

Search history

Search (mosquito or insect) and (eliminate or kill) (Results 51782)

1:

Search 1 and (FLOAT OR DRIFT OR HOVER) (Results 3897)

2:

Search 2 and solar (Results 278)

3:

Search 3 and (fluid or liquid) (Results 257)

4:

Search 4 and vibration (Results 101)

5:

Search 5 and egg (Results 16)

6:

Search 1 and trap (Results 6507)

7:

Search 7 and (FLOAT OR DRIFT OR HOVER) (Results 416)

8:

Search 8 and solar (Results 77)

9:

Search 10: [SP]: what is claimed is:1. an apparatus for the control of biting insects comprising:a fluid-filled flexible walled containeran exciter for imparting a traveling wave to the fluid-filled flexible walled container to simulate movement of a prey animal's skin to attract insects to the apparatus anda heater for heating the fluid.2. an apparatus as defined in claim 1, wherein the fluid is a gel.3. an apparatus as defined in claim 1, wherein the fluid is a semi-solid.4. an apparatus for the control of biting insects comprising:a vibration wave generatora vibration wave transmitting member coupled to the vibration wave generator, the vibration wave transmitting member comprising a flexible walled container filled with one of a liquid and a semi-solid gel which is vibrated at a frequency and amplitude to attract insects to the apparatus anda heater for heating the container and/or the liquid or semi-solid gel.5. an apparatus as defined in claim 4, wherein the container is suspended from a support member.6. an apparatus as defined in claim 4, wherein the vibration wave generator comprises one of a transducer and a mechanical driver.7. an apparatus as defined in claim 4, wherein the vibration wave generator generates bursts of oscillations at a frequency of approximately 5 to 50 hz and a burst rate of approximately 1 hz.8. an apparatus as defined in claim 4, wherein the amplitude of vibration is generally less than 10 microns.9. an apparatus as defined in claim 4, further including a thermostat coupled to the heater to maintain a desired temperature.10. an apparatus for the control of biting insects comprising:a vibration wave generatora vibration wave transmitting member coupled to the vibration wave generator, the vibration wave transmitting member comprising a flexible walled container filled with one of a liquid and a semi-solid gel which is vibrated at a frequency and amplitude to attract insects to the apparatus, wherein the vibration wave transmitting member includes a pattern forming cover therearound to simulate spatial features and discontinuities of a prey animal's skin, wherein the cover includes one of foil strips and wires thereon. (Results 0)

Search 11: [SP]: insect control apparatus and method a method and apparatus for attracting insects, especially black flies, sand flies and mosquitoes, in which the physical effects associated with the skin areas of prey-animals are simulated. basic elements of a first embodiment of the apparatus include warmed elastic-walled holders of pulsed fluid which may be in the form of elastic tubing through which warm fluid flows in pulses arranged to produce various physical effects. power for fluid heating and pulsing action may be provided by solar electrical, mechanical, nuclear, chemical or other source. basic elements of a second embodiment of the apparatus include a weak spring suspended from a support and coupled to a vibration generator. the spring includes a deformable skin-like membrane therearound. vibration is imparted to the spring and transmitted to the membrane to produce physical effects associated with movement of a skin surface of a prey animal. a heater may also be provided to heat the skin-like surface. a still further embodiment includes an exciter and a traveling wave transmitting member. the exciter is moved relative to the traveling wave transmitting member to impart a traveling wave therein to attract insects to the apparatus. killing of insects or collection of live or dead insects may be accomplished by trapping or execution electrically, mechanically, or chemically. in a preferred embodiment, the wave transmitting member and collector/killer element are combined into an integral unit. this unit may be removed and replaced as necessary. (Results 130)

Search 11 and egg (Results 7)

12:

Title: Method of controlling pests and associated apparatus

Abstract: A method and apparatus for controlling ants and other pests are provided. A micromachine has a battery and a remotely actuatable electrical switch operatively associated therewith. The micromachine has at least a portion thereof covered by an ant attractant such as food or bait, for example. The micromachine is of such size and weight as to be readily transportable by a fire ant or carpenter ant or other pest. In one embodiment, a resistance heating element is energized by the battery when the switch is closed thereby causing communication between a recess containing a pheromone or fungus or other ant controllant substance and the exterior of the micromachine. A thermally deformable bimetallic element may be employed for this purpose. Alternatively, a plastic film, which will degrade under the influence of heat, may be employed. In an alternate embodiment, a radio frequency transmitter will emit a signal to assist with location of the ant or pest nests and thereby permit action to be taken to control the ants. Vibration of the micromachine is preferably effected at intermittent periods.

Classifications:

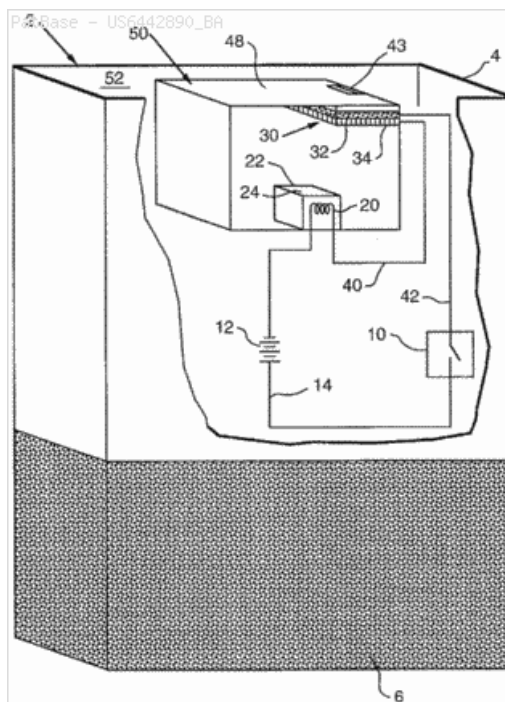
International (IPC 8-9): A01M1/00 A01M1/02 A01M1/20 A01M1/22 A01M19/00 (Advanced/Invention)

International (IPC 1-7): A01M1/20 A01M1/22

CPC: A01M1/00 A01M1/02 A01M1/026 A01M1/2011 A01M1/2016 A01M1/22 A01M19/00 A01M2200/011 A01M2200/012

European: A01M1/00 A01M1/02 A01M1/02A A01M1/02E A01M1/20B A01M1/20B1 A01M1/20B2 A01M1/22 A01M19/00 A01M31/00A K01M200/011 K01M200/012 K01M201/01 K01M201/02

US: 43/131 43/132.1



Family:

Publication number	Publication date	Application number	Application date
US6442890 BA	20020903	US20000703359	20001031
US6581324 BA	20030624	US20020118768	20020409

Priority:

US20000703359 20001031

US20020118768 20020409

Probable Assignee:

CREEGER SAMUEL M

Assignee(s):

CREEGER SAMUEL M ; FAKIRO URI

Inventor(s): (std):

CREEGER SAMUEL M ; FAKIRO URI

Title: SYSTEM FOR TRAPPING FLYING INSECTS AND A METHOD FOR MAKING THE SAME

Abstract: A flying insect trapping device configured to be used with a fuel supply containing combustible fuel. The device may include a supporting frame; an insect trap chamber carried on the supporting frame; and a combustion device which may also be carried on the supporting frame. The combustion device comprises an inlet port for connection with the fuel supply, an exhaust port, and a combustion chamber communicating the inlet port with the exhaust port. The inlet port enables the fuel from the fuel supply to flow into the combustion chamber for continuous combustion therein to create an exhaust gas within the combustion chamber. The combustion device further includes a catalyst element disposed within the combustion chamber. The catalyst element has a catalyst body with a plurality of essentially linear elongated conduits for enabling the exhaust gas created in the combustion chamber to flow therethrough towards the exhaust port. The catalyst body includes a catalytically active material that, during operation, converts carbon monoxide in the exhaust gas to carbon dioxide as the exhaust gas flows through the elongated conduits. An insect inlet is communicated with the insect trap chamber to enable flying insects to enter the trap chamber through the insect inlet. A vacuum device communicated to the insect inlet is constructed and arranged to draw insects attracted to the exhaust outlet through the insect inlet and into the insect trap chamber.

Classifications:

International (IPC 8-9): A01M1/02 A01M1/06 A01M5/00 A01M5/04 F01N3/28 F23C99/00 F23D21/00 F23D99/00 (Advanced/Invention); A01M1/02 A01M1/06 (Advanced/Non-invention)

International (IPC 1-7): A01M1/00 A01M1/02 A01M1/06 A01M1/08 A01M5/00 A01M5/04 A01M5/08 F01N3/28 F23C99/00 F23D21/00

CPC: F23C13/00 F23D91/02 F23C99/00 A01M1/06 A01M5/00 A01M1/02 A01M1/023 A01M2200/012 A01M1/106 Y10S43/00

European: A01M1/02 A01M1/02B A01M1/02C A01M1/06 A01M5/00 F23C13/00 F23C99/00 F23D99/00B K01M200/012 K01M201/02

US: 43/107 43/139 43/139P 431/390

PatBase - US2003084604_AA

Patent Application Publication May 8, 2003 Sheet 1 of 22 US 2003/0084604 A1

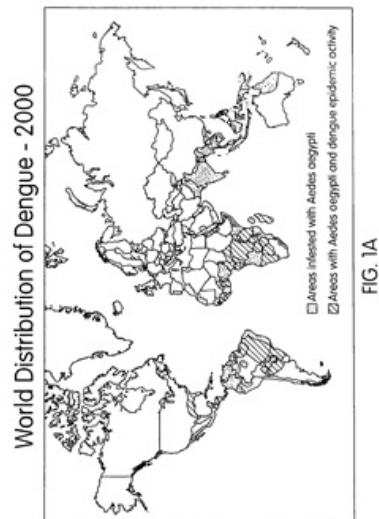


FIG. 1A

Family:

Publication number	Publication date	Application number	Application date
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AU2002356537 BB	20080814	AU20020356537	20021003
AU2008246208 AA	20081204	AU20080246208	20081114
AU2008246208 BB	20111117	AU20080246208	20081114
BRPI0213059 A	20050830	BR2002PI13059	20021003
BRPI0213059 B1	20120626	BR2002PI13059	20021003
CA2460876 AA	20040318	CA20022460876	20021003
CA2460876 C	20090825	CA20022460876	20021003
CN1299570 C	20070214	CN20028019571	20021003
CN1564656 A	20050112	CN20028019571	20021003
DE60211538 D1	20060622	DE20026011538	20021003
DE60211538 T2	20061116	DE20026011538T	20021003
DE60228339 D1	20080925	DE20026028339	20021003
DK1432304 T3	20060918	DK20020800460T	20021003
EP1432304 A2	20040630	EP20020800460	20021003
EP1432304 B1	20060517	EP20020800460	20021003
EP1537780 A1	20050608	EP20050003821	20021003
EP1537780 B1	20080813	EP20050003821	20021003
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IN02431CN2008 A	20090306	IN2008CN02431	20080515
IN228997 B	20090320	IN2004CN00686	20040402
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KR20090125853 A	20091207	KR20097022876	20021003
MXPA04003053 A1	20050620	MX2004PA03053	20021003

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US6840005 BB	20050111	US20020264260	20021004
US6892492 BB	20050517	US20040859160	20040603
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WO03028448 A3	20031030	WO2002US31550	20021003

Priority:

US20010326722P 20011004 AU20020356537 20021003 EP20020800460 20021003
WO2002US31550 20021003 US20020264260 20021004 WO2002US31550 20040402
US20040859160 20040603 AU20080246208 20081114

Probable Assignee: WOODSTREAM CORP

Assignee(s): (std): AMERICAN BIOPHYSICS CORPATION ; DURAND EMMA A ; PALOMBO MICHAEL J ; WOODSTREAM CORP ; AMERICAN BIOPHYSICS CORP

Assignee(s): RAM OPPORTUNITY FUND I LLC ; AMERICAN BIOPHYSICS CORP NORTH KINGSTOWN ; ALLIED CAPITAL CORP ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP ; CALIFORNIA PLASTIC PRODUCTS INC ; FI SHOCK INC ; PERKY PET PRODUCTS INC ; SENORET CHEMICAL CO ; ARES CAPITAL COLLATERAL AGENT AS CORP ; WOODSTREAM SUCCESSOR TO AMERICAN BIOPHYSICS CORP CORP ; FLEET CAPITAL CORP ; RAM OPPORTUNITY FUND I ; SILICON VALLEY BANK ; ANTARES CAPITAL AGENT AS CORP ; ANTARES CAPITAL AGENT CORP AS ; ANTARES CAPITAL CORP

Inventor(s): (std): DURAND A ; DURAND EMMA A ; MICHAEL J PALOMBO ; PALOMBO J ; PALOMBO MICHAEL J ; PALOMBO MICHAEL J DURAND EMMA

Inventor(s): PALOMBO MICHAEL J DURAND EMMA A ; PALOMBO MICHAEL ; EMMA A DURAND

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; C BRIAN BARLOW AND ASSOCIATES; RIDOUT AND MAYBEE LLP; LAIGHT MARTIN HARVEY ET AL; PILLSBURY WINTHROP 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 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 VC VN YU ZA ZM ZW

Title: SYSTEM FOR TRAPPING FLYING INSECTS WITH ATTRACTANT LURES

Abstract: The present application discloses a system for trapping flying insects, utilizing carbon dioxide in conjunction with one or more biochemical lures, visual lures or both. Preferably, a biochemical lure such as lactic acid, a salt of lactic acid, or combinations thereof, are employed in particular geometric shapes contained in specifically designed housing to ensure an effective release rate over extended periods of time.

Classifications:

International (IPC 8-9): A01M A01M1/02 A01M1/06 A01M1/08 A01M1/10 A01M1/20 A01M31/06 A01M5/00 A01M7/00 A01N A01N1/06 A01N25/00 A01N25/04 A01N25/08 A01N25/10 A01N37/00 A01N37/02 A01N37/36 A01N59/00 A01N59/04 A01P

A01P19/00 (Advanced/Invention);
A01M1/02 (Advanced/Non-invention);
A01M1/00 A01M1/02 A01N37/36 A01N59/00 A01P19/00 (Core/Invention);
A01M A01N A01P (Subclass/Invention)

International (IPC 1-7): A01M1/02 A01M1/06 A01M1/14 A01M1/20 A01N25/00 A01N25/04 A01N37/02 A01N37/36

CPC: Y10S514/944 A01M1/023 A01M1/06 A01M1/08 A01M1/2016 A01M2200/012 A01N37/36 A01M1/02

European: A01M1/02 A01M1/02B A01M1/02C A01M1/06 A01M1/08 A01M1/20B A01M1/20B2 A01M1/20C A01M7/00D4

A01N37/36 K01M200/012 K01M201/02

US: 424/405 424/405P 424/409 424/410 424/410P 424/411 424/414 424/484 424/84 43/107 43/107S 43/139 43/2 43/2P 514/557 514/557S 514/772 514/944

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: WOODSTREAM CORP

Assignee(s): (std): DURAND EMMA A ; CAO MIAOYONG ; CAO MIAO YONG ; DUNNE RICHARD B ; AMERICAN BIOPHYSICS CORP ; AMERICAN BIOPHYSICS CORPATION ; LIU CUIXIA ; WOODSTREAM CORPORATON ; WOODSTREAM CORP

Assignee(s): PERKY PET PRODUCTS INC ; SENORET CHEMICAL CO ; WOODSTREAM SUCCESSOR TO AMERICAN BIOPHYSICS CORP CORP ; ALLIED CAPITAL CORP ; RAM OPPORTUNITY FUND I LLC ; SAVAGE JONATHAN N ESQ ; RAM OPPORTUNITY FUND I ; ANTARES CAPITAL ADMINISTRATIVE AGENT AS CORP ; ANTARES CAPITAL ADMINISTRATIVE AGENT CORP AS ; ANTARES CAPITAL AGENT AS CORP ; ANTARES CAPITAL AGENT CORP AS ; FLEET CAPITAL CORP ; ANTARES CAPITAL CORP ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT C AS ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT CORP AS ; CAO MIAOYANG ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS CORP ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP ; CALIFORNIA PLASTIC PRODUCTS INC ; FI SHOCK INC ; ARES CAPITAL COLLATERAL AGENT AS CORP

Inventor(s): (std): DURAND EMMA A CAO MIAOYONG LIU ; EMMAN A DURAND ; MIAO YONG CAO ; RICHARD B DUNNE ; MIAOYONG CAO ; MIAOYANG CAO ; LIU CUIXIA ; EMMA A DURAND ; DURAND EMMA A ; DUNNE RICHARD B ; CUIXIA LIU ; CAO MIAOYONS ; CAO MIAOYONG ; CAO MIAO YONG ; DURAND EMMAN A ; DURAND EMMA ; CAO MIAOYANG

Inventor(s): DUNNE RICHARD

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; C BRIAN BARLOW AND ASSOCIATES; RIDOUT AND MAYBEE LLP; GOWAN INTELLECTUAL PROPERTY; BECK GREENER; FREEMAN AVI; CLT PATENT AND TRADEMARK HK LTD; PILLSBURY WINTHROP LLP INTELLECTUAL PROPERTY GROUP; PILLSBURY WINTHROP SHAW PITTMAN LLP; JACOBSON HOLMAN PLLC

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 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

Title: METHOD AND APPARATUS FOR KILLING INSECTS BY TRAPPING LARVAE

Abstract: A method and apparatus provide for the killing of insects by trapping the larvae, which either prevents development into adults or traps the adults developed from the larvae to prevent further reproduction and harm. In one preferred embodiment, the apparatus includes a container with an inverted cone or other protrusion and a second non-horizontal surface, such as a funnel, positioned above the inverted cone. The funnel defines an opening above the inverted cone. A barrier may also be included that abuts the underside of the funnel. A liquid such as water is placed in the container at a level at least above the opening such that **eggs** laid in the water become larvae that swim downward and are directed through the opening by the funnel and are directed away from the opening by the inverted cone. The larvae either drown, if the water level is above the barrier, or else become trapped adult mosquitoes that cannot escape from the container. It is noted that this abstract is provided to comply with the rules requiring an abstract that will allow a searcher or other reader to ascertain quickly the subject matter of the technical disclosure and is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.

Classifications:

International (IPC 8-9): A01M1/02 A01M1/10 A01M1/20 H04N5/44 H04N5/50 H04N5/60 (Advanced/Invention);

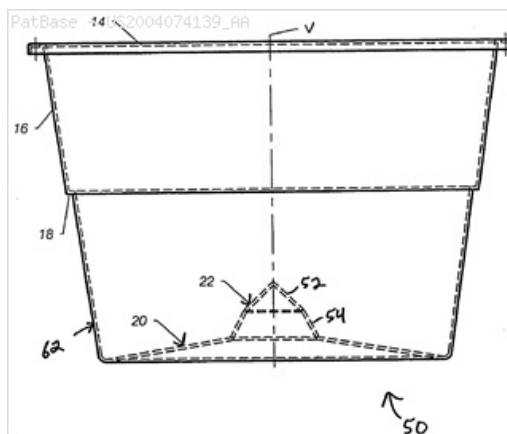
A01M1/00 A01M1/02 A01M1/20 H04N5/50 (Core/Invention)

International (IPC 1-7): A01M1/02 A01M1/10 A01M1/20

CPC: Y10S348/908 Y10S358/908 H04N7/163 H04N21/4263 H04N21/4383 H04N21/4394 H04N21/4882 H04N21/812 Y02A50/371 A01M1/106 A01M2200/012

European: A01M1/02B A01M1/04 A01M1/10F H04N21/426B3 H04N21/438T H04N21/439D H04N21/488M H04N21/81C H04N7/16E2 K01M200/012 K01M201/02

US: 348/553 348/731 348/731P 348/738 348/738S 348/908 348/E7.061 348/E70.61S 358/908 43/107 43/122



Family:

Publication number	Publication date	Application number	Application date
AU2003272803 AA	20040419	AU20030272803	20030925
US2004074139 AA	20040422	US20030671947	20030926
US2005160659 AA	20050728	US20050083661	20050318
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US6886293 BB	20050503	US20030671947	20030926
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US7134238 BB	20061114	US20050083661	20050318
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WO04028248 A1	20040408	WO2003US30974	20030925

Priority:

US20010998148 20011130 US20020413963P 20020926 WO2003US30974 20030925
US20030671947 20030926 US20050083661 20050318 US20050300977 20051215
US20060637228 20061211

Probable Assignee: BELLSOUTH INTELLECTUAL PORPERTY CORP

Assignee(s): (std): AT AND T IP I LP ; BELLSOUTH INTELLECT PTY CORP ; AT AND T INTELLECTUAL PROPERTY I ; FOREHAND JAMES DANIEL

Assignee(s): AT AND T DELAWARE INTELLECTUAL PROPERTY INC ; FOREHAND JAMES D ; AT AND T INTELLECTUAL PROPERTY I LP ; BELLSOUTH INTELLECTUAL PORPERTY CORP ; BELLSOUTH INTELLECTUAL PROPERTY CORP

Inventor(s): (std): FOREHAND JAMES D ; FOREHAND JAMES DANIEL ; STRICKLAND NORMI ; MEADOWS VERNON

Inventor(s): JAMES DANIEL FOREHAND ; FOREHAND JAMES

Agent(s): MERCHANT AND GOULD PC ; D KENT STIER MERCHANT AND GOULD PC ; ATTENTION OF D KENT STIER MERCHANT AND GOULD PC ; MERCHANT AND GOULD ; RODGERS AND RODGERS ; PARKS IP LAW LLC ; JENNIFER P

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 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 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 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

Title: SYSTEM FOR TRAPPING FLYING INSECTS AND A METHOD FOR MAKING THE SAME

Abstract: The present application discloses a device for attracting and capturing flying insects, and a method for attracting and capturing flying insects. The device and method use at least one electrically-powered airflow generator and an electrically-powered heater.

Classifications:

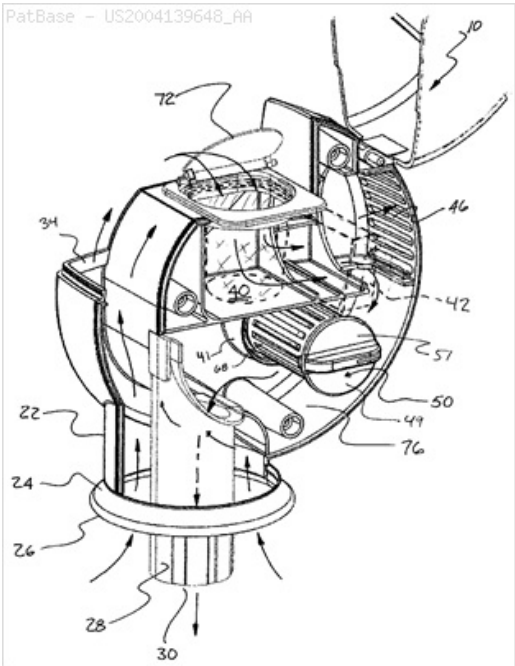
International (IPC 8-9): A01M1/02 A01M1/06 (Advanced/Invention)

International (IPC 1-7): A01M1/02 A01M1/06 A01M1/08 A01M5/08

CPC: A01M1/023 A01M1/06 A01M2200/012

European: A01M1/02B A01M1/02C A01M1/06 K01M200/012 K01M201/02

US: 43/139 43/139P



Family:

Publication number	Publication date	Application number	Application date
AU2003287146 AA	20040513	AU20030287146	20031014
TH64419 A	20040930	TH20031003917	20031016
TW200418373 A	20041001	TW20030128728	20031016
US2004139648 AA	20040722	US20030686815	20031017
US8347549 BB	20130108	US20030686815	20031017
WO04036989 A1	20040506	WO2003US32484	20031014

Priority:

US20020419085P 20021018 WO2003US32484 20031014 US20030686815 20031017

Probable Assignee: WOODSTREAM CORP

Assignee(s): (std): AMERICAN BIOPHYSICS CORP ; WOODSTREAM CORP ; PALOMBO MICHAEL J ; DURAND EMMA A

Assignee(s): GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP ; FI SHOCK INC ; PERKY PET PRODUCTS INC ; SENORET CHEMICAL CO ; WOODSTREAM SUCCESSOR TO AMERICAN BIOPHYSICS CORP CORP ; ALLIED CAPITAL CORP ; RAM OPPORTUNITY FUND I ; FLEET CAPITAL CORP ; RAM OPPORTUNITY FUND I LLC ; ANTARES CAPITAL AGENT AS CORP ; ANTARES CAPITAL AGENT CORP AS ; ANTARES CAPITAL CORP ; ARES CAPITAL COLLATERAL AGENT AS CORP ; CALIFORNIA PLASTIC PRODUCTS INC

Inventor(s): (std): DURAND EMMA A ; PALOMBO MICHAEL J

Inventor(s): EMMA A DURAND ; MICHAEL J PALOMBO

Agent(s): JACOBSON HOLMAN PLLC

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 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 KR KZ LC 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

Title: TRAP WITH FLUSH VALVE

Abstract: The present application discloses a flying insect trapping device configured to be used with a fuel supply containing combustible fuel. One aspect of the invention provides a fuel regulator for controlling fuel flow in intermittent pulses and another aspect provides a valve for enabling flushing of the combustion device.

Classifications:

International (IPC 8-9): A01M A01M1/02 A01M1/06

A01M5/00 (Advanced/Invention);

A01M1/00 A01M1/02 A01M5/00 (Core/Invention);

A01M (Subclass/Invention)

International (IPC 1-7): A01M1/02 A01M1/06

CPC: A01M1/023 A01M1/06 A01M5/00 A01M2200/012 Y10S43/00

European: A01M1/02B A01M1/02C A01M1/06 A01M5/00

K01M200/012 K01M201/02

US: 43/107 43/139 431/390

PatBase - US2004237381_AA

Patent Application Publication Dec. 2, 2004 Sheet 1 of 23 US 2004/0237381 A1

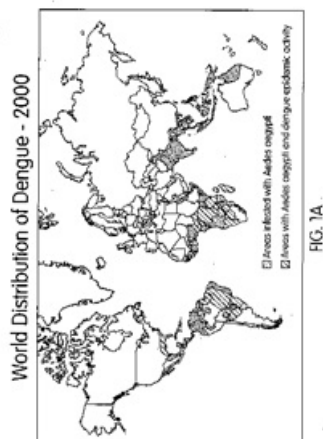


FIG. 1A

Family:

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CA2526373 AA	20051118	CA20042526373	20040512
CA2526373 C	20080715	CA20042526373	20040512
CN100456931 C	20090204	CN200480014440	20040512
CN1794909 A	20060628	CN200480014440	20040512
EP1633187 A1	20060315	EP20040751875	20040512
HK1083718 A1	20060714	HK20060105778	20060518
HK1083718 A3	20060714	HK20060105778	20060518
IN03147CN2005 A	20070727	IN2005CN03147	20051125
IN224523 B	20081205	IN2005CN03147	20051125
JP2007500515 T2	20070118	JP20060532950T	20040512
KR20060015310 A	20060216	KR20057022579	20040512
MXPA05012673 A1	20060222	MX2005PA12673	20040512
NZ544350 A	20090228	NZ20040544350	20040512
US2004237381 AA	20041202	US20030445199	20030527
US6817140 BA	20041116	US20030445199	20030527
WO04105480 A1	20041209	WO2004US14706	20040512
ZA200508973 A	20070328	ZA20050008973	20040512

Priority:

US20030445199 20030527 WO2004US14706 20040512

Probable Assignee: WOODSTREAM CORP

Assignee(s): (std): DURAND EMMA AMELIA ; OSTER RICHARD M ; DURAND EMMA A ; AMERICAN BIOPHYSICS CORP ; AMERICAN BIOPHYSICS CORPORATION ; WOODSTREAM CORP

Assignee(s): WOODSTREAM SUCCESSOR TO AMERICAN BIOPHYSICS CORP CORP ; ALLIED CAPITAL CORP ; AMERICAN BIOPHYSICS CORP ; ANTARES CAPITAL AGENT AS CORP ; ANTARES CAPITAL AGENT CORP AS ; ANTARES CAPITAL CORP ; FLEET CAPITAL CORP ; RAM OPPORTUNITY FUND I ; SILICON VALLEY BANK ; COWAN PLASTICS LLC ; RAM OPPORTUNITY FUND I LLC ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP ; CALIFORNIA PLASTIC PRODUCTS INC ; FI SHOCK INC ; PERKY PET PRODUCTS INC ; SENORET CHEMICAL CO ; ARES CAPITAL COLLATERAL AGENT AS CORP

Inventor(s): (std): DURAND EMMA A ; DURAND EMMA A OSTER RICHARD M ; DURAND EMMA AMELIA ; EMMA A DURAND ; OSTER RICHARD M ; RICHARD M OSTER

Inventor(s): DURAND EMMA ; OSTER RIHARD ; OSTER RIHARD M

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BORDEN LADNER GERVAIS LLP; BIRD AND BIRD

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 KR KZ LC LI 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

Title: INSECT TRAP

Abstract: The invention relates to an insect trap (10), which mimics certain characteristics of a mammal and comprises a housing comprising a base (22) and a cover (24). The pad generates an infrared heat source (14) and can also generate water vapour (16). The trap has an insect retention surface (18) and is characterized in that the cover is positioned over the base in a manner such that it defines an opening (50) around the base/cover interface (52). The opening has a depth (d) of less than 1.5 cm and is sized and positioned such that at least one attractant signal (14', 16') is directed out of the opening in a manner allowing effective operation for at least 8 hours.

Classifications:

International (IPC 8-9): A01M1/02 A01M1/10 A01M1/14 C09K5/16 (Advanced/Invention);

A01M1/02 A01M1/14 (Advanced/Non-invention);

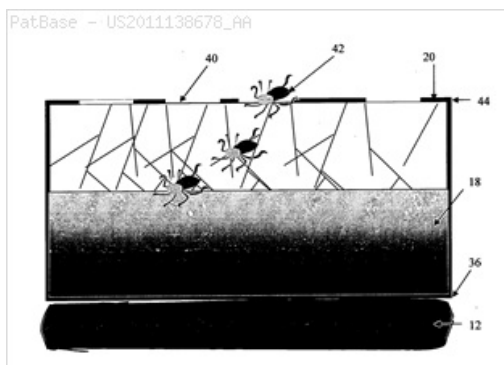
A01M1/00 A01M1/02 (Core/Invention)

International (IPC 1-7): A01M1/02

CPC: A01M1/14 A01M1/023 A01M1/103 Y02A50/374

European: A01M1/02C A01M1/14

US: 43/107 43/107P 43/114 43/121 43/123



Family:

Publication number	Publication date	Application number	Application date
AU2009208773 AA	20090806	AU20090208773	20090129
AU2009208773 BB	20140911	AU20090208773	20090129
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GB2457103 B2	20101103	GB20080002217	20080131
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IN05260DN2010 A	20110225	IN2010DN05260	20100721
JP2011510649 T2	20110407	JP20100544775T	20090129
JP2015130860 A2	20150723	JP20140252692	20141215
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NZ586839 A	20130328	NZ20090586839	20090129
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US2011138678 AA	20110616	US20090865513	20090129
US2015230448 AA	20150820	US20150600476	20150120
US8959831 BB	20150224	US20090865513	20090129
WO09095671 A2	20090806	WO2009GB00250	20090129
WO09095671 A3	20091126	WO2009GB00250	20090129

Priority:

GB20080002217 20080131	GB20080019677 20081027	GB20080019676 20081027
AU20090208773 20090129	EP20090707015 20090129	WO2009GB00250 20090129
NZ20090586839 20090129	JP20100544775 20090129	JP20100544775T 20090129
US20110865513 20110218	AU20140268268 20141128	JP20140252692 20141215
US20150600476 20150120		

Probable Assignee: BRANDENBURG UK LTD

Assignee(s): (std): BRANDENBURG ; BRANDENBURG UK LTD ; MIDMOS SOLUTIONS LTD ; SMITH COLIN

Assignee(s): MIDMOS SOLUTIONS LTD BRIERLEY HILLS ; MIDMOS SOLUTIONS LIMITED ; BRANDENBURG UK LIMITED

Inventor(s): (std): SMITH COLIN ; COLIN SMITH

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; PATENTANWALTSKANZLEI MEYER; SCHILLER DOMINIC CHRISTOPHER; TAKEUCHI SHIGEO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; YAMAMOTO OSAMU; PATRICK MIRANDAH CO S PTE LTD; RADER FISHMAN AND GRAUER PLLC; ENTRLPNEUR LIMITED

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 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 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 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

