



(51) International Patent Classification:

F41A 3/26 (2006.01) *F41A 5/24* (2006.01)
F41A 3/64 (2006.01) *F41A 17/64* (2006.01)
F41A 3/70 (2006.01) *F41A 17/00* (2006.01)
F41A 3/84 (2006.01) *F41A 19/10* (2006.01)
F41A 3/72 (2006.01) *F41A 19/42* (2006.01)
F41A 5/18 (2006.01) *F41A 15/14* (2006.01)
F41A 5/26 (2006.01) *F41A 19/13* (2006.01)
F41A 11/00 (2006.01)

(21) International Application Number:

PCT/US2012/021368

(22) International Filing Date:

13 January 2012 (13.01.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/433,115 14 January 2011 (14.01.2011) US
61/524,138 16 August 2011 (16.08.2011) US

(71) Applicant (for all designated States except US): **ARMW-EST, LLC** [US/US]; 955 West Rosser Street, Prescott, Arizona 86305 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SULLIVAN, Leroy, James** [US/US]; 955 West Rosser Street, Prescott, Arizona 86305 (US). **WATERFIELD, Robert Lloyd** [US/US]; 624 Wilderness Point, Prescott, Arizona 86303 (US). **OSTROWSKI, Alan H.** [US/US]; 955 West Rosser Street, Prescott, Arizona 86305 (US). **LATULIPPE, JR., Paul N.** [US/US]; 485 Reed Road, Chino Valley, Arizona 86323 (US). **EYSSAUTIER, Hyunjung Samuel** [US/US]; 1323 Sabatina Street, Prescott, Arizona 86303 (US).

(74) Agent: **CARTE, Norman E.**; Haynes And Boone, LLP, 2323 Victory Avenue, Suite 700, Dallas, Texas 75219-7673 (US).

(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, 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, 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, MD, 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).

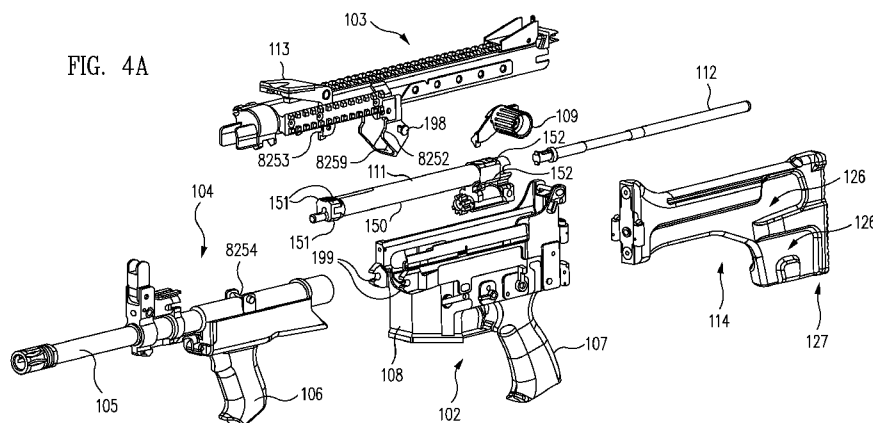
Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

15 August 2013

(54) Title: FIREARM



(57) Abstract: A firearm (100) comprising a bolt carrier (111) and a backbone (103), the bolt carrier (111) being at least partially guided by the backbone (103).