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(54) Title: UNITARY CARTRIDGE FOR A CONDUCTED ELECTRICAL WEAPON

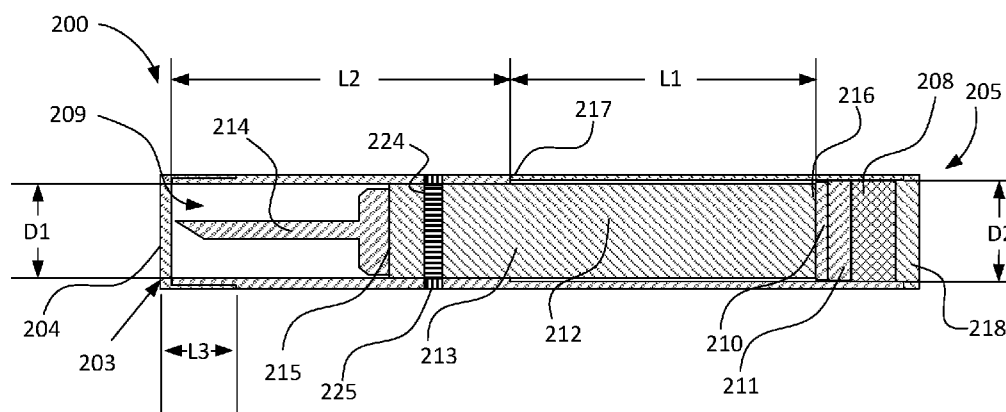


FIG. 4D

(57) Abstract: A unitary cartridge for a conducted electrical weapon (CEW) may include a cartridge body that stores an electrode, a piston, a propulsion module, and a propulsion module contact. To launch the electrode from the cartridge body, a signal may be sent from the CEW through a conductor disposed within the propulsion module. The signal may be configured to heat up the conductor and ignite a pyrotechnic material in the propulsion module to create a rapidly expanding gas. The rapidly expanding gas may move the piston to propel the electrode from the cartridge body and toward a target. A frangible cap may be disposed at one end of the cartridge body to retain the electrode in the cartridge body prior to launch.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2020/014482**A. CLASSIFICATION OF SUBJECT MATTER****F41H 13/00(2006.01)i**

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)

F41H 13/00; F41B 11/81; F41B 15/04; H05C 1/04

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: CWE, cartridge, electrode, piston, propulsion, wad and conductor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-1872709 B1 (INFOS TECHNOLOGY CO., LTD.) 02 July 2018 paragraphs [0119]-[0135] and figures 11-14	1-20
Y	RU 2648562 C1 (GUSEV SEMEN VALENTINOVICH et al.) 26 March 2018 page 9, line 26 - page 10, line 26 and figures 1-2	1-20
A	CN 108444337 A (BEIJING SICHUANG TIANGANG EQUIPMENT TECHNOLOGY CO., LTD.) 24 August 2018 paragraphs [0022]-[0028] and figures 1-5	1-20
A	US 2018-0283829 A1 (AXON ENTERPRISE, INC.) 04 October 2018 paragraphs [0012]-[0069] and figures 1-9	1-20
A	KR 10-1890759 B1 (DASAN) 22 August 2018 paragraphs [0021]-[0045] and figures 1-9	1-20



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		TW I647420 B	11/01/2019
		US 10731953 B2	04/08/2020
		WO 2018-182768 A1	04/10/2018
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