Formal Consultative Meeting of the States Parties to the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on Their Destruction

Distr.: General 6 September 2022

English only

2022 Meeting

Geneva, 26 August and 5-9 September 2022

Item 6 of the agenda

Respective outstanding questions by the Russian Federation to the United States and to Ukraine concerning the fulfilment of their respective obligations under the Convention in the context of the operation of biological laboratories in Ukraine

Questions for the United States regarding compliance with obligations under Article IV of the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction (BWC) in the context of the development of means of delivery of biological weapons

Submitted by the Russian Federation



Patents given by the U.S. Agency on patents and trademarks US 8,967,029 B1



United States Patent Calvert

(54) TOXIC MOSQUITO AERIAL RELEASE SYSTEM

(71) Applicant: TMARS Associates, Trustee for Toxic mosquito aerial release system CRT Trust, Manussus, VA (US)

(72) Inventor: S. Mill Culvert, Manassas, VA (US)

(73) Assignce: TMARS Associates, Trustee for Toxic mosquito aerial release system CRT Trust, Manassas, VA (US)

(*) Notice: Subject to any disclaimer, the term of this

(21) Appl. No.: 14/549,305

(22) Filed: Nov. 20, 2014

(51) Int. CL B64D 1/18 F41H 13/00 (2006.01) B64D 1/02 (2006.01)

A01K 67/033 A01K 5/00 B64C 39/02 (52) U.S. CL CPC F41H [3:00 (2013.01); B64D 1/02 (2013.01); A01K 67:033 (2013.01); A01K 5:00 (2013.01); B64C 39:024 (2013.01); B64C 2201/024

(2013.01); B64C 2201/128 (2013.01); B64C

USPC 897.1.1; 244/136; 2398; 239/171 (58) Field of Classification Search CPC F41H 13/00; F42B 12/56; B34D 1/02; B34D 1/08; B34D 1/12; 605D

(10) Patent No.: (45) Date of Patent: Mar. 3, 2015 2201/02096; B64C 2201/024; B64C 2201/128; B64C 2201/146; B64C 39/024; A01K 5/00; See application file for complete search history References Cited

U.S. PATENT DOCUMENTS

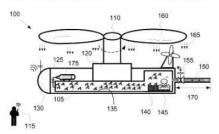
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Primary Examiner — Bret Hayes (74) Attorney, Agent, or Firm — Louis Ventre, Jr.

ABSTRACT

3 Claims, 1 Drawing Sheet

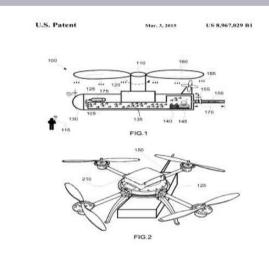




In accordance with the description, an unmanned aerial vehicle carries to a given area a container with an important quantity of mosquito vectors and releases them. When biting, the mosquitoes infect the attacked people with the causative agent of infectious diseases.

Governments seek after weapons, that can be use to deliver chemicals, viral and bacteriological substances for lethal and

The present invention is capable of delivering lethal and nonlethal toxins, including any agent that can be administrated and carried by a mosquito.



US 8,967,029 B1 TOXIC MOSQUITO AERIAL RELEASE SYSTEM

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effected by using an acrossed open, explosive, and direct food or water contamination. Aeroes open, over the aight to be the most effective means of wide-spread direct means because gest, stability of the oppid realer desicoling conditions scolold light, want speed, what direction, and atmosph shifty are known to after the effectiveness of a data

Senting to serve a size to extractional in a cancey service and a senting of the properties and Bady to insure symptomic and Bady to insure symptomic and entire control of the control of provide released to scope the Cridd War.

There is a need for a cartridge that is quickly field-finished

Technical Problem

US 8,794,155 B1

HOLLOW POINT PAYLOAD CAPSULES

TECHNICAL FIELD

of a variety of capsules containing an incapacitating, fatal or marking agent for delivery to a target.

BACKGROUND ARE

ror and many and law enforce-pecific situations that require with, and there may only be a short reconds or minutes within which to have

to deal with the situation. The Hollow Point

apsule gives the soldier or police officer the ability

hand. He can instantly insert the needed capsule to deal with

If the Special Forces need intelligence from a terrorist and

do not want him dead, they can insert a sleeping agent and

even the smallest round such as a .22, can be a fatal one shot

one kill, so matter where the bullet hits. Special Forces can also decide to insert a Hollow Point Payload Capsule with a sickness disease agent so the terrorist goes back to the hide-

away with all the other terrorists and makes the whole lot of

posson, nerve sixuses, steeping, intection, disease, radioac-tive, drugs, vascines, identity markers, radiofrequency iden-tification chips, etc.

The capsules may be semi-rigid or may be pliable to mold and fit into different openings in the bullet. There can be a variety of different capsule sizes. There may be one size that

SUMMARY OF INVENTION

A system includes an incomplete cartridge for a firearm and a field-selectable capsule for the cartridge to complete the mad a field-selectable capsule for the cartridge to complete the rate of the cartridge to complete cartridge in the capsule are performed in the capsule are performed by emonstly adhered on a strip with capsule are preferably removably adhered on a strip with capsule potentially serving a 50 different purpose. The incomplete cartridge includes a bullet that has no opening at the paylo and n. The opening in struc-

tured to receive and retain one of the capsules when the payload end is prossed against the capsule on the strip. The capsule is made of a fraugable material that releases the prod-uct after impact of the bullet once fired from the weapon. The

capsule may be formed with a snap-in ridge extending from its exterior wall. The ridge snaps into a complementary recess in the bullet opening. Alternatively, the capsule may be coated with a contact adhesive so that it sticks to the bullet wall 65

defining the opening. A peel-off covering atop the strip shields the contact adhesive on the plurality of capsules.

to suit a variety of factical environments and fluid objectives.

In the field of ammunition and explosives, an incomplete faced by Special Forces and tactical police teams. While cartridge for a firearm that can be loaded in the field with one cartridges exist to increase the lethality of a hit, none permit nges to the cartridge in the field to accomplish sh

The solution is an incomplete cartridge for a firearm that is completed in the field with a capsule selected from a variety of capsules serving potentially diverse goals to meet poten-tially shifting field conditions faced by Special Forces and tactical police teams.

Advantageous Effects of Invention

The Hollow Point Payload Capsule could make any sniper shoot him with a minor flesh wound. When the Hollow Point Payload Capsule goes into a body, the solution inside will go 2 hit a lethal kill even if the terrorist was hit with a flesh wound Different strips of capsules would be labeled and color coded so the soldier could instantly see and utilize the specific all over the wound damage and be absorbed into the blood stream. The terrorist would then fall asleep and could easily be picked up for intelligence. With a deadly poison the Hollow Point Payload Capsule, payload he needs.

With the Hollow Point Payload Capsule, the soldier or law

enforcement officer would be able to instantly change his

ounds to a job-specific round to accomplish his objective. The Hollow Point Payload Capsule will help to save the tree of our brave law enforcement personnel and soldiers and help them to accomplish their missions so that America can remain the land of the free.

BRIEF DESCRIPTION OF DRAWINGS

them very sick. There is no limit to the type of solution 35 particles that can be put inside the Hollow Point Paylond Capsule. Some of the common agents maybe: tranquilizer, poison, nerve sickness, sleeping, infection, disease, radioac-The drawings illustrate preferred embodiments of the hollow point payload capsules according to the disclosure. The reference numbers in the drawings are used consistently throughout. New reference numbers in FiG. 2 are given the 200 series numbers. Similarly, new reference numbers in each

conserts induses, similarly, new referred manners in each succeeding drawing are given a corresponding series number beginning with the figure number.

FIG. I is an exploded elevation view of the system showing a sectional view of an incomplete curtridge and a side view of a capsule in a first embodiment. fits into any common size pistol buffet. There could be a tiny size made to fit into small rounds such as .22 caliber. There may be a size made to fit into riffle bullets for snipers.

FIG. 2 is an exploded elevation view of an alternative embodiment of the system showing a sectional view of a second bullet and a side view of a second capsule in a second

FIG. 3 is a side elevation view of a third capsule with an

FIG. 5 is a size elevation view of the capsule showing snap-in ridge and the product inside. FIG. 5 is a side elevation view of capsules adhered to a

strip.

FIG. 6 is a top view of the capsules adhered to the strip. FIG. 7 is a side elevation view of the capsules adhered to the strip and a plastic cover atop the capsules.

FIG. 8 is a sectional elevation view of a loaded and com-

DESCRIPTION OF EMBODIMENTS

In the following description, reference is made to the accompanying drawings, which form a part hereof and which

Patents given by the U.S. Agency on patents and trademarks US 8,794,155 B1

(12) United States Patent Calvert

(54) BOLLOW POINT PAYLOAD CAPSULES (71) Applicant: HP Associates, Trustee for HPCC CRT Trust, Manassas, VA (US)

(72) Inventor: S. Mill Calvert, Manussus, VA (US) (73) Assignee: HP Associates, Manassas, VA (US),

(*) Notice: Subject to any disclaimer, the term of this

U.S.C. 154(b) by 0 days. (21) Appl. No.: 14/051,821

(22) Filed: Oct. 11, 2013

(51) Int. Cl. F42B 5/02

(52) U.S. Cl. 102/512; 102/502; 102/439; 102/513

(58) Field of Classification Search USPC 102/512, 502, 438, 439, 513 See application file for complete search history.

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(45) Date of Patent:

(10) Patent No.: US 8,794,155 B1 Aug. 5, 2014

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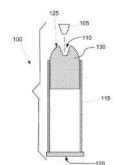
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mary Examiner - Michael David

(74) Attorney, Agent, or Flras - Louis Ventre, Jr.

ABSTRACT

4 Claims, 2 Drawing Sheets





Even if the gunshot wound is not fatal, the person so injured may die as a result of infection. In the latter case, the infected person themselves becomes a source of infection.

The point of this invention is that a capsule containing a poison or an infectious agent is inserted into the cartridge.

Patents, given by the U.S. Patent and Trademark Office US 9,052,175 B1



12)	United	States	Patent
	Calvert		

(10) Patent No.: US 9,052,175 B1

(45) Date of Patent: Jun. 9, 2015

(54) SABOTAGE CARTRIDGE WITH TOXIC

(71) Applicant: SCTA Associates, Trustee for Sabotage Cartridge with Toxic Agent CRT Trust, Manassas, VA (US)

(72) Inventor: S. Mill Calvert, Manassas, VA (US) (73) Assignce: SCTA Associates, Trustee for Subotage Cartridge with Toxic Agent CRT Trust, Manassas, VA (US)

(*) Notice: Subject to any disclaimer, the term of this potent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 14/513,996

(22) Filed: Oct. 14, 2014

(51) Int. CL F42B 12/46 F42B 12/36 (52) U.S. CL F42B 12/46 (2013:01); F42B 12/36

(58) Field of Classification Search See application file for complete search history. References Cited

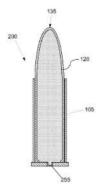
U.S. PATENT DOCUMENTS

Primary Examiner — Stephen M Johnson (74) Attorney, Agent, or Firm — Louis Ventre, Jr.

ABSTRACT

A capsule is configured to have the nutward appearance of a A capasale is configured to have the autoward appearance of a carriagle for informan and the capaties is designed to release a toxic agent when struck by the fring plot of the ferorm. The capatie includes a cosing, a blutk happed continuer, a texti-comparing the control of the control of the capaties of the capaties and the control of the capaties of the capaties of the control of the ferorm. A built of chapped container holds the chamber of the frienam, a built of chapped container holds the scale agent carticipe for resource. The contriner fils within the cas-ing to give an extraord parameter of an ordinary builter in a regular carticipe for that frienam. The cap gives the voteword appearance of a primer cup, Once his by the firing pin of the ferorem, the cup beaks, releasing the toxic agent. A primer and remote radio-frequency activator may also be used to refuse the toxic agent.

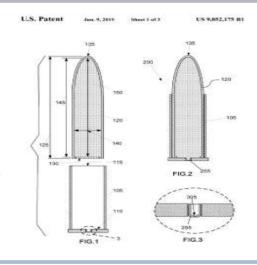
7 Claims, 3 Drawing Sheets

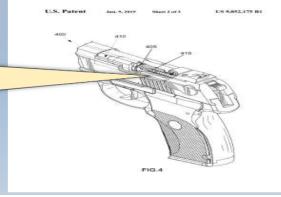




The device is considered to be of interest for the armed forces in general and special operations forces in particular.

It is envisaged to produce cartridges which look indistinguishable from conventional ammunition, but in fact are filled with a poisonous substance. When the firing pin of the weapon strikes the capsule, the cartridge breaks and releases a poisonous substance that affects the shooter.





U.S. national legislation related to biological weapons

Patriot Act



Other short tit Uniting and Strengthening America by Providing Appropriate Tools to Restrict, Intercept and Obstruct Terrorism Act of 2001

Long title

An Act to deter and punish terrorist acts in the United States and across the globe, to enhance law enforcement investigatory tools, and for other purposes.

Acronyms

(colloquial)

Nicknames Patriot Act

Enacted by the 107th United States Congress

USA PATRIOT Act

USA Freedom Act



Other short titles

Uniting and Strengthening America by Fulfilling Rights and Ensuring Effective Discipline Over Monitoring Act of 2015

Long title

An Act To reform the authorities of the Federal Government to require the production of certain business records, conduct electronic surveillance, use pen registers and trap and trace devices, and use other forms of information gathering for foreign intelligence, counterterrorism, and criminal purposes, and for other purposes.

Acronyms (colloquial) USA FREEDOM Act

Minter

Nicknames Freedom Act

Enacted by the 114th United States Congress

Unipolar interpretation of international agreements

Investing subordinate organisations with attributive functions

Priority of the national legislation over the international one

Ratification of international agreements with numerous reserves

PUBLIC LAW 107-56-OCT, 26, 2001

UNITING AND STRENGTHENING AMERICA BY PROVIDING APPROPRIATE TOOLS REQUIRED TO INTERCEPT AND OBSTRUCT TERRORISM (USA PATRIOT ACT) ACT OF 2001

SEC. 817. EXPANSION OF THE BIOLOGICAL WEAPONS STATUTE.

Chapter 10 of title 18, United States Code, is amended— (1) in section 175—

(A) in subsection (b)-

- (i) by striking "does not include" and inserting "includes":
- (ii) by inserting "other than" after "system for";
- (iii) by inserting "bona fide research" after "protective";
- (B) by redesignating subsection (b) as subsection (c);and

(C) by inserting after subsection (a) the following:

- "(b) ADDITIONAL OFFENSE.—Whoever knowingly possesses any biological agent, toxin, or delivery system of a type or in a quantity that, under the circumstances, is not reasonably justified by a prophylactic, protective, bona fide research, or other peaceful purpose, shall be fined under this title, imprisoned not more than 10 years, or both. In this subsection, the terms 'biological agent' and 'toxin' do not encompass any biological agent or toxin that is in its naturally occurring environment, if the biological agent or toxin has not been cultivated, collected, or otherwise extracted from its natural source.":
 - (2) by inserting after section 175a the following:
 - "(4) The term 'lawfully admitted for permanent residence' has the same meaning as in section 101(a)(20) of the Immigration and Nationality Act (8 U.S.C. 1101(a)(20)).
- "(c) Whoever knowingly violates this section shall be fined as provided in this title, imprisoned not more than 10 years, or both, but the prohibition contained in this section shall not apply with respect to any duly authorized United States governmental activity."; and
 - (3) in the chapter analysis, by inserting after the item relating to section 175a the following:

"175b. Possession by restricted persons.".

U.S. reaction to the memo of the Ministry of Foreign Affairs of Russia

Aide Memoire from the Russian Federation "Questions to the United States regarding its compliance with the BWC and CWC" Response from the United States

On October 12, 2018, the Russian Embassy in Washington provided to the U.S. Department of State an Aide Memoire on the above subject. In response to the points outlined in the Russian Aided Memoire, and keeping in mind our commitment to consult and cooperate in addressing issues which may arise in relation to the these Conventions, this document provides the reply of the United States. In short, the United States fully complies with its obligations under both the Biological Weapons Convention (BWC) and the Chemical Weapons Convention (CWC).

The Russian Aide Memoire characterizes documentary materials identified and published by Georgian national Igor Giorgadze as being "about a questionable activity of so-called Lugar Center for Public Health Research" and asserts that the US Army Medical Research Directorate-Georgia "carries out double purpose research activities in the field of highly dangerous infectious diseases." This follows reposted allegations by Russian officials to the effect that the Lugar Center is carrying out work prohibited by the BWC. The United States reiterates its unqualified statement that we are not carrying out activities at the Lugar Center, or anywhere else, that are prohibited by the BWC. Furthermore, none of the permitted activities undertaken or funded by the U.S. government are conceived or conducted with a view to their potential application for prohibited purposes. We would like to provide the following additional information to help the Russian Federation understand the peaceful and legitimate nature of the activities occurring at the Center.

The Lugar Center is owned and operated by the Georgian National Center for Disease Control and Public Health. The Center's mission is to promote public and animal health through infectious disease detection, epidemiological monitoring and analysis, and research for the benefit of Georgia, the South Caucasus region, and the global community. The Lugar Center is staffed by the Georgian Ministries of Health, Agriculture, and Education and Sciences, as well as guest scientists from the United States, other countries, and international organizations, including the World Health Organization and the World Organization for Animal Health. The director of



The development and production of a biological or chemical weapon are prohibited under the national law, but the decision to issue a patent does not violate the U.S. obligations under the BTWC and the CWC.

The United States takes seriously its obligations under the BWC and CWC and has a comprehensive domostic legal regime to implement its obligations under Article IV of the BWC and Article VII of the CWC. (See, for BWC, U.S. Code, Title 18, Part I, Chapter 10, Section 175; for CWC, U.S. Code, Title 18, Part I, Chapter 11(B), Section 229). These laws make clear that, inter alia, the development and production of a biological or chemical weapon is prohibited under U.S. law, and any violation of those laws is punishable by penalties ranging from fines to imprisonment. The laws are vigorously enforced by the Federal Bureau of Investigation and other law enforcement agencies, and violations are prosecuted by the Department of Justice. Therefore, while an individual may be able to hold a patent for an invention of the type discussed here as a domestic legal matter, it is clear that production of such an invention for use as a weapon would violate the relevant laws implementing the United States' obligations under the BWC or CWC and be punishable by fines and/or imprisonment. Furthermore, the decision to issue such a patent does not violate U.S. obligations under the BWC or CWC.

However, the United States appreciates the Russian Federation's raising this issue, as it appears that a number of States Parties to these Conventions, including Russia, issue patents or publish patent applications for devices designed for delivery of toxins, biological or chemical agents, or insects that might raise similar questions. A preliminary and non-exhaustive search identified.

tmong others, patents granted by the Russian Federation (e.g., RU2189001 C2, Bullet-cavity tolding poisonous substance; RU2085742 C1, Bullet with chamber/cavity capable of delivering chemical payload; RU2585124 C2, Weapon with shell containing a chemical payload). In addition, the preliminary search identified patent applications published by China (e.g., CN103322866, Bullet-explosive core with biochemical agent storage chamber) and the Russian lederation (e.g., RU2014143420, Biological active bullets, systems, and methods). In light of his practice, it appears that there may be value in sharing best practices for identifying and landling patent applications for inventions that may raise security concerns.