

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International BureauRTMP COPY
+
1PER +

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT) Annex

(51) International Patent Classification ⁶ : F41A 33/02	A1	(11) International Publication Number: WO 95/30124 ✓
		(43) International Publication Date: 9 November 1995 (09.11.95)

(21) International Application Number: PCT/US95/05253

(22) International Filing Date: 28 April 1995 (28.04.95)

(30) Priority Data:

08/237,717 ✓

29 April 1994 (29.04.94) ✓

US

08/415,595 ✓

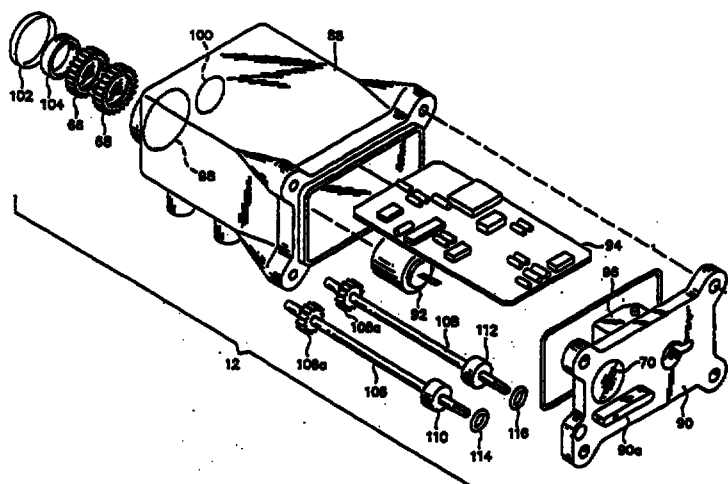
3 April 1995 (03.04.95) ✓

US

(71) Applicant: CUBIC DEFENSE SYSTEMS, INC. [US/US];
9333 Balboa Avenue, San Diego, CA 92123-1589 (US).(72) Inventors: PARIKH, Himnashu, N.; 4435 Nobel Drive #48,
San Diego, CA 92122 (US). HEALEY, Fritz, W.; 930
Alyssum Road, Carlsbad, CA 92009 (US).(74) Agents: BAKER, Freling, E. et al.; Baker, Maxham, Jester &
Meador, Suite 2770, 750 B Street, San Diego, CA 92101
(US).(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH,
CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE,
KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE,
DK, ES, 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), ARIPO patent (KE, MW, SD, SZ, UG).**Published***With international search report.**Before the expiration of the time limit for amending the
claims and to be republished in the event of the receipt of
amendments.*

SL 9611684-3

(54) Title: LASER SMALL ARMS TRANSMITTER ✓

**(57) Abstract**

A laser small arms transmitter (SAT) which may be affixed to the stock of a rifle such as an M16 used by a soldier in training with a multiple integrated laser engagement system (MILES). The transmitter includes a housing assembly having a forward end with a window through which the beam of a laser diode is emitted. A pair of optical wedges are positioned inside the housing assembly between the laser diode and the window. The optical wedges are supported for independent rotation about a common optical axis for steering the laser beam. An alignment head may be physically mated to the rearward end of the housing assembly for driving a pair of shafts to rotate the optical wedges in the alignment of the transmitter so that a soldier can accurately hit a target once he or she has located the target in the conventional sights of the rifle. The laser transmitter may also include a sensor for detecting the firing of a blank cartridge, a fire LED mounted inside the housing for producing an optical signal to indicate to the alignment head that the laser diode has been energized, and an inductive switch connected to a power circuit and actuable by an induction coil in the alignment head to energize the laser diode.

8-4831730

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgyzstan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo	KR	Republic of Korea	SE	Sweden
CH	Switzerland	KZ	Kazakhstan	SI	Slovenia
CI	Côte d'Ivoire	LI	Liechtenstein	SK	Slovakia
CM	Cameroon	LK	Sri Lanka	SN	Senegal
CN	China	LU	Luxembourg	TD	Chad
CS	Czechoslovakia	LV	Latvia	TG	Togo
CZ	Czech Republic	MC	Monaco	TJ	Tajikistan
DE	Germany	MD	Republic of Moldova	TT	Trinidad and Tobago
DK	Denmark	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	US	United States of America
FI	Finland	MN	Mongolia	UZ	Uzbekistan
FR	France			VN	Viet Nam
GA	Gabon				

96 1 16 84 -3