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(81) Designated States (*unless otherwise indicated, for every
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AO, AT, AU, AZ, BA, BB, BG, BH, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
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EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
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(54) Title: DRY FIRE PRACTICE TRAINING DEVICE

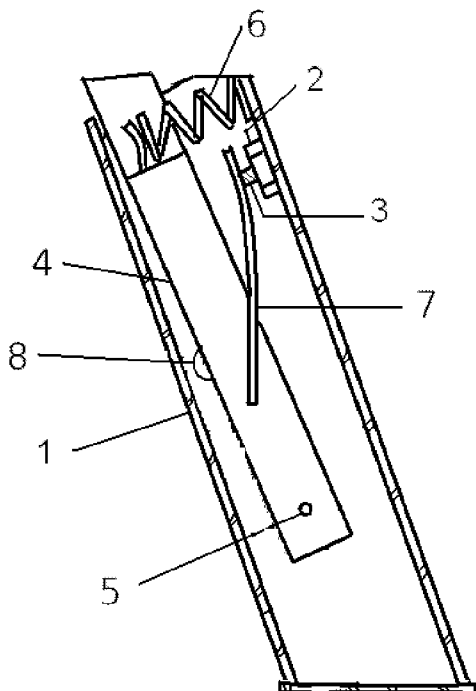


FIG 12

(57) Abstract: When a semi-automatic pistol is live-fired, its firing pin is automatically reset, and the pistol is ready to be fired again. The shooter's hands remain in the firing position, and just the trigger finger and trigger are employed. With dry fire practice, each time a shot is simulated, the shooter must remove a hand from the weapon and ratchet the slide to reset the firing pin, allowing the trigger to return to its unfired position. This invention, after being inserted into the weapon's empty magazine compartment, provides realistic live-fire muscle-memory training by duplicating the action of the trigger, the feel and the sound of the release of the firing pin, and the resetting of the trigger for additional trigger activations. It does not interact with the weapon's firing pin and does not require any alterations to the weapon.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/10264

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - F41A 33/00 (2014.01)

USPC - 434/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): F41A 33/00 (2014.01)

USPC: 434/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8): F41A 33/00 (2014.01)

USPC: 434/11,16,18; 446/401,405,473; 42/49.01,50,54,70.02 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (USPT,PGPB,USOC,JPAB,EPAB); PatBase; Google (Patents, Scholar, Web) Search Terms Used: dry fire magazine training simulation toy lever weapon gun rifle firearm pistol handgun trigger double detent catch reed adjust change compression spring set screw nylon lock nut channel

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,577,962 A (KOUNOE et al.) 26 November 1996 (26.11.1996), entire document, especially Fig 1; col 1, ln 23-33; col 1, ln 62 to col 2, ln 4; col 2, ln 22-25; col 3, ln 24-49; col 3, ln 54 to col 4; ln 29; col 4, ln 51-57	1, 3, 4 ----- 6 ----- 5, 7, 8
Y	US 3,864,092 A (RAVITZ) 04 February 1975 (04.02.1975), Fig 1; col 1, ln 54-58; col 2, ln 11-26	6 ----- 7, 8
A	US 3,340,641 A (RECKER) 12 September 1967 (12.09.1967), col 4, ln 49-54, ln 58-62	5
A	US 2010/0003643 A1 (SEO) 07 January 2010 (07.01.2010), entire document, especially para [0001], [0024], [0030], [0038], [0040]	1-8
A	US 4,521,195 A (MOBERG) 04 June 1985 (04.06.1985), entire document, especially Fig 1; col 1, ln 6-8; ln 24-43; col 1, ln 53 to col 2, ln 21	1-8
A	US 5,689,907 A (COOLEY) 25 November 1997 (25.11.1997), entire document, especially col 1, ln 35-48	1-8

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

08 May 2014 (08.05.2014)

Date of mailing of the international search report

02 JUN 2014

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/10264

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 2
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claim 2 does not set forth any positive recitations to further limit the claimed invention and thus does not meet the guidelines for the manner of claiming/how to indicate technical features that are set forth in PCT Article 6.

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.