

Search history

Search 1: FT=(POLLEN~ AND TRAP~ AND BEE~ AND COLLECTOR~ AND BOX~ AND (DUCT~ OR TUBE~)) (Results 61)

Search 2: FT=(POLLEN~ AND TRAP~ AND BEE~ AND COLLECTOR~ AND BOX~) AND IC =(A01K) (Results 11)

Search 3: FT=(POLLEN~ AND TRAP~ AND BEEHIVE~ AND COLLECTOR~ AND FLOOR~) AND IC =(A01K) (Results 6)

Search 4: FT=(POLLEN~ AND TRAP~ AND BEEHIVE~ AND COLLECTOR~) AND IC =(A01K) (Results 13)

Title: **BEEHIVE** ROTATED BY THE LIFE ACTIVITIES OF BEES WITH ROTATING NEST FRAME AND PROCESS FOR KEEPING BEE FAMILIES FOR THE SELECTION OF BREEDING

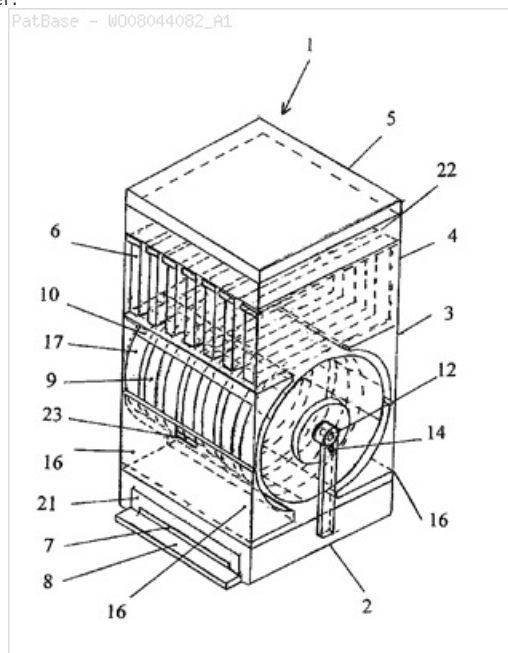
Abstract: The subject of the invention is a **beehive** rotated by the life activities of bees with rotating nest frame for keeping bee families for the selection of breeding. The essential point of the invention is that rotating nest frames (9) - which are connected to each other between closing rotating nest frames (17) - are in (3) rotating nest frame drawers, and at least one of the closing rotating frame (17) is equipped with a device allowing rotation only in one direction (12), which at least partly fits into the holder of its **beehive**'s framework, wall, furthermore it is a process for keeping bee families and for determining the condition and breeding features of bee families from the results of the revolution counter.

Classifications:

International (IPC 8-9): A01K47/00 A01K47/02 (Advanced/Invention);
A01K47/00 (Core/Invention)

CPC: A01K47/00 A01K47/02 A01K47/06

European: A01K47/00 A01K47/02 A01K47/06



Family:

Publication number	Publication date	Application number	Application date
HU0600768 A0	20061228	HU20060000768	20061009
HU0600768 AB	20090330	HU20060000768	20061009
WO08044082 A1	20080417	WO2007HU00091	20071008

Priority:

HU20060000768 20061009

Probable Assignee: TOTH ZOLTAN

Assignee(s): (std): TOTH ZOLTAN ; ZOLTAN TOTH

Inventor(s): (std): ZOLTAN TOTH ; TOTH ZOLTAN

Designated states: AE AG AL AM 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
HU0600768 AB	20090330	LSPB	+	published / reissued	
HU0600768 AB	20110728	LSLE	-FD9A	LAPSE OF PROVISIONAL PROTECTION DUE TO NON-PAYMENT OF FEES	
WO08044082 A1	20080417	LSPB	+	published / reissued	
WO08044082 A1	20090410	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08044082 A1	20091104	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 07824983 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED

STATE(S) :

Title: THERMALLY INSULATED PLASTIC **BEEHIVE** - HAS **POLLEN** RECOVERY AND FEEDER ASSEMBLIES, ADJUSTABLE ALIGHTING PLATFORM

Abstract: The **beehive** is made of plastic, in severable removable parts which can be stored in a very small space. It is imperishable and is not subjected to damage by rodents or woodpeckers. It maintains an even temperature in winter and in summer. The hive consists of a feeder (9) and may include an aeration grill (18)n, an alighting platform (11) or a **pollen** recovery assembly (2) provided with an aeration grill (23). The hive can be delivered in parts ready for rapid assembly. The panels are manufactured as a sandwich comprising an insulating layer between two outer layers of plastic.

Classifications:

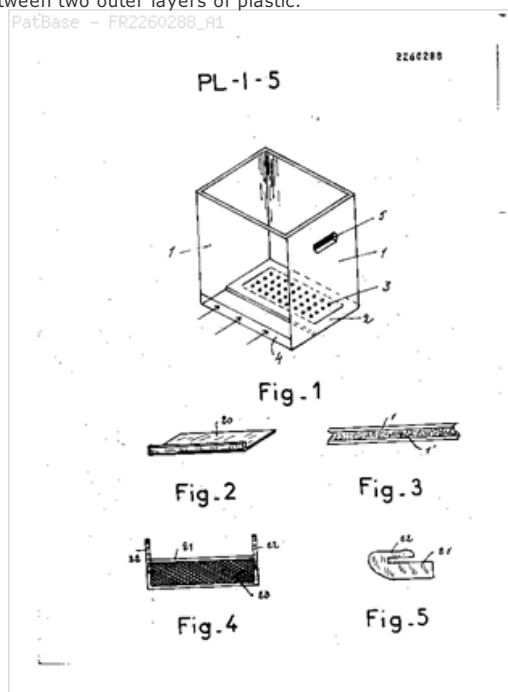
International (IPC 8-9): A01K47/00 (Advanced/Invention);

A01K47/00 (Core/Invention)

International (IPC 1-7): A01K47/00

CPC: A01K47/00

European: A01K47/00



Family:

Publication number	Publication date	Application number	Application date
FR2260288 A1	19750905	FR19740004660	19740212
FR2260288 B1	19770610	FR19740004660	19740212

Priority:

FR19740004660 19740212

Probable Assignee:

POMMIER PIERRE

Assignee(s): (std):

POMMIER PIERRE

Assignee(s):

POMMIER PIERRE FR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2260288 A1	19750905	LSPB	+	published / reissued	
FR2260288 B1	19770610	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2260288 B1	19820108	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2260288 B1	19940212	PEXP		Calculated Patent Term Expiry	

Title: **POLLEN TRAP**

Abstract:

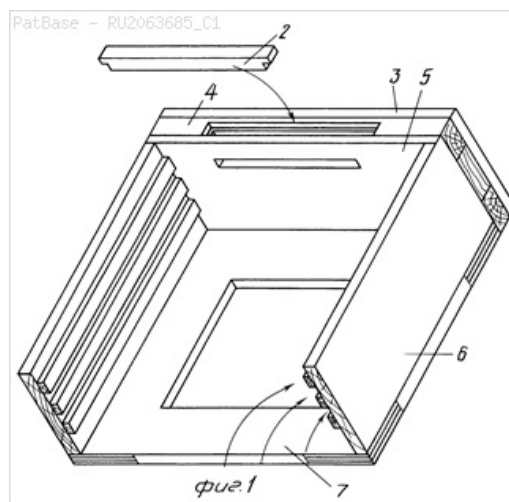
FIELD: apiculture. SUBSTANCE: **pollen trap** has casing with horizontal guides made in its side walls. Detachable ceiling, **pollen** separating and **pollen** taking screens are retracted into casing and withdrawn from casing along guides. Vertical partition with bee-entrance is positioned in casing in parallel with rear wall. Bees exit from **pollen trap** casing into **beehive** casing through bee-entrance chamber defined between partition and rear wall. When rear wall is removed, bees exit outside. Bee-entrance chamber has upper and lower openings, which may be covered by closure. **Pollen collector** disposed below casing is formed as carcass with **pollen** receiving woven fabric stretched on carcass. Lower part of each carcass side part is provided with **pollen** ventilating recesses. **Pollen trap** may be mounted on bottom or above brood nest. Bees get into **pollen trap** through bee-entrance made in front wall. EFFECT: increased efficiency, reduced tendency to caking and provision for keeping high qualities for prolonged time. 4 dwg

Classifications:

International (IPC 8-9): A01K47/06 (Advanced/Invention);

A01K47/00 (Core/Invention)

International (IPC 1-7): A01K47/06



Family:

Publication number	Publication date	Application number	Application date
RU2063685 C1	19960720	RU19940001959	19940121
RU94001959 A	19970510	RU19940001959	19940121

Priority:

RU19940001959 19940121

Probable Assignee: KUZNETSOV A P

Assignee(s): (std): KUZNETSOV A P ; KUZNETSOV ANATOLIY P

Assignee(s): KUZNETSOV AP

Inventor(s): (std): KUZNETSOV A P ; KUZNETSOV ANATOLIY P

Inventor(s): KUZNETSOV AP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU2063685 C1	19960720	LSGT	+	granted / extensions (spc, cpc, pte)	
RU2063685 C1	20140121	PEXP		Calculated Patent Term Expiry	
RU94001959 A	19970510	LSPB	+	published / reissued	

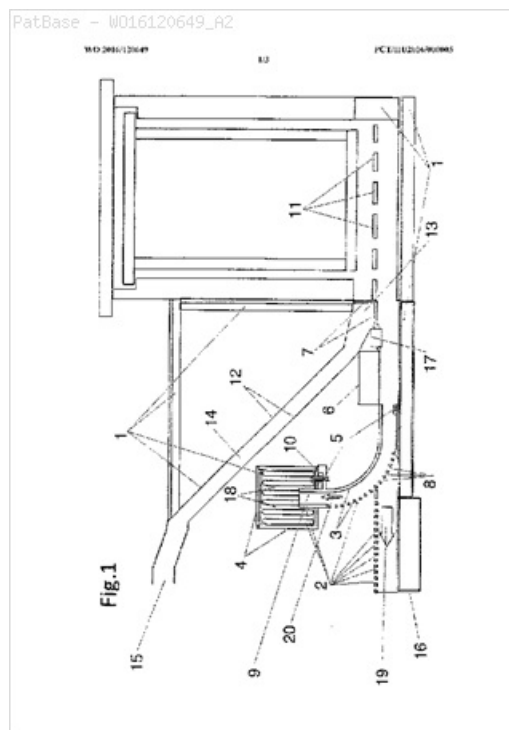
Title: DEVICE TO MANAGE HONEY BEE'S SWARMING

Abstract: A beekeeping device is suitable for comprehensively managing the whole swarming process of honey bees, for detecting swarming and capturing swarms, further dividing the parent colony after swarming, and also for preventing further swarming. The device is made of metal, wood, plastic or their combination, can be mounted on a hive and easily detached from it. The device includes at least one queen **trap** and at least one moving gate, and worker bees can constantly pass through the entrances of the device, but at the moment of swarming, the queen cannot leave the device. The device includes at least one integrated sensor that can detect the swarming- specific accumulation of bees on and about the queen **trap**, or the presence of the formerly marked queen in the device. The device includes also a control unit that is connected to the sensor and will put the moving gate into operation. The device will open the dividing tunnel integrated in the device and closing during swarming that will guide the bees after swarming to the outlet of the dividing tunnel placed at a considerable distance from the entrances; by modifying the geometry of the outlet of the dividing channel, the bees enter the device from the hive, which instinctively orient them towards the outlet of the dividing channel after swarming.

Classifications:

International (IPC 8-9): A01K29/00 A01K47/00 A01K47/06 A01K57/00 (Advanced/Invention)

CPC: A01K57/00 A01K47/06 A01K29/005



Family:

Publication number	Publication date	Application number	Application date
EP3250028 A2	20171206	EP20160742838	20160120
EP3250028 A4	20181226	EP20160742838	20160120
HU1500030 AB	20160829	HU20150000030	20150129
WO16120649 A2	20160804	WO2016HU00005	20160120
WO16120649 A3	20170302	WO2016HU00005	20160120

Priority:

HU20150000030 20150129 WO2016HU00005 20160120

Probable Assignee: FENDRIK AMIN

Assignee(s): (std): FENDRIK AMIN ; FENDRIK ARMIN ; FENDRIK PETER

Inventor(s): (std): FENDRIK ARMIN ; FENDRIK PETER ; FENDRIK AMIN

Agent(s): PINTZ GYOERGY; FENDRIK GYULA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP3250028 A2	20171206	LSPB	+	published / reissued	
EP3250028 A2	20171206	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170829

EP3250028 A4	20181226	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20181123
HU1500030 AB	20160829	LSPB	+	published / reissued	
HU1500030 AB	20180528	LSRE	-FA9A	LAPSE OF PROVISIONAL PATENT PROTECTION DUE TO RELINQUISHMENT OR PROTECTION CONSIDERED RELINQUISHED	
HU1500030 AB	20181029	LSRE	+RH9A	WITHDRAWAL OF DECISION ON THE LAPSE OF PATENT PROTECTION	
WO16120649 A2	20160804	LSPB	+	published / reissued	
WO16120649 A3	20170801	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: DEVICE FOR HYGIENIZING, WARMING, AND DEHUMIDIFYING A **BEEHIVE**

Abstract: A device 30 and associated process are described for hygienizing and warming **beehives** aiming at the improvement of the production of organic bee produce, said device comprising providing a bee box 1 containing frames 5 for honey production and bee housing, one frame 5 a being left for inserting a ceramic block 11 provided with at least one row containing from 8 to 32 channels 11 a and where the lower and upper ends of these channels 11 a are opened towards the interior of the **beehive**, channels 11 a being thermally insulated from the remaining of frame 5 a with the aid of wings 15 a, 15 b and traversed by conducting filaments 14 a, 14 b connected to an energy source 20 through wire 7, whereby whenever electrical current traverses said filaments 14 a, 14 b the temperature inside said channels attains from 300-350 degrees centigrade with the consequent heating of circulating air in the **beehive** by convection, the warmed air from the upper ends of said channels creating a negative pressure in the lower ends of same, whereby the outer colder air is sucked towards the interior of said channels, alternatively by using a fan or air pump, with the consequent extermination of the microorganisms present in the air as they cross warmed channels 11 a.

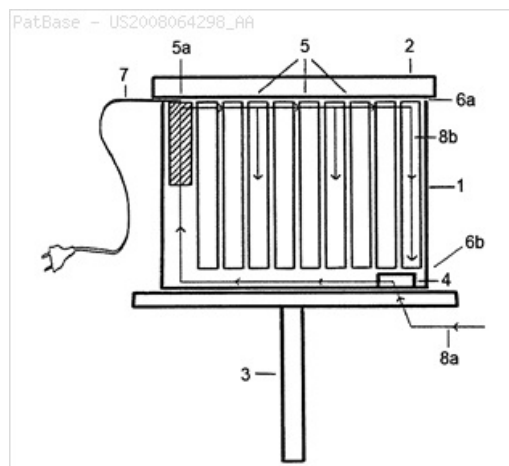
Classifications:

International (IPC 8-9): A01K47/06 A01K51/00 (Advanced/Invention);
A01K47/00 A01K51/00 (Core/Invention)

CPC: A01K47/06 A01K51/00

European: A01K47/06 A01K51/00

US: 449/12 449/2 449/35



Family:

Publication number	Publication date	Application number	Application date
BRPI0603782 A	20080429	BR2006PI03782	20060911
US2008064298 AA	20080313	US20070798352	20070514
US7666057 BB	20100223	US20070798352	20070514

Priority:

BR2006PI03782 20060911

Probable Assignee: BUZZATTI MARCELO GOLIN

Assignee(s): (std): BUZZATTI MARCELO GOLIN ; GOLIN BUZZATTI MARCELO ; GOLIN BUZZATTI MARLO ; JUNQUEIRA DE SOUZA MARCIO ; REGATTIERI SAMPAIO MARCELO ; SOUZA MARCIO JUNQUEIRA DE ; SAMPAIO MARCELO REGATTIERI

Assignee(s): MARCIO JUNQUEIRA DE SOUZA ; MARCELO GOLIN BUZZATTI ; MARCELO REGATTIERI SAMPAIO

Inventor(s): (std): SOUZA MARCIO JUNQUEIRA DE ; BUZZATTI MARCELO GOLIN ; SAMPAIO MARCELO REGATTIERI ; GOLIN BUZZATTI MARLO ; GOLIN BUZZATTI MARCELO ; REGATTIERI SAMPAIO MARCELO ; JUNQUEIRA DE SOUZA MARCIO

Inventor(s): MARCELO REGATTIERI SAMPAIO ; MARCELO GOLIN BUZZATTI ; MARCIO JUNQUEIRA DE SOUZA

Agent(s): SUGHRUE MION PLLC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI0603782 A	20080429	LSPB	+	published / reissued	
BRPI0603782 A	20140422	LSRV	B11E	DISMISSAL ACC. ART. 34 OF IPL - REQUIREMENTS FOR EXAMINATION INCOMPLETE	
US2008064298 AA	20080313	LSPB	+	published / reissued	
US2008064298 AA	20100203	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7666057 BB	20100223	LSGT	+	granted / extensions (spc, cpc, pte)	
US7666057 BB	20100203	LSGT	PAT1	Patented Case	
US7666057 BB	20140114	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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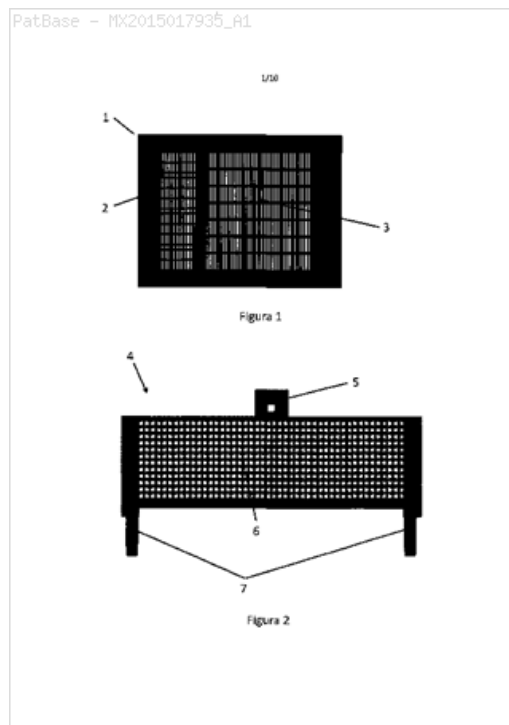
EVENT CODE: REM.)					
US7666057 BB	20180222	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2555)
US7666057 BB	20180222	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7666057 BB	20280310	PEXP		Calculated Patent Term Expiry (PTA 301 days)	

Title: FLOOR FOR **BEEHIVE**.

Abstract: The present invention relates to the technical field of mechanics, beekeeping, and more specifically to hives since it provides a hive floor, which allows a better control of the entrance of the bees to the hive by decreasing the counter flow. Also, it provides a better utilization of the products since the **pollen** is obtained separately without intervening directly in the hive. Besides of that, the control of parasites that directly attack the bees is improved since it provides a **trap** for permanently attracting and capturing these parasites preventing them from taking an opportunity to climb back into the hive since it possesses a tray to which an adherent solution is added. Another advantage is that the building materials are lighter and resistant to conventional materials which suffer from deterioration due to the moisture present in nature, thereby reducing maintenance costs and optimizing the transport of said hives.

Classifications:

International (IPC 8-9): A01K47/06 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
MX2015017935 A1	20170620	MX20150017935	20151221

Priority:

MX20150017935 20151221

Probable Assignee:

XNOX S A DE C V

Assignee(s): (std):

XNOX S A DE C V

Assignee(s):

XNOX DE CV SA

Inventor(s): (std):

IBONNE VARELA MARIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
MX2015017935 A1	20170620	LSPB	+	published / reissued	

Title: MULTI-USE **BEEHIVE**

Abstract: The invention relates to a multi-use **beehive**, which consists of a base (1), a deck (2), an inner supplier (3), a queen partition (22) and a lid (4). The base (1) has spacers (7), flying boards (8) for the bees and a perforated floor (12). The deck (2) consists of two parts (14), (15) with an inner insulation (18) and a connection flange (5). The inner supplier (3) has a pan (25) and grid (26) for receiving liquid and solid feed respectively, while the queen partition (22) allows accommodation of the queen. Finally, the lid (4) has also an insulation (18) and aeration ports (6). The **beehive** is made of plastic and its parts comprise holes for the assembling thereof by means of pins (19).

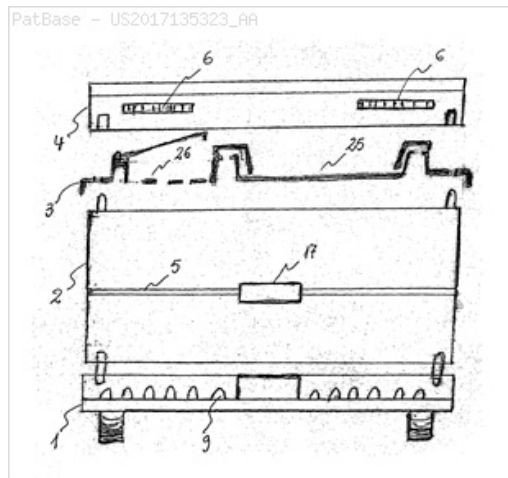
Classifications:

International (IPC 8-9): A01K47/00 A01K47/06

A01K53/00 (Advanced/Invention)

CPC: A01K53/00 A01K47/06 A01K47/00

US: 1/1 449/7



Family:

Publication number	Publication date	Application number	Application date
AU2015287417 AA	20170216	AU20150287417	20150703
AU2015287417 BB	20190502	AU20150287417	20150703
EP3209123 A1	20170830	EP20150753744	20150703
GR1008613 B	20151113	GR20140100372	20140708
US2017135323 AA	20170518	US20150322786	20150703
WO16005776 A1	20160114	WO2015GR00033	20150703

Priority:

GR20140100372 20140708 WO2015GR00033 20150703

Probable Assignee: GEROGIANNIS ARISTOS

Assignee(s): (std): GEROGIANNIS ARISTOS ; GEROGIANNIS ARISTOS KONSTANTINOU

Inventor(s): (std): GEROGIANNIS ARISTOS ; GEROGIANNIS ARISTOS KONSTANTINOU

Agent(s): FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; MAROULIS ANDREAS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2015287417 AA	20170216	LSPB	+	published / reissued	
AU2015287417 BB	20190502	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2015287417 BB	20190829	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2015287417 BB	20350703	PEXP		Calculated Patent Term Expiry	
EP3209123 A1	20170830	LSPB	+	published / reissued	
EP3209123 A1	20170830	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170208
GR1008613 B	20151113	LSGT	+	granted / extensions (spc, cpc, pte)	
GR1008613 B	20160617	LSGT	+PG	PATENT GRANTED	EFFECTIVE DATE : 20160201
GR1008613 B	20340708	PEXP		Calculated Patent Term Expiry	

US2017135323 AA	20170518	LSPB	+	published / reissued	
US2017135323 AA	20190116	LSES	NFA1	Non Final Action Mailed	
US2017135323 AA	20190813	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO16005776 A1	20160114	LSPB	+	published / reissued	
WO16005776 A1	20161229	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15322786 COUNTRY OF REF DOCUMENT : US
WO16005776 A1	20170109	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO16005776 A1	20170207	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2015753744 COUNTRY OF REF DOCUMENT : EP
WO16005776 A1	20170216	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2015287417 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20150703 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :

Title: WASP-CAPTURING DEVICE

Abstract: The invention relates to a wasp-capturing device for use in apiaries, which comprises a mesh or grid enclosure or covering (1) that covers the apiary from above, occupying at least the area located in front of the **beehives** and bordering the entrance holes thereof, but without completely closing the apiary, since the covering does not reach the ground on all sides. The covering mesh (1) comprises holes of a size sufficient to allow the passage therethrough of the bees but prevent the passage of Asian wasps. The device further comprises at least one collecting element (2) for gathering the wasps, which comprises a directing ramp (3) for directing the insects towards a selecting chamber (4) through an entrance hole (8) having a constricted configuration, and at least one **trapping** tank (6) with access from the selecting chamber (4) through a hole (5).

Classifications:

International (IPC 8-9): A01K47/06 A01M1/10

A01M23/08 (Advanced/Invention)

CPC: A01M23/08 A01M1/106 A01K47/06 A01M1/10 A01K47/00

PatBase - WO17077161_A1

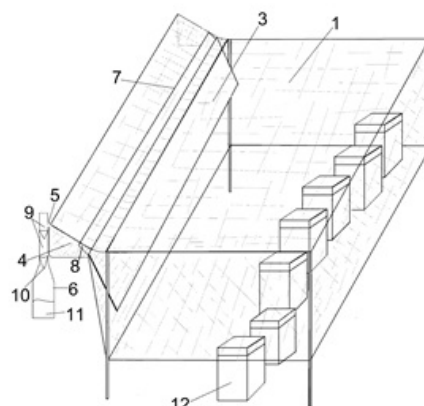


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
EP3372075 A1	20180912	EP20160861657	20161104
EP3372075 A4	20190710	EP20160861657	20161104
ES2611500 AA	20170509	ES20150031585	20151104
ES2611500 BA	20180228	ES20150031585	20151104
WO17077161 A1	20170511	WO2016ES70780	20161104

Priority:

ES20150031585 20151104 WO2016ES70780 20161104

Probable Assignee: ASTIZ IGOA ERNESTO

Assignee(s): (std): ASTIZ IGOA ERNESTO

Assignee(s): ERNESTO ASTIZ IGOA

Inventor(s): (std): ASTIZ IGOA ERNESTO

Inventor(s): ERNESTO ASTIZ IGOA

Agent(s): ZUGARRONDO JESUS MARIA; ZUGARRONDO TEMINO JESUS MARIA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ 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 IR IS IT JP KE KG KM KN KP KR KW 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP3372075 A1	20180912	LSPB	+	published / reissued	
EP3372075 A1	20180912	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20180601
EP3372075 A4	20190710	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20190612
ES2611500 AA	20170509	LSPB	+	published / reissued	
ES2611500 BA	20180228	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2611500 BA	20180228	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2611500

COUNTRY OF REF
DOCUMENT : ES
KIND CODE OF REF
DOCUMENT : B1
DESIGNATED STATE(S)
:
EFFECTIVE DATE :
20180228

ES2611500 BA	20351104	PEXP		Calculated Patent Term Expiry	
WO17077161 A1	20170511	LSPB	+	published / reissued	
WO17077161 A1	20180505	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17077161 A1	20180604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2016861657 COUNTRY OF REF DOCUMENT : EP

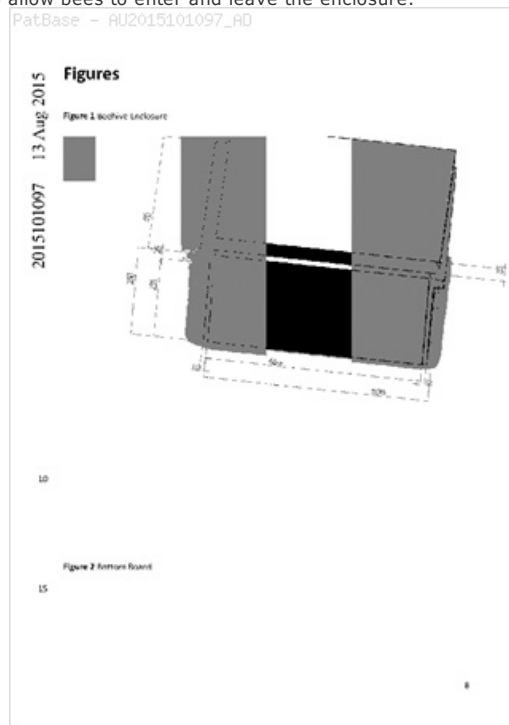
Title: BEEHIVE ENCLOSURE

Abstract: The bee hive has retained the Langstroth Hive enclosure size and design and has incorporated a small hive beetle trap and a Varroa mite deterrent into the design. The innovative material and design provides improved heating and cooling properties. The device enables the extraction of honey, propolis, cereum, wax and pollen to be removed from the bee enclosure. The material used is sourced from recycled and new plastic for example, but not limited to High Density Polyethylene (HDPE) which embodies the sustainability philosophy of recycling, HOPE is a valuable material that can be recycled to deliver a durable product requiring little or no maintenance and providing the beekeeper with a higher return on their time and investment. By adopting the Langstroth Hive dimensions, the bee enclosure is easily mixed and matched with wooden hives currently in use. A feature of the invention is a locking device which secures the beehive container and including the removable lid and the bottom board. A further feature of the invention is software to support and monitor the inventive beehive described above and bees to provide an integrated system which will enable the bee keeper to record the age, condition, rotation and efficiency of their hive enclosures and bees. Figure 3 Bee Hive enclosure with circular opening to allow bees to enter and leave the enclosure.

Classifications:

International (IPC 8-9): A01K47/06 (Advanced/Invention)

PatBase - AU2015101097_AD



Family:

Publication number	Publication date	Application number	Application date
AU2015101097 AD	20150924	AU20150101097	20150813

Priority:

AU20150101097 20150813

Probable Assignee:

HIVE HAVEN PTY LTD

Assignee(s): (std):

HIVE HAVEN PTY LTD

Inventor(s): (std):

ROSS JEFFREY ; ROSS ANN

Agent(s):

HIVE HAVEN PTY LTD

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU2015101097 AD	20150924	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2015101097 AD	20150924	LSGT	+FGI	LETTERS PATENT SEALED OR GRANTED (INNOVATION PATENT)	
AU2015101097 AD	20350813	PEXP		Calculated Patent Term Expiry	

Title: TRAFFIC CONTROL HIVE BASE

Abstract: (Claim 1) 1. A method of eliminating traffic congestion in a beehive comprising separating incoming honey laden bees from out-going honey seeking bees by providing separate inlet and outlet passages for a beehive, providing contrasting dark and light areas for said inlet and outlet passages respectively and thereby utilizing the natural instincts of honey laden bees to seek the dark areas and of honey seeking bees to seek the light areas.

Classifications:

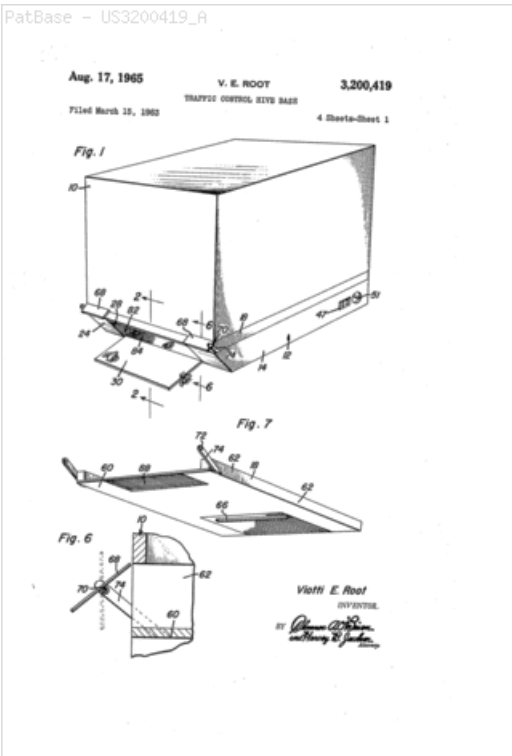
International (IPC 8-9): A01K47/06 (Advanced/Invention);
A01K47/00 (Core/Invention)

International (IPC 1-7): A01K47/00

CPC: A01K47/06

European: A01K47/06

US: 449/2 449/25



Family:

Publication number	Publication date	Application number	Application date
US3200419 A	19650817	US19630265509	19630315

Priority:

US19630265509 19630315

Probable Assignee: ROOT VIOTTI E

Assignee(s): (std): ROOT VIOTTI E

Inventor(s): (std): ROOT VIOTTI E

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
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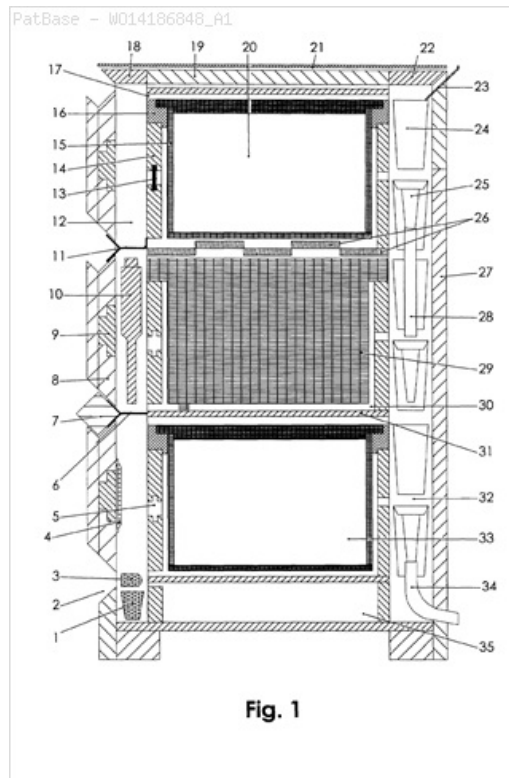
Title: BEEHIVE

Abstract: It has frames situated at several levels in common body. The common inner space is separated vertically at each level at: case space (20) with frames grouped in a case (15); one transverse redirecting frame space (12) for collocation a system for redirecting the bees between all the separate spaces; and one transverse watering space (32). The frames - freed from the redirected bees could be taken out laterally. The queen bee can be directed from each case space (20) to exactly defined single frame (10) in the transverse redirecting frame space (12) in order to be found on it. The access to each separate inner space is independent - to the upmost one - by laterally sliding cover (21) and to the other levels - sideward through separate movable outer walls (8). Watering goes through two parallel and independently functioning watering systems, independently connected by gravity through the spillways of the racks (25).

Classifications:

International (IPC 8-9): A01K47/00 A01K47/06 (Advanced/Invention);
A01K47/00 (Core/Invention)

CPC: A01K47/00 A01K47/06

**Family:**

Publication number	Publication date	Application number	Application date
BG111478 A	20130930	BG20130111478	20130522
DE602014013850 D1	20171005	DE201460013850T	20140520
EA030819 B1	20181031	EA20150092220	20140520
EA201592220 A1	20161230	EA20150092220	20140520
EP2999328 A1	20160330	EP20140739660	20140520
EP2999328 B1	20170830	EP20140739660	20140520
HR20171830 T1	20171229	HR20170001830	20171123
RS56706 B1	20180330	RS20170001202	20140520
TR201719168 T4	20171221	TR20170019168T	20140520
UA115480 C2	20171110	UA20150012510	20140520
WO14186848 A1	20141127	WO2014BG00021	20140520

Priority:

BG20130111478 20130522 EP20140739660 20140520 WO2014BG00021 20140520

Probable Assignee: TODOROV TODOR DOBREV

Assignee(s): (std): TODOROV TODOR ; TODOROV TODOR DOBREV

Assignee(s): TODOR DOBREV TODOROV

Inventor(s): (std): TODOROV TODOR DOBREV ; TODOROV TODOR

Inventor(s): TODOR DOBREV TODOROV

Agent(s): BENATOV SAMUIL GABRIEL; YESIM METIN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
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DE602014013850 D1	20181201	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
EA030819 B1	20181031	LSGT	+	granted / extensions (spc, cpc, pte)	
EA030819 B1	20191230	LSLE	-MM4A	LAPSE OF A EURASIAN PATENT DUE TO NON-PAYMENT OF RENEWAL FEES WITHIN THE TIME LIMIT IN THE FOLLOWING DESIGNATED STATE(S)	COUNTRY OF REF DOCUMENT : AM COUNTRY OF REF DOCUMENT : AZ COUNTRY OF REF DOCUMENT : BY COUNTRY OF REF DOCUMENT : KG COUNTRY OF REF DOCUMENT : KZ COUNTRY OF REF DOCUMENT : TJ COUNTRY OF REF DOCUMENT : TM
EA030819 B1	20340520	PEXP		Calculated Patent Term Expiry	
EA201592220 A1	20161230	LSPB	+	published / reissued	
EP2999328 A1	20160330	LSPB	+	published / reissued	
EP2999328 A1	20160330	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20151218
EP2999328 A1	20170329	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20170301
EP2999328 B1	20170830	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP2999328 B1	20170831	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP2999328 B1	20171005	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602014013850 COUNTRY OF REF DOCUMENT : DE
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EP2999328 B1	20180731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR PAYMENT DATE : 20180521 YEAR OF FEE PAYMENT : 5
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EP2999328 B1	20181214	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2999328 B1	20190130	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20180520
EP2999328 B1	20190131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20170830
EP2999328 B1	20190220	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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RS56706 B1	20180330	LSGT	+	granted / extensions (spc, cpc, pte)	
RS56706 B1	20340520	PEXP		Calculated Patent Term Expiry	
TR201719168 T4	20171221	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201719168 T4	20340520	PEXP		Calculated Patent Term Expiry	
UA115480 C2	20171110	LSGT	+	granted / extensions	

UA115480 C2	20340520	PEXP		(spc, cpc, pte) Calculated Patent Term Expiry	
WO14186848 A1	20141127	LSPB	+	published / reissued	
WO14186848 A1	20151123	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO14186848 A1	20151218	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2014739660 COUNTRY OF REF DOCUMENT : EP
WO14186848 A1	20151220	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 201592220 COUNTRY OF REF DOCUMENT : EA
WO14186848 A1	20151222	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2015154538 COUNTRY OF REF DOCUMENT : RU KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO14186848 A1	20151222	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : A201512510 COUNTRY OF REF DOCUMENT : UA

Title: UNTERBODEN FUER EINEN BIENENKASTEN

Abstract: The inside of the underneath-hive-floor (1), completely separate from the hive (2), is a **pollen-trap** consisting of a mesh grille (19) and slotted grid (20) spaced apart from each other and on the slant. An access wall (24) separated by wire netting (23) at the top has the **pollen trap** (27) underneath. A flight hole (10) is situated beneath the front wall of the floor, with flaps (11, 12) to seal it off. The back flap (12) has ventilation slits (13). The top of the underneath floor (1) has holes closed by slide-pieces (16), which have holes (17) in through which the bees can pass from the underneath floor to the **beehive** (2).

Classifications:

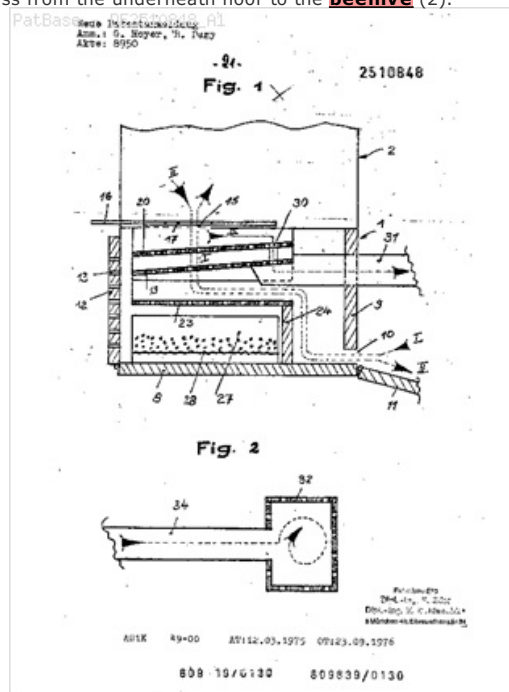
International (IPC 8-9): A01K47/06 (Advanced/Invention);

A01K47/00 (Core/Invention)

International (IPC 1-7): A01K49/00

CPC: A01K47/06

European: A01K47/06



Family:

Publication number	Publication date	Application number	Application date
DE2510848 A1	19760923	DE19752510848	19750312
DE2510848 B2	19770217	DE19752510848	19750312
DE2510848 C3	19771006	DE19752510848	19750312

Priority:

DE19752510848 19750312

Probable Assignee: HOYER

Assignee(s): (std): DANY BERND ; HOYER ; HOYER GERHARD ; MUENCHE

Inventor(s): (std): DANY BERND ; HOYER GERHARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE2510848 A1	19760923	LSPB	+	published / reissued	
DE2510848 B2	19770217	LSPB	+	published / reissued	
DE2510848 B2	19771006	LSGT	+C3	GRANT AFTER TWO PUBLICATION STEPS (3RD PUBLICATION)	
DE2510848 B2	19870319	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE2510848 C3	19771006	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: MYCOATTRACTANTS AND MYCOPESTICIDES

Abstract: The present invention utilizes the pre-sporulation (preconidial) mycelial stage of entomopathogenic fungi as insect attractants and/or pathogens. The fungus can be cultivated on grain, wood, agricultural wastes or other cellulosic material, attracting the insect and optionally introducing insect-specific pathogenic fungi. More than one fungus and substrate can be used in combination. The matrix of preconidial fungi can optionally be dried, freeze-dried, cooled and/or pelletized and packaged and reactivated for use as an effective insect attractant and/or biopesticide. Attractant extracts of the preconidial entomopathogenic mycelium are disclosed.

Classifications:

International (IPC 8-9): A01K47/06 A01K51/00 A01N25/00 A01N25/02 A01N25/04 A01N25/32 A01N25/34 A01N63/04 A01N65/00 A01P19/00 A01P7/00 A01P7/02 A01P7/04 A23K1/16 A23K1/18 A23K10/16 A23K10/30 A23K20/00 A23K20/10 A23K20/111 A23K20/147 A23K20/158 A23K20/163 A23K20/195 A23K50/00 A23K50/60 A23K50/90 A23L1/30 A23L33/145 A61K31/05 A61K31/12 A61K31/192 A61K31/352 A61K31/37 A61K31/7048 A61K35/64 A61K35/644 A61K35/74 A61K36/06 A61K36/062 A61K36/068 A61K36/07 A61K36/074 A61K36/09 A61K38/21 A61K45/06 A61K9/12 A61P31/04 A61P31/12 A61P31/18 A61P31/20 A61P33/02 A61P33/06 C12N7/06 (Advanced/Invention); A01M1/20 C12N1/14 (Advanced/Non-invention); A01N25/00 A01N63/04 A01N65/00 A01P19/00 A61K36/06 A61K36/09 A61P31/00 (Core/Invention)

International (IPC 1-7): A01N25/00 A01N25/32 A01N63/00 A01N63/04 A01N65/00 A61K35/84 A61P31/12 A61P31/18

CPC: A01N2300/00 A23L1/3018 A61K9/12 A23K20/147 A23K20/158 A61K2300/00 Y02A50/473 A23V2002/00 C12N2760/12211 Y02A50/463 A01N63/30 A01N25/006 A01N25/02 A01N25/32 A61K35/644 A61K36/07 A61K45/06 A61K31/05 A61K31/12 A61K31/7048 Y02A50/465 A61K36/074 A01K51/00 A01N65/00 A23K10/30 A23K20/00 A23K20/10 A23K20/111 A23K20/163 A23K50/90 A23L33/145 A61P31/04 A61P31/12 A61P33/02 A61P33/06 A61P31/20 A61P31/18 A61K31/192 A61K31/352 A61K31/37 A61K36/06

European: A01N63/04 A61K35/84 A61K36/06 A61K36/07 A61K36/074 M12N760/12211

US: 1/1 424/195.15 424/195.150P 424/195.150S 424/274.1 424/402 424/405 424/406 424/407 424/409 424/410 424/411 424/411P 424/413 424/417 424/418 424/488 424/537 424/795.15 424/84 424/84P 424/84S 424/85.4 424/85.400S 424/85.5 424/85.500P 424/93.5 424/93.500S 424/93.6 424/93.600S 435/178 435/179 435/180 435/238 435/238S 435/243 435/252 435/254.1 514/27 514/456 514/457 514/568 514/570 514/678 536/18.1 549/287 549/400 562/475 562/478 562/496 568/308

PatBase - US2002146394_AA

Patent Application Publication Oct. 10, 2002 Sheet 1 of 3 US 2002/0146394 A1

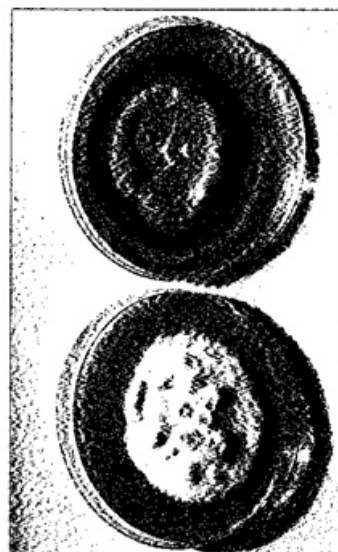


Figure 1

Family:

Publication number	Publication date	Application number	Application date
AU2001296679 AA	20020415	AU20010296679	20011003
AU2001296679 BB	20080508	AU20010296679	20011003
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AU200196679 A5	20020415	AU20010096679	20011003
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CA2939143 AA	20160809	CA20152939143	20150309
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ES2693502 T3	20181212	ES20150714701T	20150309
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IN201717033224 A	20171201	IN201717033224	20170919
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US2002146394 AA	20021010	US20010969456	20011001
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WO16161138 A1	20161006	WO2016US25309	20160331

Priority:

US20000678141	20001003	US20000678141	20001004	US20010959456	20011001
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US20160332803	20161024	AU20170200872	20170209	US20180918082	20180312
US20180950301	20180411				

Probable Assignee: MYCOSYS LLC

Assignee(s): (std): MYCO PESTICIDES LLC ; MYCOSYS LLC ; PAUL EDWARD STAMETS ; STAMETS PAUL ; STAMETS PAUL EDWARD ; STAMETS PAUL E

Assignee(s): STAMETS PAUL EDWARD SHELTON ; PAUL STAMETS

Inventor(s): (std): STAMETS PAUL ; STAMETS PAUL EDWARD ; STAMETS PAUL E ; PAUL EDWARD STAMETS

Inventor(s): PAUL STAMETS ; STAMETS PAUL EDWARD SHELTON

Agent(s): SPRUSON AND FERGUSON; GRIFFITH HACK; ROBIC; POTTER CLARKSON LLP; VALLEJO JUAN PEDRO; FULYA SUEMERALP; WILLIAM R HYDE; WILLIAM R; BERNARD A; HYDE WILLIAM R

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL 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 IR 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 PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

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Patent	Date recorded	Event group	Code	Event	Details
AU2001296679 AA	20020415	LSPB	+	published / reissued	
AU2001296679 BB	20080508	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2001296679 BB	20070816	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : MYCOSYS LLC OLDPARTY : FORMER APPLICANT(S): STAMETS, PAUL
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AU2001296679 BB	20130502	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	

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AU2015229670 AA	20160915	LSPB	+	published / reissued	
AU2015229670 AA	20170309	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2015229670 BB	20161110	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2015229670 BB	20350309	PEXP		Calculated Patent Term Expiry	
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EP3110260 B1	20191031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20180801
EP3110260 B1	20191129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20190309

EP3110260 B1	20350309	PEXP		Calculated Patent Term Expiry	
EP3277271 A1	20180207	LSPB	+	published / reissued	
EP3277271 A1	20180207	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170928
EP3277271 A1	20190515	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20190415
ES2693502 T3	20181212	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2693502 T3	20350309	PEXP		Calculated Patent Term Expiry	
HU041412 T2	20190528	LSPB	+	published / reissued	
IN201717033224 A	20171201	LSPB	+	published / reissued	
PL3110260 T3	20190131	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201816010 T4	20181121	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201816010 T4	20350309	PEXP		Calculated Patent Term Expiry	
US2002146394 AA	20021010	LSPB	+	published / reissued	
US2002146394 AA	20060927	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2004161440 AA	20040819	LSPB	+	published / reissued	
US2004161440 AA	20050310	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2004213823 AA	20041028	LSPB	+	published / reissued	
US2004213823 AA	20100127	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005238655 AA	20051027	LSPB	+	published / reissued	
US2005238655 AA	20071210	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005276815 AA	20051215	LSPB	+	published / reissued	
US2005276815 AA	20071210	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2006171958 AA	20060803	LSPB	+	published / reissued	
US2006171958 AA	20090213	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2009047236 AA	20090219	LSPB	+	published / reissued	
US2009047236 AA	20110511	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009047237 AA	20090219	LSPB	+	published / reissued	
US2009047237 AA	20110511	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009130138 AA	20090521	LSPB	+	published / reissued	
US2009130138 AA	20140611	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2011008384 AA	20110113	LSPB	+	published / reissued	
US2011008384 AA	20120421	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2011200551 AA	20110818	LSPB	+	published / reissued	
US2011200551 AA	20130717	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2012039976 AA	20120216	LSPB	+	published / reissued	
US2012039976 AA	20140528	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

US2012070414 AA	20120322	LSPB	+	published / reissued	
US2012070414 AA	20150803	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013287829 AA	20131031	LSPB	+	published / reissued	
US2013287829 AA	20160705	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2014105928 AA	20140417	LSPB	+	published / reissued	
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US2014105928 AA	20180401	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2014220150 AA	20140807	LSPB	+	published / reissued	
US2014220150 AA	20160506	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2015335689 AA	20151126	LSPB	+	published / reissued	
US2015335689 AA	20161005	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2016000754 AA	20160107	LSPB	+	published / reissued	
US2016000754 AA	20161201	LSES	NFA1	Non Final Action Mailed	
US2016000754 AA	20170921	LSES	ADV1	Advisory Action Mailed	
US2016000754 AA	20180314	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2017035820 AA	20170209	LSPB	+	published / reissued	
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US2017035820 AA	20171222	LSES	ADV1	Advisory Action Mailed	
US2017035820 AA	20180524	LSES	NFA1	Non Final Action Mailed	
US2017035820 AA	20190221	LSES	NFA1	Non Final Action Mailed	
US2017035820 AA	20200220	LSES	NFA1	Non Final Action Mailed	
US2018200224 AA	20180719	LSPB	+	published / reissued	
US2018200224 AA	20190401	LSES	NFA1	Non Final Action Mailed	
US2018200224 AA	20200311	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2018243356 AA	20180830	LSPB	+	published / reissued	
US2018243356 AA	20190925	LSES	NFA1	Non Final Action Mailed	
US6660290 BA	20031209	LSGT	+	granted / extensions (spc, cpc, pte)	
US6660290 BA	20020204	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MYCOSYS, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:STAMETS, PAUL; REEL/FRAME:012675/0539 EFFECTIVE DATE : 20020201
US6660290 BA	20031120	LSGT	PAT1	Patented Case	
US6660290 BA	20031120	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6660290 BA	20070508	LSRE	CC	CERTIFICATE OF CORRECTION	
US6660290 BA	20071005	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6660290 BA	20101214	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US6660290 BA	20150609	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6660290 BA	20201004	PEXP		Calculated Patent Term Expiry	
US7122176 BB	20061017	LSGT	+	granted / extensions (spc, cpc, pte)	
US7122176 BB	20020204	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MYCOSYS, LLC, WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:STAMETS, PAUL; REEL/FRAME:012675/0539 EFFECTIVE DATE : 20020201
US7122176 BB	20060927	LSGT	PAT1	Patented Case	
US7122176 BB	20081118	LSRE	CC	CERTIFICATE OF CORRECTION	
US7122176 BB	20100623	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7122176 BB	20140924	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7122176 BB	20180413	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7122176 BB	20230613	PEXP		Calculated Patent Term Expiry (PTA 620 days)	
US7951388 BB	20110531	LSGT	+	granted / extensions (spc, cpc, pte)	
US7951388 BB	20110511	LSGT	PAT1	Patented Case	
US7951388 BB	20141103	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7951388 BB	20181016	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
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US7951389 BB	20110531	LSGT	+	granted / extensions (spc, cpc, pte)	
US7951389 BB	20110511	LSGT	PAT1	Patented Case	
US7951389 BB	20141103	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7951389 BB	20181016	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
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US8501207 BB	20130806	LSGT	+	granted / extensions (spc, cpc, pte)	
US8501207 BB	20130717	LSGT	PAT1	Patented Case	
US8501207 BB	20170606	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8501207 BB	20310418	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US8753656 BB	20140617	LSGT	+	granted / extensions (spc, cpc, pte)	
US8753656 BB	20140528	LSGT	PAT1	Patented Case	
US8753656 BB	20180129	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8753656 BB	20180413	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, SMALL ENTITY (ORIGINAL EVENT CODE: M2554)
US8753656 BB	20180413	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8753656 BB	20311024	PEXP		Calculated Patent Term Expiry	
US8765138 BB	20140701	LSGT	+	granted / extensions	

(spc, cpc, pte)					
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US8765138 BB	20180212	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US8765138 BB	20180413	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, SMALL ENTITY (ORIGINAL EVENT CODE: M2554)
US8765138 BB	20180413	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8765138 BB	20311221	PEXP		Calculated Patent Term Expiry (PTA 1183 days and a terminal disclaimer has been filed)	
US9399050 BB	20160726	LSGT	+	granted / extensions (spc, cpc, pte)	
US9399050 BB	20160705	LSGT	PAT1	Patented Case	
US9399050 BB	20200127	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9399050 BB	20330921	PEXP		Calculated Patent Term Expiry (PTA 93 days and a terminal disclaimer has been filed)	
US9474776 BB	20161025	LSGT	+	granted / extensions (spc, cpc, pte)	
US9474776 BB	20151022	LSSE	NFA1	Non Final Action Mailed	
US9474776 BB	20161005	LSGT	PAT1	Patented Case	
US9474776 BB	20350308	PEXP		Calculated Patent Term Expiry	
US9931316 BB	20180403	LSGT	+	granted / extensions (spc, cpc, pte)	
US9931316 BB	20180314	LSGT	PAT1	Patented Case	
US9931316 BB	20350914	PEXP		Calculated Patent Term Expiry	
WO0228189 A2	20020411	LSPB	+	published / reissued	
WO0228189 A3	20030501	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001296679 COUNTRY OF REF DOCUMENT : AU
WO0228189 A3	20030814	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
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WO0228189 A3	20050914	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : JP
WO05067955 A1	20050728	LSPB	+	published / reissued	
WO05067955 A1	20060707	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05067955 A1	20060707	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05067955 A1	20070207	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO15138361 A1	20150917	LSPB	+	published / reissued	
WO15138361 A1	20160809	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2939143 COUNTRY OF REF DOCUMENT : CA
WO15138361 A1	20160912	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO15138361 A1	20160915	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2015229670 COUNTRY OF REF DOCUMENT :

					AU DATE OF REF DOCUMENT : 20150309 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO15138361 A1	20160915	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2015714701 COUNTRY OF REF DOCUMENT : EP
WO15138361 A1	20161006	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 201691802 COUNTRY OF REF DOCUMENT : EA
WO16161138 A1	20161006	LSPB	+	published / reissued	
WO16161138 A1	20170918	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2980173 COUNTRY OF REF DOCUMENT : CA
WO16161138 A1	20171003	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
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