



US008967029B1

(12) **United States Patent**  
Calvert

(10) **Patent No.:** US 8,967,029 B1  
(45) **Date of Patent:** Mar. 3, 2015

(54) **TOXIC MOSQUITO AERIAL RELEASE SYSTEM**

2201/02096; B64C 2201/024; B64C 2201/128;  
B64C 2201/146; B64C 39/024; A01K 5/00;  
A01K 67/033

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

USPC ..... 89/1.11, 1.1; 244/136; 119/650, 651;  
239/8, 171, 172  
See application file for complete search history.

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

(56) **References Cited**

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

U.S. PATENT DOCUMENTS

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

2,098,887	A	*	11/1937	Satterlee	.....	244/136
2,730,402	A	*	1/1956	Whiting et al.	.....	239/341
4,260,108	A	*	4/1981	Maedgen, Jr.	.....	239/171
4,585,112	A	*	4/1986	Peeling et al.	.....	194/293
5,148,989	A	*	9/1992	Skinner	.....	239/171
5,785,245	A	*	7/1998	Teddiers et al.	.....	239/9
5,794,847	A	*	8/1998	Stockler	.....	239/8
6,651,377	B1	*	11/2003	Plesants	.....	43/55
6,799,740	B2		10/2004	Heller et al.		
7,413,145	B2		8/2008	Hale et al.		
2014/0246545	A1	*	9/2014	Markov	.....	244/190

\* cited by examiner

Primary Examiner — Bret Hayes

(74) Attorney, Agent, or Firm — Louis Ventre, Jr.

(57) **ABSTRACT**

A device for the aerial release of mosquitoes includes an unmanned aerial vehicle operable by remote control. It carries a container holding a central processing unit and a mosquito breeding bin, which is a self-contained volume housing mosquitoes and a mosquito food having a toxin suitable to be transmitted by mosquito bite after the mosquito consumes the mosquito food. A release tube is connected to the mosquito breeding bin and sized to release mosquitoes from the mosquito breeding bin. A valve is connected to the release tube and is operable by remote control so that when opened, the mosquitoes have an open pathway out of the container through the release tube.

3 Claims, 1 Drawing Sheet

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

(22) Filed: Nov. 20, 2014

(51) **Int. Cl.**

B64D 1/18 (2006.01)  
F41H 13/00 (2006.01)  
B64D 1/02 (2006.01)  
A01K 67/033 (2006.01)  
A01K 5/00 (2006.01)  
B64C 39/02 (2006.01)

(52) **U.S. Cl.**

CPC F41H 13/00 (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  
2201/146 (2013.01)  
USPC ..... 89/1.11; 244/136; 239/8; 239/171

(58) **Field of Classification Search**

CPC ..... F41H 13/00; F42B 12/56; B34D 1/02;  
B34D 1/08; B34D 1/10; B34D 1/12; G05D

