2

(51) International Patent Classification:
F41A 5/00 (2006.01)

(21) International Application Number:
PCT/US2005/033529

(22) International Filing Date:
19 September 2005 (19.09.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/610,703 17 September 2004 (17.09.2004) US
Not furnished 19 September 2005 (19.09.2005) US

(71) Applicant (*for all designated States except US*): **COLT DEFENSE LLC** [US/US]; 545 New Park Avenue, Hartford, CT 06110 (US).

(72) Inventors: **KUCZYNSKI, Grzegorz**; 85 Burlington Road, Unionville, CT 06085-1376 (US). **DORSEY, Josh**; 13 Bears Den Way, Columbia, CT 06237 (US).

(74) Agents: **GREEN, Clarence, A.** et al.; Perman & Green, LLP, 425 Post Road, Fairfield, CT 06824 (US).

(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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

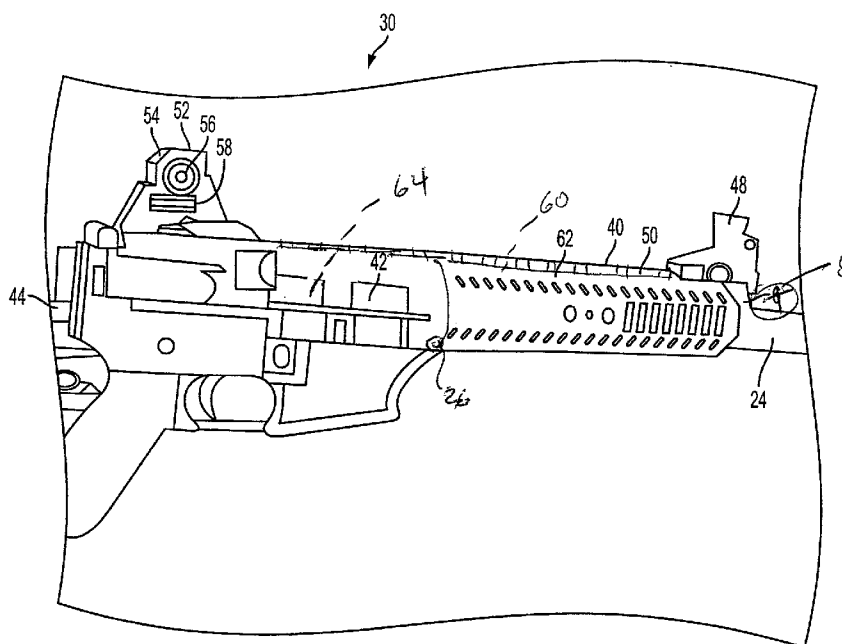
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, 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:

— *without international search report and to be republished upon receipt of that 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: FIREARM HAVING AN INDIRECT GAS OPERATING SYSTEM



(57) Abstract: An M4 type automatic or semi-automatic firearm having an indirect gas operating system. A bolt assembly has a striking surface. The bolt assembly is enclosed within an M4 type receiver assembly. A barrel assembly having a bore is coupled to the receiver assembly. A gas block having a cylinder is fitted to the barrel assembly with the cylinder in communication with the bore. A piston and rod assembly has a piston and a striking rod, with the piston fitted to the cylinder. Gas discharged from a fired cartridge displaces the piston and causes the striking rod to strike the striking surface displacing the bolt assembly.

WO 2006/137874 A2