

1) Family number: 45169763 (US2012129136A)

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Title: APPARATUS FOR CONVERTING A PISTOL INTO A WEAPON SIMULATOR

Abstract: An apparatus for non-permanent conversion of a semiautomatic pistol into a compressed gas powered weapon simulator. The apparatus replaces the pistol's barrel, recoil spring and magazine with no modification of the pistol, which allows retaining the operational functions of the pistol's remaining components. Compressed gas, from the simulation magazine unit, is used in the compressed gas valve means, in the barrel unit, to operate the slide mechanism, to compress the simulation recoil spring, and to emit a laser pulse beam on a target when activated by the firing mechanism; and battery power, from the simulation magazine unit, is used to count the number of shots, lock the slide after a predetermined number of shots and transmit information from the weapon simulator to a remote data system. The compressed simulation recoil spring returns the slide mechanism back to its original position, unless locked open by the apparatus.

Classifications:

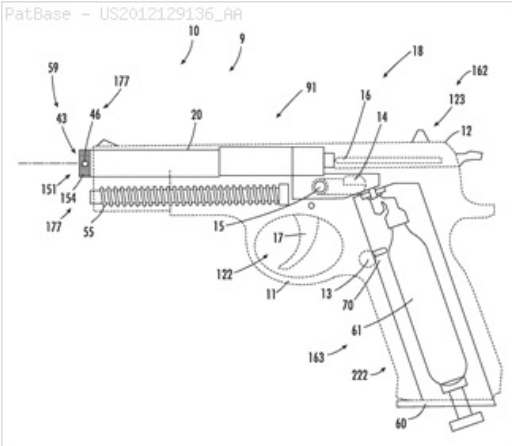
International (IPC 8-9): F41A33/00 F41A33/02 F41A33/06 F41B11/06

F41B11/62 (Advanced/Invention)

CPC: F41A33/02 F41A33/06 F41B11/62

European: F41A33/02 F41A33/06 F41B11/62

US: 434/11 434/18 434/18P



Family:

Publication number	Publication date	Application number	Application date
BRPI0922792 A2	20160105	BR2009PI22792	20091204
CA2745701 AA	20100610	CA20092745701	20091204
CA2745701 C	20170103	CA20092745701	20091204
US2012129136 AA	20120524	US20090132965	20091204
US8602784 BB	20131210	US20090132965	20091204
WO10065124 A1	20100610	WO2009US06379	20091204

Priority:

US20080200979P 20081205 US20090132965 20091204 WO2009US06379 20091204

Probable Assignee: DVORAK VOJTECH

Assignee(s): (std): DVORAK VOJTECH

Assignee(s): VOJTECH DVORAK

Inventor(s): (std): DVORAK VOJTECH

Inventor(s): VOJTECH DVORAK

Agent(s): RIDOUT AND MAYBEE LLP; JAMES R; TOLLETTE STEVEN R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 30669577 (US2004121292A)

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Title: WIRELESS DATA COMMUNICATION LINK EMBEDDED IN SIMULATED WEAPON SYSTEMS

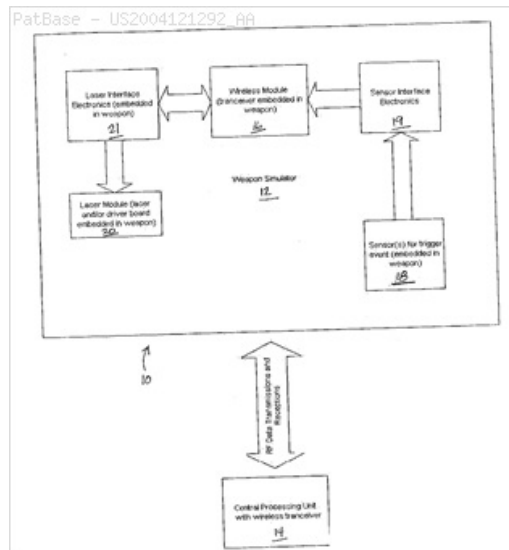
Abstract: A weapon simulator assembly having a wireless module provided in a simulated weapon to maximize the freedom of movement for the user and to provide complete diagnostics from electronic sensors for users of the firearms training simulator. The wireless module is embedded in the simulated weapon used in the simulator assembly and connected to various sensors to obtain operational information. The wireless data communication link is a wireless module using a frequency hopping spread spectrum technology such that the wireless module can fit in a small firearm simulator, such as a handgun or chemical spray simulator.

Classifications:

International (IPC 8-9): F41G3/26 (Advanced/Invention);

F41A (Subclass/Invention)

International (IPC 1-7): F41A33/00
CPC: F41A33/00
European: F41A33/00
US: 434/11 434/11P 434/16 434/19 434/21 434/22 434/23



Family:

Publication number	Publication date	Application number	Application date
AT482371 E	20101015	AT20030784819T	20030724
AU2003256802 AA	20040225	AU20030256802	20030724
AU2003256802 BB	20090730	AU20030256802	20030724
CA2495525 AA	20050207	CA20032495525	20030724
CA2495525 C	20110118	CA20032495525	20030724
DE60334306 D1	20101104	DE20036034306	20030724
EP1546633 A2	20050629	EP20030784819	20030724
EP1546633 A4	20061011	EP20030784819	20030724
EP1546633 B1	20100922	EP20030784819	20030724
EP1546633 B2	20131009	EP20030784819	20030724
ES2353381 T3	20110301	ES20030784819T	20030724
ES2353381 T5	20140131	ES20030784819T	20030724
HK1079841 A1	20110715	HK20050112071	20051229
HK1079841 A3	20060413	HK20050112071	20051229
IL166703 A0	20060115	IL20050166703	20050206
US2004121292 AA	20040624	US20030444888	20030523
US7291014 BB	20071106	US20030444888	20030523
WO04015356 A2	20040219	WO2003US23315	20030724
WO04015356 A3	20040610	WO2003US23315	20030724

Priority:

US20020401970 20020808 US20020401970P 20020808 US200401970P 20020808
US20030444888 20030523 EP20030784819 20030724 WO2003US23315 20030724

Probable Assignee: MEGGITT TRAINING SYSTEMS INC

Assignee(s): (std): FATS INC ; MEGGITT TRAINING SYSTEMS INC

Assignee(s): KLUSENDORF KELVIN WILLIAM ; KLUSENDORF KEVIN WILLIAM ; CHUNG BOBBY HSIANG HSU ; CHUNG BOBBY HSIANG HUA

Inventor(s): (std): CHUNG BOBBY HSIANG HSU ; CHUNG BOBBY HSIANG HUA ; KLUSENDORF KELVIN WILLIAM ; KELVIN WILLIAM KLUSENDORF ; BOBBY HSIANG HSU CHUNG ; CHUNG BOBBY ; KLUSENDORF KELVIN

Inventor(s): KLUSENDORF KEVIN WILLIAM

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; RIDOUT AND MAYBEE LLP; MCKEOWN YVONNE MARY; DURAN LUIS ALFONSO; SMITH GAMBRELL AND RUSSELL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

3) Family number: 23974336 (US2003056778A)

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Title: COMPRESSED GAS-POWERED GUN SIMULATING THE RECOIL OF A CONVENTIONAL FIREARM

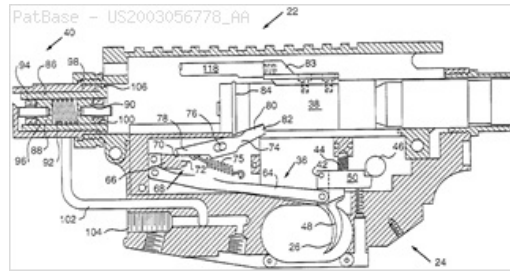
Abstract: A compressed gas powered gun provides recoil simulating the recoil of a gun firing gunpowder propelled projectiles. The valve assembly provides both consistent shot to shot pressure, and rearward gas pressure for generating recoil. Preferred embodiments of the compressed gas powered gun may include means for adjusting the amount of recoil provided. A trigger mechanism permitting semiautomatic operation, or full automatic operation at a user selectable cyclic rate, is provided. The air gun provides consistent gas pressure behind the projectile from shot to shot. A magazine and magazine indexing system for loading projectiles into the firing chamber in a manner contributing to the accuracy of the air gun is also provided.

Classifications:

International (IPC 8-9): F41A33/06 F41B11/00 F41B11/02 F41B11/32
F41C23/06 F41G1/00 F41G3/26 (Advanced/Invention)

International (IPC 1-7): F41A17/00 F41A19/00 F41A25/00 F41A33/00

F41A33/06 F41A9/00 F41B1/00 F41B11/00 F41B11/02 F41C3/14
CPC: F41A33/02 F41A33/06 F41C23/06 F41B11/721 F41B11/51
F41B11/54 F41B11/71 F41B11/57
European: F41B11/00 F41B11/51 F41B11/54 F41B11/57 F41B11/72
F41C23/06
US: 124/31 124/31P 124/40 124/48 124/52 124/56 124/56P 124/72
124/73 124/74 124/74P 42/117 434/18 434/18P 434/21 89/33.03



Family:

Publication number	Publication date	Application number	Application date
AT475854 E	20100815	AT20020733778T	20020109
AU2002305910 AA	20021015	AU20020305910	20020109
DE60237141 D1	20100909	DE20026037141	20020109
EP1360449 A2	20031112	EP20020733778	20020109
EP1360449 A4	20040915	EP20020733778	20020109
EP1360449 B1	20100728	EP20020733778	20020109
US2003056778 AA	20030327	US20020289021	20021106
US2003101979 AA	20030605	US20010756891	20010109
US2004074486 AA	20040422	US20030250815	20030709
US2005072415 AA	20050407	US20040838022	20040503
US2005260545 AA	20051124	US20040994840	20041122
US6729322 BB	20040504	US20020289021	20021106
US6820608 BB	20041123	US20010756891	20010109
US6874492 BA	20050405	US20040838022	20040503
US7025052 BB	20060411	US20020250815	20020109
US7581954 BB	20090901	US20040994840	20041122
WO02079709 A2	20021010	WO2002US00793	20020109
WO02079709 A3	20030530	WO2002US00793	20020109

Priority:

US20010756891 20010109 US20020250815 20020109 WO2002US00793 20020109
US20020289021 20021106 US20030250815 20030709 US20040838022 20040503
US20040994840 20041122

Probable Assignee: NEW MATICS LICENSING LLC

Assignee(s): (std): NEW MATICS LICENSING LLC ; NEW MATICS LICENSING LLC ; NEWMATICS LICENSING LLC ; SCHAVONE MARK

Assignee(s): NEWMATICS LICENSING LLC A DELAWARE LTD ; NEWMATICS LICENSING LLC A DELAWARE LIABILITY CORP LTD ; NEWMATICS LICENSING LLC A DELAWARE LIABILITY CORP

Inventor(s): (std): SCHAVONE MARK

Inventor(s): MARK SCHAVONE

Agent(s): BARTON MATTHEW THOMAS; WILLIAM F LANG IV ECKERT SEAMANS CHERIN AND MELLOTT LLC; ECKERT SEAMANS CHERIN AND MELLOTT LLC; WILLIAM F; LANG PATENT LAW LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

4) Family number: 62650688 (US2016169608A)

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Title: FIREARM SIMULATORS

Abstract: Firearm simulators are disclosed. In embodiments, a firearm simulator includes a processor, a memory module, a trigger unit that outputs a trigger output signal, a magazine sensor that outputs a magazine sensor output signal, an optoelectronic output device, an optoelectronic sensor, and a wireless communication device. In embodiments, the firearm simulator determines whether a trigger prep event has occurred, determines whether a trigger break event has occurred, and transmits the trigger prep event and the trigger break event with the wireless communication device. In embodiments, the optoelectronic output device is activated when a trigger break event has occurred and a simulated round is available to be fired. In embodiments, a firearm simulator wirelessly transmits information, such as magazine insertion events, magazine ejection events, trigger break events, and trigger prep event to a computing device that displays information pertaining to the received information.

Classifications:

International (IPC 8-9): F41A33/02 (Advanced/Invention)

CPC: F41A33/02

US: 434/16 434/22



Family:

Publication number	Publication date	Application number	Application date
US2016169608 AA	20160616	US20150969842	20151215
US2019390932 AA	20191226	US20190564437	20190909
US10451376 BB	20191022	US20150969842	20151215

Priority:

US20140092439P 20141216 US20150134728P 20150318 US20150969842 20151215
US20190564437 20190909

Probable Assignee:

BAC MICHAEL Z

Assignee(s): (std):

BAC MICHAEL Z ; SCHULZ KURT S

Inventor(s): (std):

BAC MICHAEL Z ; SCHULZ KURT S

Agent(s):

DINSMORE AND SHOHL LLP

5) Family number: 30281025 (US2004025943A)

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Title: REGULATED GAS SUPPLY SYSTEM

Abstract: A regulated gas supply system having a body defining a pressurized gas reservoir connected to a high-pressure regulator that regulates the high pressure gas from the gas reservoir to disperse the gas at a desired pressure. The regulating assembly includes a piston chamber with a piston slidably positioned in the piston chamber. A spring is positioned between one side of the piston and the piston chamber, with the piston including a piston channel to allow pressurized gas to flow through the piston. Pressure is developed on the piston opposite the spring that is proportional to the force of the spring, providing a balanced piston. The system is miniature and self-contained to fit inside any number of small pneumatically operated devices.

Classifications:

International (IPC 8-9): F15D F15D1/00 F41A F41A33/00 F41A33/06 F41B F41B11/02 F41B11/32 G05D G05D16/02 G05D16/04 G05D16/10 (Advanced/Invention);

F15D F41A F41B G05D (Subclass/Invention)

International (IPC 1-7): F15D1/00 F41A33/00 F41G G05D16/04 G05D16/10

CPC: F41A33/06 F41B11/56 F41B11/724 G05D16/103 Y10T137/7504 Y10T137/7801 Y10T137/7808 Y10T137/7811 Y10T137/86574 Y10T137/8667 Y10T137/86678 Y10T137/86686

European: F41A33/06 F41B11/56 F41B11/72 G05D16/10B

US: 137/454.2 137/505.18 137/505.180P 137/505.25 137/505.250P 137/505.28 137/625.2 137/625.25 137/625.26 137/625.27 222/3 42/106 434/11 434/16 434/18 434/18P 434/19 434/21 89/27.11

PatBase - US2004025943_AA

Patent Application Publication Feb. 12, 2004 Sheet 1 of 3 US 2004/0025943 A1

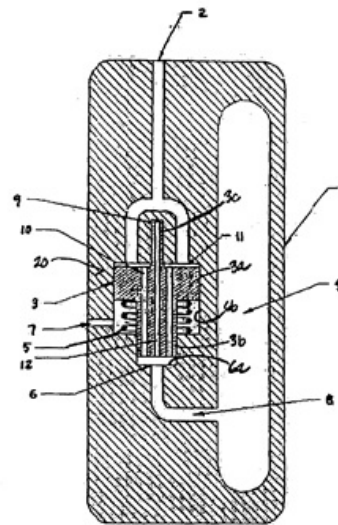


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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AT474144 E	20100715	AT20030754378T	20030724
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AU2003268025 BB	20090212	AU20030268025	20030724
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CA2584749 AA	20070419	CA20052584749	20051021
DE60329508 D1	20091112	DE20036029508	20030724
DE60333375 D1	20100826	DE20036033375	20030724
DK1546831 T3	20100215	DK20030748976T	20030724
EP1546565 A2	20050629	EP20030754378	20030724

EP1546565 A4	20060510	EP20030754378	20030724
EP1546565 B1	20100714	EP20030754378	20030724
EP1546831 A2	20050629	EP20030748976	20030724
EP1546831 A4	20060823	EP20030748976	20030724
EP1546831 B1	20090930	EP20030748976	20030724
EP1803043 A2	20070704	EP20050815005	20051021
EP1803043 A4	20110720	EP20050815005	20051021
ES2334440 T3	20100310	ES20030748976T	20030724
ES2344735 T3	20100906	ES20030754378T	20030724
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HK1079865 B	20110304	HK20050112069	20051229
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IL166704 A0	20060115	IL20050166704	20050206
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IL182607 A0	20070724	IL20050182607	20051021
IN03088DN2007 A	20070831	IN2007DN03088	20070425
IN275827 B	20160930	IN2007DN03088	20070425
US2004025943 AA	20040212	US20030631276	20030731
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US2005115613 AA	20050602	US20040970668	20041021
US6854480 BB	20050215	US20030631276	20030731
US7140387 BB	20061128	US20040970668	20041021
US7306462 BB	20071211	US20030631944	20030731
WO04015277 A2	20040219	WO2003US23053	20030724
WO04015277 A3	20040617	WO2003US23053	20030724
WO04015357 A2	20040219	WO2003US23316	20030724
WO04015357 A3	20040708	WO2003US23316	20030724
WO06047246 A2	20060504	WO2005US37813	20051021
WO06047246 A3	20060615	WO2005US37813	20051021

Priority:

US20020402464P 20020809 WO2003US23053 20030724 WO2003US23316 20030724
US20030631276 20030731 US20030631944 20030731 US20040970668 20041021
WO2005US37813 20051021

Probable Assignee: MEGGITT TRAINING SYSTEMS INC

Assignee(s): (std): FATS INC ; FLEMING PAUL HEATH ; WILSON HENRY MARTIN ; METCALFE COREY HOWARD ; WILSON HENRY MARTIN JR ; MEGGITT TRAINING SYSTEMS INC ; PAUL HEATH FLEMING

Assignee(s): HENRY MARTIN WILSON ; METCALFE COREY H ; WILSON HENRY M JR ; WILSON HENRY MJR ; TS INC FA ; FIREARMS TRAINING SYSTEMS INC ; FLEMING PAUL H ; CAPITALSOURCE FINANCE LLC ; COREY HOWARD METCALFE

Inventor(s): (std): WILSON HENRY M JR ; FLEMING PAUL H ; METCALFE COREY H ; COREY HOWARD METCALFE ; PAUL HEATH FLEMING ; HENRY MARTIN JR WILSON ; FLEMING PAUL ; METCALFE COREY ; WILSON HENRY ; WILSON HENRY MARTIN JR ; WILSON JR HENRY MARTIN ; METCALFE COREY HOWARD ; FLEMING PAUL HEATH ; WILSON HENRY MARTIN

Inventor(s): WILSON HENRY MJR ; HENRY MARTIN WILSON ; JR HENRY MARTIN ; WILSON ; HENRY MARTIN WILSON JR

Agent(s): SHELSTON IP PTY LTD; SHELSTON IP; RIDOUT AND MAYBEE LLP; MCKEOWN YVONNE MARY; BAKER AND MCKENZIE; SOROKER AGMON; SMITH GAMBRELL AND RUSSELL LLP SUITE 3100 PROMENADE II; SMITH GAMBRELL AND RUSSELL LLP, SUITE 3100 PROMENADE II; SMITH GAMBRELL AND RUSSELL; SMITH GAMBRELL AND RUSSELL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 28314836 (US2002142267A)

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Title: INTEGRATED PERFORMANCE SIMULATION SYSTEM FOR MILITARY WEAPON SYSTEMS

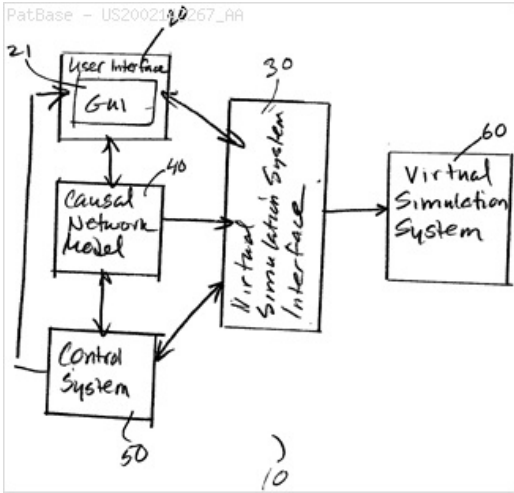
Abstract: An integrated evaluation and simulation system interactively evaluates concept design decisions and design requirements in the context of an operational weapon system. The combat effectiveness of a weapon system may also be concurrently tested by virtual simulation. A computer system is programmed to implement a causal network model comprising an integrated collection of analysis models for creating a virtual representation of a weapon system. The integrated evaluation and simulation system includes a user interface operably coupled to at least the computer system to selectively input data into the causal network model and receive information from the causal network model and at least one virtual simulation system. The system further includes either a virtual simulation system operably coupled to the causal network model or, as part of the computer system, a virtual simulation system interface to communicate with a virtual simulation system.

Classifications:

International (IPC 8-9): F41A33/00 F41G7/00 (Advanced/Invention);
F41A33/00 F41G7/00 (Core/Invention)

International (IPC 1-7): F31A33/00 F41A33/00 F41G3/26 G09B19/00

CPC: F41G7/006



Family:

Publication number	Publication date	Application number	Application date
AU2002338363 AA	20021021	AU20020338363	20020328
US2002142267 AA	20021003	US20010824512	20010402
US2002150866 AA	20021017	US20020115590	20020402
US2002192622 AA	20021219	US20020115148	20020402
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US6945781 BB	20050920	US20020115148	20020402
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WO02082000 C2	20021128	WO2002US09661	20020328

Priority:

US20010824512 20010402 WO2002US09661 20020328 US20020115148 20020402
US20020115590 20020402

Probable Assignee: UNITED DEFENSE LP

Assignee(s): (std): CLIVE PETER D ; KNOWLES DOUGLAS A ; PERRY JOHN S ; PETERSON TIMOTHY W ; SEUM CHARLES S ; UNITED DEFENSE LP ; UNITED DEFENSE LP

Assignee(s): UNITED DEFENSE LP SUITE ; UNITED DEFENSE L P

Inventor(s): (std): PERRY JOHN S ; COOPER DAVID A ; JOHN S PERRY ; PETERSEN TIMOTHY W ; KNOWLES DOUGLAS A ; SEUM CHARLES S ; CLIVE PETER D ; PETERSON TIMOTHY W

Inventor(s): TIMOTHY W PETERSON ; PETER D CLIVE ; CHARLES S SEUM ; DOUGLAS A KNOWLES ; DAVID A COOPER

Agent(s): PATTERSON THUENTE SKAAR AND CHRISTENSEN PA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

7) Family number: 41882499 (US2008127538A)

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Title: SMART MAGAZINE FOR A WEAPON SIMULATOR AND METHOD OF USE

Abstract: A weapon simulator assembly for use by an operator in weapon simulation training includes a simulated weapon and a simulated magazine detachably connected to the simulated weapon at a magazine receiver. A weapon processor is housed in the simulated weapon to monitor the number of rounds of simulated ammunition fired in relation to the simulated magazine. When the simulated magazine, which is identifiable by the weapon processor, is connected to the simulated weapon, the weapon processor will recognize the magazine by connecting with a magazine circuit having updated operating information or by identifying the magazine according to a magnetic signature member. The weapon processor will thereby monitor the number of rounds of simulated ammunition fired by a particular magazine, and disable use of the specific magazine once the simulated magazine has used the predetermined number of simulated rounds of ammunition.

Classifications:

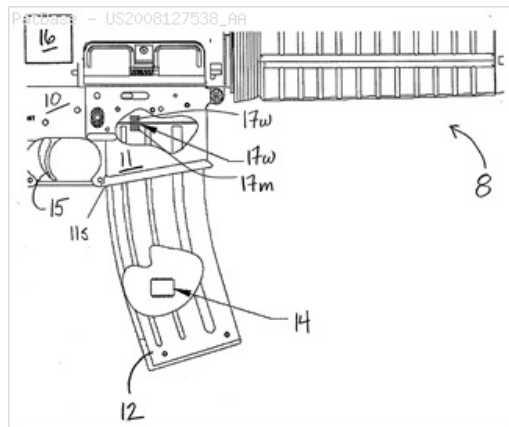
International (IPC 8-9): A63H33/30 F41A33/00 (Advanced/Invention);

A63H33/30 F41A33/00 (Core/Invention)

CPC: F41A9/62 F41A19/01 F41A33/02

European: F41A19/01 F41A33/02 F41A9/62

US: 42/1.02 434/24



Family:

Publication number	Publication date	Application number	Application date
US2008127538 AA	20080605	US20070748942	20070515
WO08097242 A2	20080814	WO2007US11580	20070515
WO08097242 A3	20081009	WO2007US11580	20070515

Priority:

US20060747288P 20060515 US20070748942 20070515

Probable Assignee: MEGGITT TRAINING SYSTEMS INC

Assignee(s): (std): BARRETT DAVID ; FATS INC ; TAVROVSKY IGOR

Assignee(s): MEGGITT TRAINING SYSTEMS INC

Inventor(s): (std): TAVROVSKY IGOR ; BARRETT DAVID

Agent(s): SMITH GAMBRELL AND RUSSELL; HOLLAND CHRISTOPHER A

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 54588848 (US2014173964A)

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Title: WEAPON FIRING SIMULATOR

Abstract: A bullet-free training magazine designed to simulate real firing sounds and sights. The magazine is part of a magazine assembly which includes a magazine adaptor, a push to fire (PTF) trigger shaped to fit over a regular weapon trigger and to a fire flashlight. The PTF trigger and the fire flashlight are connected physically to the adaptor through two separate electrical cables. The magazine and the adaptor are coupled electrically through matching electrical interfaces and are designed for combined insertion into the magazine housing of a weapon. The magazine adaptor includes a first section adapted to attach to a magazine insertion member and including an adaptor electrical interface, a second section with two electrical sockets connected to the electrical cables, and a mounting adaptor member for mounting the magazine adaptor to fit into the magazine housing and into a firing chamber of the weapon.

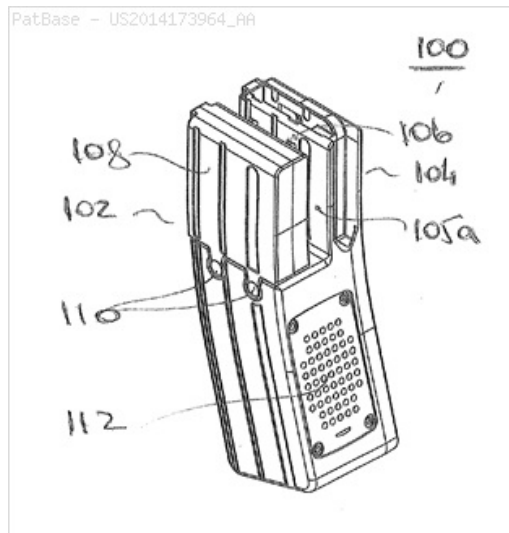
Classifications:

International (IPC 8-9): F41A33/02 F41A33/04 F41G (Advanced/Invention);

F41A F41G (Subclass/Invention)

CPC: F41A33/02 F41A33/04

US: 42/90 434/21



Family:

Publication number	Publication date	Application number	Application date
DE602013003071 D1	20151029	DE201360003071T	20131001
EP2746713 A1	20140625	EP20130186830	20131001

EP2746713 B1	20150916	EP20130186830	20131001
IL223807 A0	20130627	IL20120223807	20121223
IL223807 A1	20161130	IL20120223807	20121223
US2014173964 AA	20140626	US20130024776	20130912
US8991090 BB	20150331	US20130024776	20130912

Priority:

IL20120223807 20121223 EP20130186830 20131001

Probable Assignee: BAGIRA SYSTEMS LTD

Assignee(s): (std): BAGIRA SYSTEMS LTD

Inventor(s): (std): MIZRACHI YARON

Agent(s): SCHIEBER FARAGO; FARAGO PATENTANWALTE; MODIANO MICAELA NADIA; NATHAN AND ASSOCIATES; NATHAN AND ASSOCIATES PATENT AGENTS LTD; MENACHEM

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

9) Family number: 60050174 (US2015226516A)

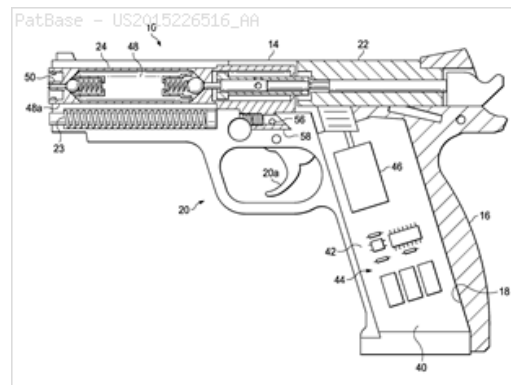
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Title: CONVERSION OF A FIREARM TO A FIREARM SIMULATOR

Abstract: Apparatus for conversion of a firearm into a compressed gas powered firearm simulator for simulating shooting including a simulated barrel unit, which includes a rechargeable compressed gas reservoir therein. The reservoir in the barrel unit is rechargeable via a fill port included in the barrel unit, and a metering valve provided in the barrel unit permits the pulsed release of compressed gas from the barrel unit to simulate firing.

Classifications:

International (IPC 8-9): F41A F41A11/02 F41A21/26 F41A33/00 F41A33/02 F41A33/06 F41B11/50 F41B11/62 F41B11/72 F41B11/723 F41G1/02 (Advanced/Invention); F41B11/62 F41B11/721 F41B11/723 (Advanced/Non-invention)
CPC: F41A11/02 F41A33/02 F41A33/06 F41B11/50 F41B11/62 F41B11/723 F41A21/26 F41B11/72 F41B11/721
US: 1/1 124/73



Family:

Publication number	Publication date	Application number	Application date
AT16556 U1	20200115	AT20180050264U	20150126
CA2939734 AA	20160815	CA20152939734	20150126
CA2939734 C	20171107	CA20152939734	20150126
CZ32655 U1	20190320	CZ20180035739U	20150126
DE202015009697 U1	20190502	DE201520009697U	20150126
EP3105527 A1	20161221	EP20150707255	20150126
PL128056 U1	20191118	PL20150128056U	20150126
US2015226516 AA	20150813	US20140480635	20140909
US9297607 BB	20160329	US20140480635	20140909
US10054385 BA	20180821	US20170607672	20170529
WO15120826 A1	20150820	WO2015CZ00008	20150126
WO15120826 A4	20151029	WO2015CZ00008	20150126
ZA201605926 A	20170830	ZA20160005926	20160825

Priority:

US20140939273P 20140213 US20140480635 20140909 EP20150707255 20150126
WO2015CZ00008 20150126 US20160997507 20160116 US20170607672 20170529

Probable Assignee: DVORAK VOJTECH

Assignee(s): (std): DVORAK VOJTECH

Inventor(s): (std): DVORAK VOJTECH

Agent(s): EQUINOX; PRAXIS; SEDLAK JIRI; JAMES R; BELL JAMES R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 1304576 (US4079525A)

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Title: Weapon recoil simulator

Abstract: An apparatus for simulating the recoil force of a weapon A recoil force generator is coupled through a linkage to the weapon in such a manner that the recoil force is substantially coaxial with the axis of the weapon over wide variations in weapon aiming positions. The simulated recoil force is also used to provide simulation of weapon recocking, round counting and empty weapon simulation.

Classifications:

International (IPC 8-9): F41A33/00 F41C27/00

F41G3/26 (Advanced/Invention);

F41A33/00 F41G3/00 (Core/Invention)

International (IPC 1-7): F41C21/18 F41C27/00 F41C29/00 F41C31/04

F41F27/00 F41G3/16 F41G3/26 G09B9/00

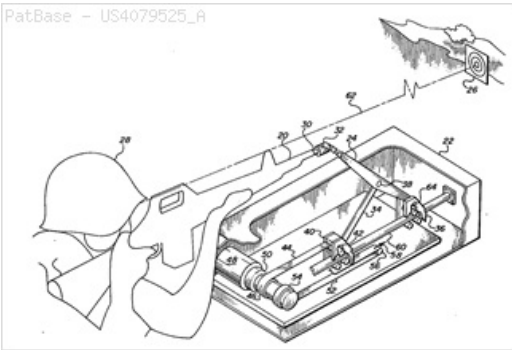
CPC: F41A33/06

European: F41A33/06

US: 35/25 434/18

JP F-Term: 2C014 2C014/CA00

JP F-Index: F41G3/26/A F41G3/26/B



Family:

Publication number	Publication date	Application number	Application date
AU197725977 A1	19781214	AU19770025977	19770609
AU503195 B2	19790823	AU19770025977	19770609
BR7703754 A	19780321	BR19770003754	19770610
CA1102544 A1	19810609	CA19770279597	19770601
DE2726396 A1	19771222	DE19772726396	19770610
DE2726396 C2	19861211	DE19772726396	19770610
FR2354531 A1	19780106	FR19770017803	19770610
FR2354531 B3	19800411	FR19770017803	19770610
GB1583248 A	19810121	GB19770023475	19770602
JP1605732 C3	19910531	JP19770068760	19770610
JP2013239 B4	19900403	JP19770068760	19770610
JP53016500 A2	19780215	JP19770068760	19770610
US4079525 A	19780321	US19760695069	19760611

Priority:

US19760695069 19760611 CA19770279597 19770601

Probable Assignee: SPARTANICS

Assignee(s): (std): SPARTANICS

Assignee(s): SPARTANICS LTD ; SPARTANICS LTD PALATINE ILL US ; SUPAATANITSUKUSU LTD ; WILLITS SAMUEL P ; LINTON JOHN D ; MOHAN WILLIAM L

Inventor(s): (std): LINTON JOHN DAVIES ; WILLITS SAMUEL PIERSON ; MOHAN WILLIAM LAURENCE ; LINTON J D ; WILLITS S P ; MOHAN W L ; LINTON JOHN D ; WILLITS SAMUEL P ; MOHAN WILLIAM L ; JIYON DEEBISU RINTON ; SAMIYUERU PIASON UIRITSUTSU ; UIRIAMU ROORENSU MOOHAN ; MOHAN W ; WILLITS S ; LINTON J

Inventor(s): MOHAN WILLIAM LAURENCE BARRINGTON ILL ; LINTON JOHN DAVIES ALGONQUIN ILL ; SAMUEL PIERSON WILLITS ; JOHN DAVIES LINTON ; WILLIAM LAURENCE MOHAN ; W L MOHAN ; J D LINTON ; S P WILLITS ; JON DEEBISU RINTON ; SAMYUERU PIASON UIRITSUTSU ; LAURENCE MOHAN WILLIAM ; PIERSON WILLITS SAMUEL ; DAVIES LINTON JOHN

Agent(s): MANTHA AND SEABY

11) Family number: 41884479 (US2008131848A)

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Title: TAP SENSOR FOR WEAPON SIMULATOR

Abstract: A weapon simulator assembly for monitoring correction of a malfunction of a simulated weapon having a detachably attached simulated magazine includes a central processor for generating the malfunction scenario. A weapon processor is supported in the simulated weapon in electrical communication with the central processor, with an electrical interface connecting the weapon processor with the simulated magazine detachably attached to said receiver. A sensor, such as a tap sensor or accelerometer, is in electrical communication with the weapon processor via said electrical interface, with the tap sensor or accelerometer registering a strike when a force is applied to the simulated magazine above a predetermined value.

Classifications:

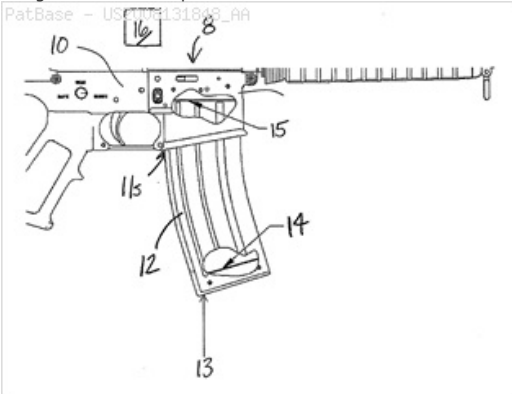
International (IPC 8-9): F41A33/00 (Advanced/Invention);

F41A33/00 (Core/Invention)

CPC: F41A9/61 F41A33/02

European: F41A33/02 F41A9/61

US: 42/1.02 434/16 434/24



Family:

Publication number	Publication date	Application number	Application date
US2008131848 AA	20080605	US20070748965	20070515
WO08108781 A2	20080912	WO2007US11579	20070515
WO08108781 A3	20081113	WO2007US11579	20070515

Priority:

US20060747290P 20060515 US20070748965 20070515

Probable Assignee: FATS INC

Assignee(s): (std): FATS INC ; GERSON DAVID ; ROGUSZ PAUL ; WILSON HENRY MARTIN ; WILSON MARTIN

Inventor(s): (std): ROGUSZ PAUL ; GERSON DAVID ; WILSON HENRY MARTIN ; WILSON MARTIN

Agent(s): SMITH GAMBRELL AND RUSSELL; HOLLAND CHRISTOPHER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 60818036 (US2017268845A)

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Title: ELECTRONIC SIMULATION DEVICE FOR WEAPON

Abstract: A device for simulation of the mechanical functions of a real weapon using electronic and mechanical solutions is described. The simulation device can be mounted on a real weapon.

Classifications:

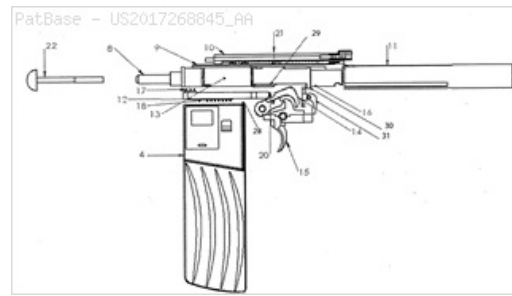
International (IPC 8-9): F41A33/00 F41A33/02 F41A33/04 F41A33/06 (Advanced/Invention)

CPC: F41A33/00 F41A33/02 F41A33/04 F41A33/06

US: 1/1 434/18

JP F-Term: 2C014

JP F-Index: F41A33/00

**Family:**

Publication number	Publication date	Application number	Application date
CN106415187 A	20170215	CN201580026945	20150513
CN106415187 B	20180713	CN201580026945	20150513
EP3143363 A1	20170322	EP20150731413	20150513
IN201627041611 A	20170915	IN201627041611	20161206
JP2017516062 T2	20170615	JP20170512626T	20150513
JP6671352 B2	20200325	JP20170512626T	20150513
KR20170012875 A	20170203	KR20167033359	20150513
NO20140615 A	20151116	NO20140000615	20140514
NO337460 B1	20160418	NO20140000615	20140514
SG11201609436Q A1	20161229	SG20161109436	20150513
US2017268845 AA	20170921	US20150310310	20150513
US10598459 BB	20200324	US20150310310	20150513
WO15174852 A1	20151119	WO2015NO50082	20150513

Priority:

NO20140000615 20140514 WO2015NO50082 20150513

Probable Assignee: EBLANKS AS

Assignee(s): (std): EBLANKS AS ; GREEN AMMO AS ; NIMTEC AS

Inventor(s): (std): ERIKSROD OLE JAKOB ; JAKOB ERIKSROED OLE

Inventor(s): ERIKSROED OLE JAKOB

Agent(s): REKDAL KRISTINE; ASAMURA PATENT OFFICE PC; MARSHALL GERSTEIN AND BORUN LLP; BRYN AARFLOT AS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 32065146 (US2007264616A)

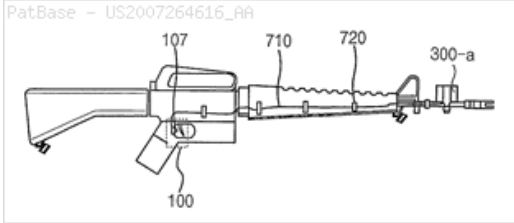
© PatBase

Title: STRUCTURE OF DETECTING DEVICE USED IN MILES SYSTEM AND GUN SIMULATOR

Abstract: Disclosed is a detecting device for hit determination by detecting a light shot from a transmitter. The detecting device according to the invention comprises a plurality of detecting elements. Each detecting element includes an optical detector cell of a planar shape for generating an electric signal when detecting a light, a protection case of a cylindrical shape for supporting the optical detector cell housed inside thereof, a set of lead wires, each of which being electrically connected to an anode electrode and a cathode electrode of the optical detector cell for supplying the electric signal generated from the optical detector cell to hit determination means, and a protection shield located on a front light detecting surface of the optical detector cell for protecting the optical detector cell from external environment and passing the light. The protection case of a cylindrical shape has an open front surface. The optical detector cell of a planar shape has a light detecting front surface adjacent to the open front surface of the protection case, and a rear surface supported by a packing material packed inside of the protection case. The set of lead wires is elongated from the rear surface of the optical detector cell and protected by the packing material.

Classifications:

International (IPC 8-9): F41A33/00 F41A33/02 F41J5/02 G01J1/44 (Advanced/Invention); F41A33/02 (Advanced/Non-invention); F41A33/00 F41J5/00 G01J1/44 (Core/Invention)
International (IPC 1-7): F41A33/02
CPC: F41G3/2655 F41J5/02 F41A33/02 A63F9/02 F41A33/04 F41A33/06
European: F41A33/02 F41J5/02
US: 250/206 434/16



Family:

Publication number	Publication date	Application number	Application date
KR100544101 B1	20060123	KR20030091035	20031215
KR100584928 B1	20060607	KR20040000750	20040106
KR200347839 Y1	20040417	KR20040000263U	20040106
KR20050059426 A	20050621	KR20030091035	20031215
KR20050072353 A	20050711	KR20040000750	20040106
US2007264616 AA	20071115	US20040582843	20041215
WO05061983 A1	20050707	WO2004KR03311	20041215

Priority:

KR20030091035 20031215 KR20040000263U 20040106 KR20040000750 20040106
WO2004KR03311 20041215

Probable Assignee: KOREAELECOM CO LTD

Assignee(s): (std): HANRIM SCIENCE AND TECHNOLOGY ; HANRIM ST ; NAMGUNG BALENTINO

Assignee(s): ESTEE SHARES HALLYM ; KOREAELECOM CO LTD

Inventor(s): (std): NAMGUNG BALENTINO

Agent(s): FARRELL LAW FIRM PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

14) Family number: 63295558 (US2016245610A)

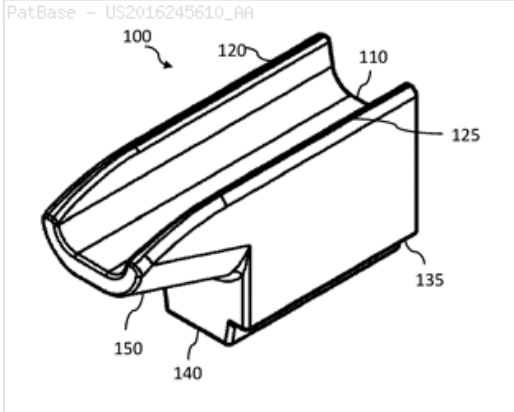
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Title: LOADED MAGAZINE SIMULATOR

Abstract: A loaded magazine simulator has a channel, a bottom feature; a top feature; and at least one lower edge. The channel is configured to allow a slide of a firearm to move without causing the loaded magazine simulator to be ejected from a firearm. In some embodiments, the loaded magazine simulator can be loaded into a traditional magazine. The weight, length, and/or height of the loaded magazine simulator are selected to simulate the weight, length and/or height of a live round. In some embodiments the lower edge prevents the loaded magazine simulator from rotating and/or ejecting from the firearm. In other or the same embodiments, the lower edge orients the loaded magazine simulator in a magazine. In some embodiments, multiple loaded magazine simulators can be stacked in a magazine. The loaded magazine simulator can be made of a variety of materials, including zinc.

Classifications:

International (IPC 8-9): F41A33/00 (Advanced/Invention)
CPC: F41A33/00 F41A9/65 F41A17/44
US: 1/1 42/49.01



Family:

Publication number	Publication date	Application number	Application date
US2016245610 AA	20160825	US20160050249	20160222

Priority:

US20150118680P 20150220US20160050249 20160222

Probable Assignee: SCHULZ DAVID ALAN

Assignee(s): (std): SCHULZ DAVID ALAN

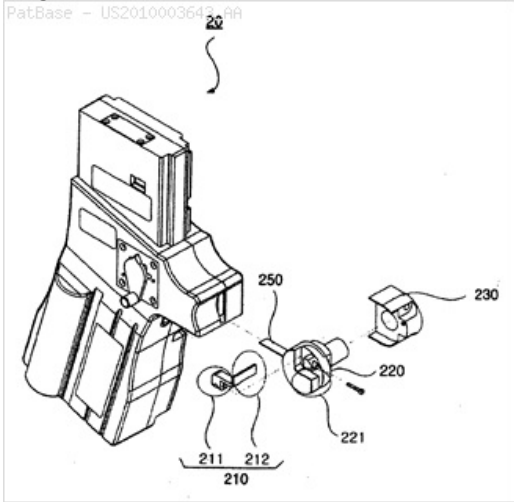
Inventor(s): (std): SCHULZ DAVID ALAN

15) Family number: 41870565 (US2010003643A)PatBase

Title: SIMULATED MAGAZINE AND GUN SIMULATOR USING THE SIMULATED MAGAZINE

Abstract: A simulated magazine capable of operating according to a movement of a trigger and a gun simulator provided with the simulated magazine are provided. The simulated magazine includes a burst signal generating unit and a magazine body. The burst signal generating unit a burster lever disposed closely on a rear surface of a trigger of a gun, a burst switch lever capable of operating according to a movement of the burster lever, and a tension spring for returning the moved burster lever to its original position. The magazine body includes a central controller for controlling whole operations, a burst switch disposed adjacent to the burst switch lever to be switched on according to a movement of the burst switch lever and transmit a burst signal to the central controller, and a firing signal output unit receiving a firing signal from the central controller and transmitting the firing signal to an external laser beam transmitter. Accordingly, it is possible to provide a simulated magazine capable of operating according to a movement of a trigger and having a stable structure for transmitting a burst signal to a central controller.

Classifications:
International (IPC 8-9): F41A33/00 (Advanced/Invention); F41A33/00 (Advanced/Non-invention); F41A33/00 (Core/Invention)
CPC: F41A9/61 F41A19/02 F41A33/02
European: F41A19/02 F41A33/02 F41A9/61
US: 434/19 434/19S 434/21 434/21P 446/473 446/473S



Family:

Publication number	Publication date	Application number	Application date
KR100816389 B1	20080325	KR20060123059	20061206
US2010003643 AA	20100107	US20070448016	20071205
WO08069560 A1	20080612	WO2007KR06266	20071205

Priority:
KR20060123059 20061206WO2007KR06266 20071205

Probable Assignee: KOREA ELECOM
Assignee(s): (std): HANRIM ST ; KOREA ELECOM ; KOREA ELECOM CO LTD ; SEO JUNG IL
Assignee(s): KOREA ELECOM CO
Inventor(s): (std): SEO JUNG IL
Agent(s): THE NATH LAW GROUP; NATH LAW GROUP; LEE JI YEON
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW