

Search history

Search 1: FT=(ELECTRIC~ AND FENCE~ AND TESTER~) (Results 4935)
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Search 3: FT=(ELECTRIC~ AND FENCE~ AND TESTER~) AND IC =(A01K) (Results 234)
Search 4: FT=(ELECTRIC~ AND FENCE~ AND WIRE~) AND IC =(A01K) (Results 1314)
Search 5: FT=(ELECTRIC~ AND FENCE~ AND assembly~) AND IC =(A01K) (Results 543)

Title: DISPOSITIVO AUXILIAR DE RODILLO PARA LA RECOGIDA DE REDES Y METODO DE RECOGIDA DE REDES QUE UTILIZA EL MISMO.

Abstract: The device has an intermediate part of a tilted pen to guide a network collection through a fixed pulley driving to a nearby part of the tilted pen. A hanging support element is provided, whose top end part is connected to the intermediate part of the tilted pen. A mounted base element is provided on a lower part of the hanging element with a support pin. A restrained roller is mounted on a rotating base by an element of a shaft in a cantilever, which has a pair of lateral plates mounted in both sides of roller body, and a joint mechanism with a hydraulic cylinder. An independent claim is also included for a method of collecting networks.

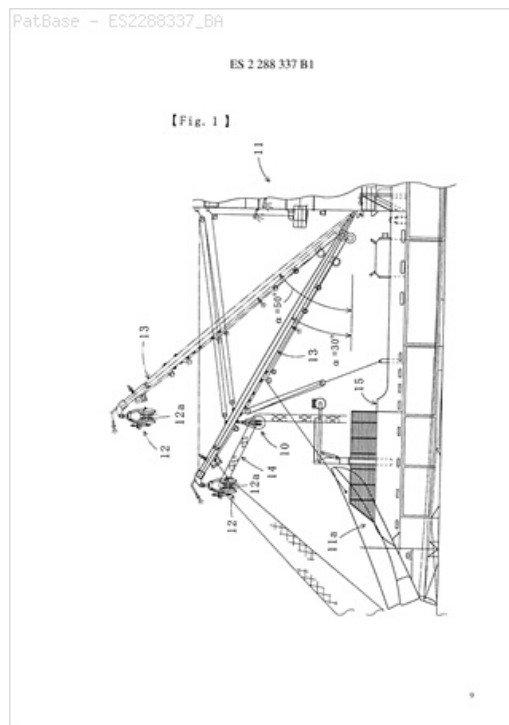
Classifications:

International (IPC 8-9): A01K73/06 (Advanced/Invention);

A01K73/00 (Core/Invention)

CPC: A01K73/06

European: A01K73/06



Family:

Publication number	Publication date	Application number	Application date
ES2288337 AA	20080101	ES20040003103	20041228
ES2288337 BA	20081116	ES20040003103	20041228

Priority:

ES20040003103 20041228

Probable Assignee: MARINE HYDROTEC CO LTD

Assignee(s): (std): MARINE HYDROTEC CO LTD

Assignee(s): MARINE HYDROTEC CO

Inventor(s): (std): OISHI HIDEHARU ; YAMAMOTO KENICHIRO

Inventor(s): HIDEHARU OISHI ; KENICHIRO YAMAMOTO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2288337 AA	20080101	LSPB	+	published / reissued	
ES2288337 AA	20080101	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20080101 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
ES2288337 BA	20081116	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2288337 BA	20081116	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2288337B1 COUNTRY OF REF DOCUMENT : ES
ES2288337 BA	20241228	PEXP		Calculated Patent Term Expiry	

Title: Isolator fuer einen Elektrozaun

Abstract: Source: DE102006050462A1 [DE] Es wird ein Isolator fuer einen Elektrozaun, wie einen Weidezaun oder dergleichen, vorgeschlagen, der mit wenigstens zwei Befestigungsschenkeln (4, 5) und einem dazwischenliegenden Zwischenraum (10) zur Aufnahme eines Zaunpfostens (12) mit einem Gegenstueck (7) zur Befestigung an der freien Seite der Befestigungsschenkel (4, 5) versehen ist. Ein erfindungsgemaesser Isolator soll seitlich auf einen Zaunpfosten anzubringen und dabei einfach und problemlos in der Handhabung sein. Dies wird erfindungsgemaess dadurch erreicht, dass das Gegenstueck drehfest mit einem Abstandshalter verbunden ist.

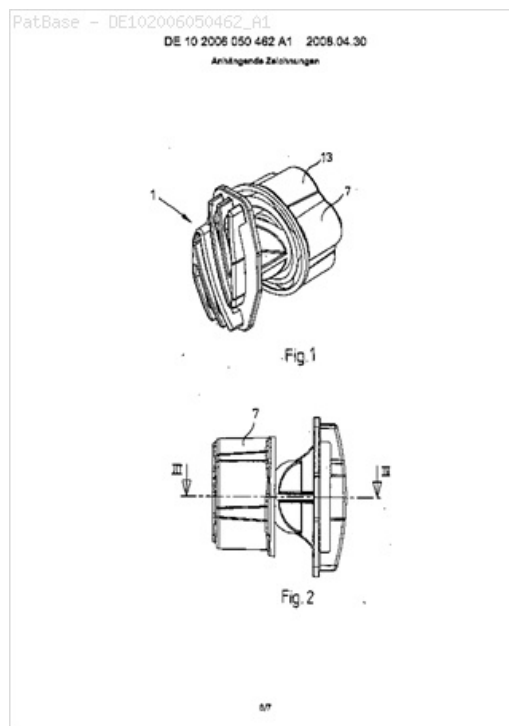
Classifications:

International (IPC 8-9): A01K3/00 H01B17/16 H01B17/20 H01B17/24 H05C1/02 (Advanced/Invention);

A01K3/00 H01B17/00 H01B17/14 H05C1/00 (Core/Invention)

CPC: A01K3/005 H01B17/145 H05C1/00

European: A01K3/00C H01B17/14B H05C1/00



Family:

Publication number	Publication date	Application number	Application date
DE102006050462 A1	20080430	DE200610050462	20061020
DE102006050462 B4	20090129	DE200610050462	20061020
FR2907312 A1	20080425	FR20070007328	20071019
FR2907312 B1	20110318	FR20070007328	20071019

Priority:

DE200610050462 20061020

Probable Assignee: ALBERT KERBL GMBH

Assignee(s): (std): ALBERT KERBL GMBH

Inventor(s): (std): TOBIAS PETER ; PETER TOBIAS

Agent(s): DENNEMEYER AND ASSOCIATES SA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102006050462 A1	20080430	LSPB	+	published / reissued	
DE102006050462 A1	20080430	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102006050462 B4	20090129	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102006050462 B4	20090723	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE102006050462 B4	20261020	PEXP		Calculated Patent Term Expiry	
FR2907312 A1	20080425	LSPB	+	published / reissued	
FR2907312 B1	20110318	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2907312 B1	20151023	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 9

FR2907312 B1	20161020	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 10
FR2907312 B1	20171024	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 11
FR2907312 B1	20181022	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
FR2907312 B1	20191028	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 13
FR2907312 B1	20271019	PEXP		Calculated Patent Term Expiry	

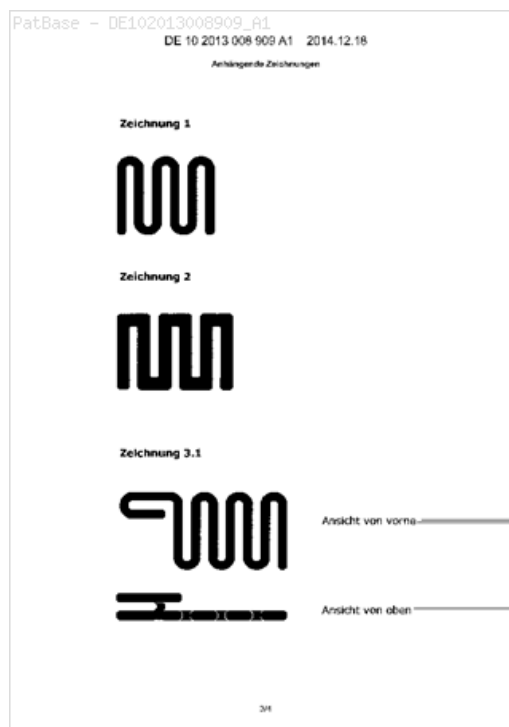
Title: BANDSCHNELLVERBINDER - VORRICHTUNG ZUR VERBINDUNG VON WEIDEZAUNBAENDERN BAND QUICK CONNECTOR - DEVICE FOR CONNECTING WEIDEZAUNBAENDERN (Machine translation)

Abstract: Source: DE102013008909A1 [DE] Bandschnellverbinder – Vorrichtung zur Verbindung von Weidezaunbaendern (zur einfacheren Lesbarkeit im Text nur Bandschnellverbinder genannt) Es handelt sich um eine Vorrichtung zur Verbindung von Weidezaunbaendern. Bei dem bisherigen Stand der Technik ist es notwendig, Weidezaunbaender, die miteinander verbunden oder an Anfang und Ende befestigt/gesichert werden muessen, aufwaendig durch geschlossene oesen/Felder des Bandverbinders einzufaedeln. Bei dem Bandschnellverbinder ist dies nicht erforderlich, was neben der einfacheren und schnelleren Handhabung eine zusaetzliche Funktion, die Verbindung an bestehende Baender, ermoeeglicht. Zur Verbindung zweier Baender werden diese an den Verbindungsstellen (muessen nicht die Enden der Baender sein) uebereinandergelegt und der Bandschnellverbinder in einer wechselseitig oben und unten erfolgenden Slalombewegung eingelegt. Die Wellenform und das abwechselnde Einlegen des Bandes oben und unten verhindert das Herausrutschen des Bandes in diese Richtungen und sichert die stabile Position des Bandes. In erweiterter Funktion mit Haken dient der Bandschnellverbinder als Weidezugang und leitfaehig verbunden zur Spannunsuebertragung zwischen Elektrozaeunen. **Machine translation:** Tape Quick connector - Device for connecting Weidezaunbaendern (for ease of readability in the text only called tape for **assembly**) It is a device for connecting Weidezaunbaendern. In the prior art, it is necessary Weidezaunbaender which must be connected or attached to the beginning and end / secured consuming to thread through closed eyelets / fields of the belt connector. In the tape quick connector, this is not required, in addition to the easier and faster to use an additional function, the connection to existing tapes, made possible. To connect two tapes they are at the connection points (not the ends of the tapes have to be) about each other and inserted the tape quick connector in a mutually taking place up and down movement slalom. The waveform and the alternating loading of the tape top and bottom to prevent slippage of the belt in these directions and ensures the stable position of the tape. In enhanced function with hooks the band quick connector is used as pasture access and conductively connected to Spannunsuebertragung between Elektrozaeunen.

Classifications:

International (IPC 8-9): A01K3/00 (Advanced/Invention)

CPC: A01K3/005 A01K3/00



Family:

Publication number	Publication date	Application number	Application date
DE102013008909 A1	20141218	DE201310008909	20130525

Priority:

DE201310008909 20130525

Probable Assignee:

LINDNER SABINE

Assignee(s): (std):

LINDNER SABINE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102013008909 A1	20141218	LSPB	+	published / reissued	
DE102013008909 A1	20130525	LSLI	R086	NON-BINDING DECLARATION OF LICENSING INTEREST	
DE102013008909 A1	20130610	LSES	+R012	REQUEST FOR EXAMINATION VALIDLY FILED	
DE102013008909 A1	20141107	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	

Title: APPARATUS AND METHOD FOR CONTROLLING AN ANIMAL

Abstract: The present invention is directed toward an apparatus and method for controlling an animal, more typically a horse. The device includes a motorized and programmable actuator that is coupled to a bridle on the horse. The actuator is used to pull the bridle in a manner similar to how reins or a lead rope are used to control a horse. The actuator includes controls mounted directly on the actuator unit. The invention also includes a remote signal unit that sends control signals to the actuator so that a user located remotely from the horse can control the horse.

Classifications:

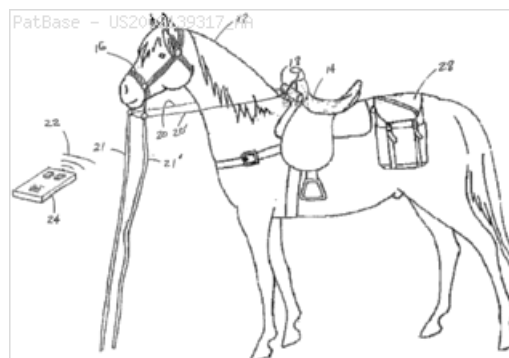
International (IPC 8-9): A01K15/02 (Advanced/Invention);
A01K15/00 (Core/Invention)

International (IPC 1-7): A01K15/02 A01K15/04 A01K37/00

CPC: A01K15/02

European: A01K15/02

US: 119/712 119/720 119/839 54/36 54/71



Family:

Publication number	Publication date	Application number	Application date
US2002139317 AA	20021003	US20010824450	20010402
US2003116102 AA	20030626	US20030366840	20030214
US6725810 BB	20040427	US20030366840	20030214

Priority:

US20010824450 20010402 US20030366840 20030214

Probable Assignee:

RK IND LLC

Assignee(s): (std):

SCHWARTZ WAYNE D

Assignee(s):

RK IND LLC ; RK IND

Inventor(s): (std):

SCHWARTZ WAYNE D

Inventor(s):

WAYNE D SCHWARTZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2002139317 AA	20021003	LSPB	+	published / reissued	
US2002139317 AA	20020812	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RK INDUSTRIES, LLC, KANSAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: SCHWARTZ, WAYNE D.; REEL/FRAME: 013176/0307 EFFECTIVE DATE : 20020404
US2002139317 AA	20030619	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2003116102 AA	20030626	LSPB	+	published / reissued	
US6725810 BB	20040427	LSGT	+	granted / extensions (spc, cpc, pte)	
US6725810 BB	20040408	LSGT	PAT1	Patented Case	
US6725810 BB	20070507	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6725810 BB	20110825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6725810 BB	20160427	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6725810 BB	20160523	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6725810 BB	20160523	LSLE	-STCH	INFORMATION ON STATUS: PATENT	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE

				DISCONTINUATION	FEEs UNDER 37 CFR 1.362
US6725810 BB	20160614	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160427
US6725810 BB	20230214	PEXP		Calculated Patent Term Expiry	

Title: Gate handle for an **electric fence**

Abstract: A tubular plastic casing has a coil spring contained therein. A first rod member is hooked to the spring at one end of the casing, the rod member having a shank extending axially through the spring and outwardly through the opposite end of the casing. A hook is provided on the projecting end of this rod member for releasably engaging a post-mounted anchor. A second rod member, which is reversely bent, has its two adjacent ends hooked to the spring at the other end of the casing, the parallel shanks thereof extending through the spring and outwardly through the said one end of the casing so that the projecting reversely bent end can be attached to a length of **electric fence** wire. The tubular casing has a hand grip portion which is grasped when the gate is to be opened, the moving of the casing toward the gate anchor compressing the coil spring so that the hook on the first rod member can be readily disengaged from the anchor to permit passage through the gate.

Classifications:

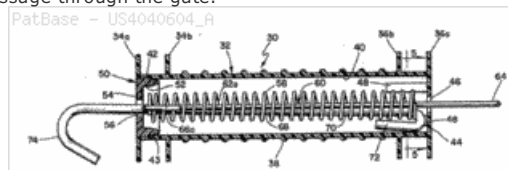
International (IPC 8-9): A01K3/00 (Advanced/Invention);
A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00

CPC: A01K1/0017 A01K3/005

European: A01K1/00A2 A01K3/00C

US: 174/40TD 256/10



Family:

Publication number	Publication date	Application number	Application date
US4040604 A	19770809	US19760672800	19760401

Priority:

US19760672800 19760401

Probable Assignee: BERG JR ALBERT T

Assignee(s): (std): BERG JR ALBERT T ; LANGLIE HOWARD

Inventor(s): (std): LANGLIE HOWARD ; BERG JR ALBERT T

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4040604 A	19770809	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: INFRASTRUCTURE FOR SOLAR POWER INSTALLATIONS

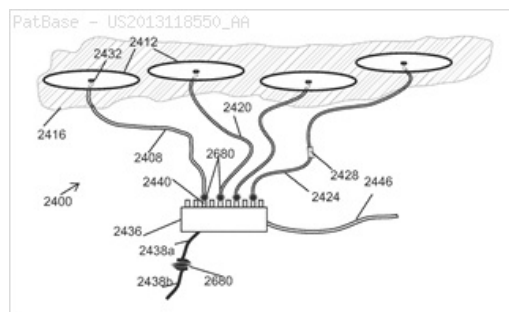
Abstract: The technology provides a plurality of examples for implementing solar cell, solar panels, and solar collection devices on natural looking installations such as faux trees and plants as well as objects mimicking natural ones. The technology allows the installation of solar power generating installations in a distributed manner on land and water. The installation of, for example, artificial plants as carriers of solar cells provides a number of benefits to society in addition to the generation of power. The aesthetics of a community are maintained, while at the same time the need for maintain natural plants is eliminated, providing financial and environmental savings for consumers and municipalities.

Classifications:

International (IPC 8-9): A01K63/06 H01L31/042 H02N6/00 H02S40/38 (Advanced/Invention)

CPC: H01L31/042 H02S40/38 Y02E10/50 A01K63/065

US: 136/246



Family:

Publication number	Publication date	Application number	Application date
AU2012318379 AA	20130411	AU20120318379	20121005
AU2012318379 BB	20160317	AU20120318379	20121005
US2013118550 AA	20130516	US20120646082	20121005
US9730433 BB	20170815	US20120646082	20121005
WO13052921 A2	20130411	WO2012US59134	20121005
WO13052921 A3	20130704	WO2012US59134	20121005

Priority:

US20110545028P 20111007 US20120646082 20121005 WO2012US59134 20121005

Probable Assignee: SAHIN NEDIM T

Assignee(s): (std): SAHIN NEDIM ; SAHIN NEDIM T

Inventor(s): (std): SAHIN NEDIM T ; SAHIN NEDIM

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BURNS AND LEVINSON LLP; JOSEPH M; HSIAO WEBER ET AL

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 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 MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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
AU2012318379 AA	20130411	LSPB	+	published / reissued	
AU2012318379 BB	20160317	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2012318379 BB	20160714	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2012318379 BB	20321005	PEXP		Calculated Patent Term Expiry	
US2013118550 AA	20130516	LSPB	+	published / reissued	
US2013118550 AA	20170417	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2013118550 AA	20170710	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2013118550 AA	20170711	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2013118550 AA	20170726	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US9730433 BB	20170815	LSGT	+	granted / extensions (spc, cpc, pte)	
US9730433 BB	20150930	LSES	NFA1	Non Final Action Mailed	
US9730433 BB	20170726	LSGT	PAT1	Patented Case	

US9730433 BB	20350220	PEXP		Calculated Patent Term Expiry (PTA 868 days)	
WO13052921 A2	20130411	LSPB	+	published / reissued	
WO13052921 A3	20140407	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2014534809 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13052921 A3	20140529	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2012318379 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20121005 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO13052921 A3	20140812	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : JP
WO13052921 A3	20141029	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12838730 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: Stock drafting device

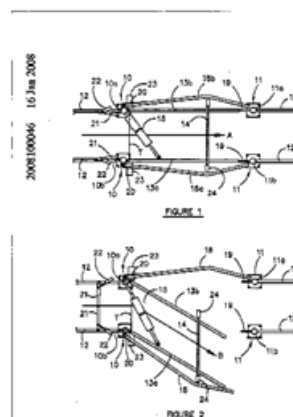
Abstract: A device in the form of a station for separating animals into two or more groups, the station capable of being used in association with an animal corral or other livestock holding equipment including vehicles for transporting livestock. The station includes: an entrance through which animals can enter the station; two or more exits through which animals can exit the station and thereby be directed into separate groups; a first moveable obstruction means that can be operated to selectively open and close the entrance of the station so as to allow an animal to enter the station; a second moveable obstruction means that can be operated to selectively open and close the exits so as to allow an animal to exit the station from one of the exits; a first detecting means for detecting when an animal has entered the station by passing through the entrance; and a second detecting means for detecting when an animal has exited the station by passing through one of the exits.

Classifications:

International (IPC 8-9): A01K1/00 A01K15/04 (Advanced/Invention);
A01K1/00 A01K15/00 (Core/Invention)

International (IPC 1-7): A01K1/00 A01K15/04

PatBase - AU2008100046_BD



Family:

Publication number	Publication date	Application number	Application date
AU2003902627 A0	20030612	AU2003902627	20030527
AU2004202081 AA	20041216	AU2004202081	20040517
AU2004202081 BB	20100812	AU2004202081	20040517
AU2007100391 AE	20070614	AU20070100391	20070515
AU2008100046 AD	20080403	AU20080100046	20080116
AU2008100046 BD	20081002	AU20080100046	20080116
NZ533072 A	20040924	NZ20040533072	20040519

Priority:

AU2003902627 20030527 AU2004202081 20040517 AU20070100391 20070515
AU20080100046 20080116

Probable Assignee: PAUL SHEWEN AND CO PTY LTD

Assignee(s): (std): LIVESTOCK IMPROVEMENT CORP LTD ; LIVESTOCK IMPROVEMENT LTD CORP ; PAUL SHEWEN AND CO PTY LTD

Inventor(s): (std): SHEWEN JOSEPHINE ; SHEWEN PAUL

Inventor(s): PAUL SHEWEN

Agent(s): BALDWIN'S INTELLECTUAL PROPERTY; JAMES AND WELLS INTELLECTUAL PROPERTY; GRIFFITH HACK

Legal status (INPADOC)

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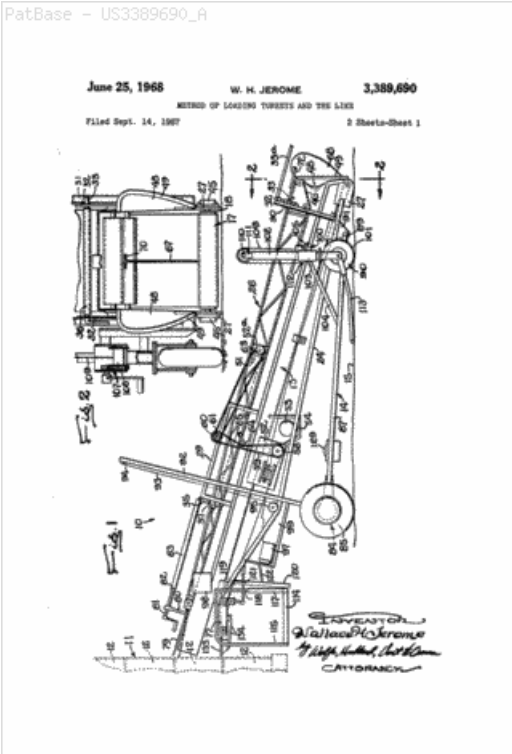
Patent	Date recorded	Event group	Code	Event	Details
AU2004202081 AA	20041216	LSPB	+	published / reissued	
AU2004202081 AA	20100729	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : LIVESTOCK IMPROVEMENT CORPORATION LIMITED OLDPARTY : FORMER APPLICANT(S): PAUL SHEWEN & CO PTY LTD

AU2004202081 BB	20100812	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2004202081 BB	20101209	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2004202081 BB	20240517	PEXP		Calculated Patent Term Expiry	
AU2007100391 AE	20070614	LSPB	+	published / reissued	
AU2007100391 AE	20070705	LSGT	+FGI	LETTERS PATENT SEALED OR GRANTED (INNOVATION PATENT)	
AU2007100391 AE	20080124	LSLE	-MK21	PATENT CEASED SECTION 101C(B)/SECTION 143A(C)/REG. 9A.4 - EXAMINATION UNDER SECTION 101B HAD NOT BEEN CARRIED OUT WITHIN THE PERIOD PRESCRIBED	
AU2008100046 AD	20080403	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2008100046 AD	20080403	LSGT	+FGI	LETTERS PATENT SEALED OR GRANTED (INNOVATION PATENT)	
AU2008100046 AD	20280116	PEXP		Calculated Patent Term Expiry	
AU2008100046 BD	20081002	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2008100046 BD	20081002	LSGT	+FF	CERTIFIED INNOVATION PATENT	
AU2008100046 BD	20100729	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : LIVESTOCK IMPROVEMENT CORPORATION LIMITED OLDPARTY : FORMER OWNER WAS: PAUL SHEWEN & CO PTY LTD
AU2008100046 BD	20120607	LSLE	-MK22	PATENT CEASED SECTION 143A(D), OR EXPIRED - NON PAYMENT OF RENEWAL FEE OR EXPIRY	
AU2008100046 BD	20280116	PEXP		Calculated Patent Term Expiry	
NZ533072 A	20040924	LSPB	+	published / reissued	
NZ533072 A	20050128	LSGT	+PSEA	PATENT SEALED	
NZ533072 A	20080731	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ533072 A	20100827	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : LIVESTOCK IMPROVEMENT CORPORATION LIMITED, NZ OLDPARTY : OLD OWNER(S): PAUL SHEWEN AND CO PTY LTD
NZ533072 A	20110826	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ533072 A	20140530	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 19 MAY 2017 BY BALDWIN'S INTELLECTUAL PROPERTY EFFECTIVE DATE : 20140509
NZ533072 A	20140829	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 7 YEARS UNTIL 19 MAY 2024 BY BALDWIN'S INTELLECTUAL PROPERTY EFFECTIVE DATE : 20140819

Title: Method of loading turkeys and the like

Abstract: ABSTRACT OF THE DISCLOSURE
A method of loading turkeys and the like with a conveyor comprising two interfiling U-shaped troughs providing an enclosed passage with a conveyor belt supported on the lower trough to carry poultry through the passage and a hold-down belt supported on the upper trough to cooperate with the lower belt in carrying poultry through the passage. The upper trough is supported for selective adjustment relative to the lower trough to vary the height of the passage and the hold-down belt is driven at a faster speed than the conveyor belt to maintain the poultry in sitting positions. The chute is supported on a frame for selective adjustment of the height of the upper or discharge end with a cable and drum arrangement, and an operator platform is pivoted on the chute adjacent the discharge end and maintained horizontal during adjustment of the angle of the chute. Pivoted on the chute above the discharge end and extending outwardly therefrom is an angularly adjustable grid covering the path of poultry leaving the chute. The passage is divided longitudinally into two sections by a central plate. Turkeys are loaded into the lower end of the chute, urged into a sitting position by the hold-down belt, and maintained quietly in the sitting position as a result of the unbalancing effect of this belt. B

Classifications:
International (IPC 8-9): A01K45/00 (Advanced/Invention);
A01K45/00 (Core/Invention)
International (IPC 1-7): A01K29/00
CPC: A01K45/005
European: A01K45/00B
US: 119/82 119/846 198/804



Family:

Publication number	Publication date	Application number	Application date
US3389690 A	19680625	US19670667802	19670914

Priority:
US19670667802 19670914

Probable Assignee: JEROME FOODS
Assignee(s): (std): JEROME FOODS ; WALLACE H JEROME
Inventor(s): (std): JEROME WALLACE H

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3389690 A	19680625	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Wash system, apparatus and method for a rotary milking apparatus

Abstract: A rotary milking apparatus having a rotating support structure having a plurality of milking stations, each having a milking unit and a wash unit. Each wash unit has a washing connecting device positioned to travel in a circumferential path of travel through a washing location. There is a wash control valve for each wash unit having a first location to cause milk to be delivered from the milking unit to a collecting location, and a second position to enable wash liquid to be delivered to the milking unit. There is a single wash liquid supply section having a nozzle which travels in an arcuate back and forth pass to travel to connect to the connecting device of each wash unit. The wash liquid supply section delivers wash liquid individually to each wash unit as it passes through the wash location.

Classifications:

International (IPC 8-9): A01J5/017 A01J7/04

A01K1/12 (Advanced/Invention);

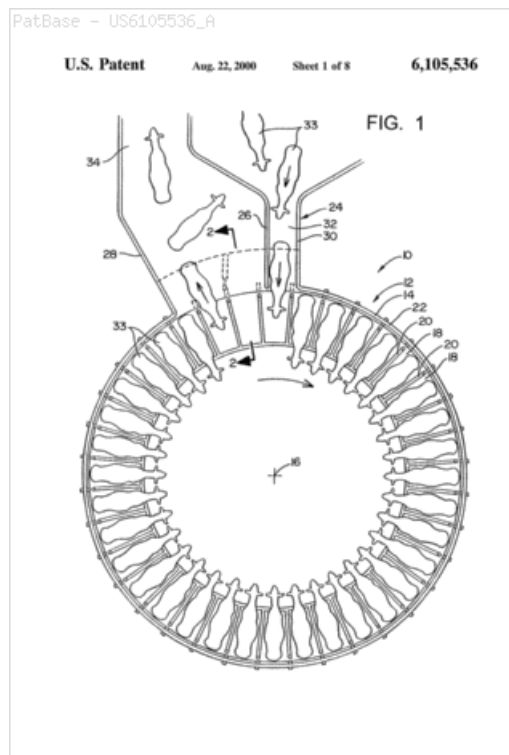
A01J5/00 A01J7/00 A01K1/00 (Core/Invention)

International (IPC 1-7): A01J3/00

CPC: A01J5/0175 A01J7/022 A01J7/04 A01K1/126

European: A01J5/017A A01J7/02 A01J7/02C A01J7/04 A01K1/12B

US: 119/14.04 119/14.18



Family:

Publication number	Publication date	Application number	Application date
US6105536 A	20000822	US19980122482	19980723

Priority:

US19980083561P 19980429 US19980122482 19980723

Probable Assignee: DARITECH INC

Assignee(s): (std): DEWAARD DAVE

Assignee(s): DARITECH INC

Inventor(s): (std): DEWAARD DAVE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6105536 A	20000822	LSGT	+	granted / extensions (spc, cpc, pte)	
US6105536 A	20000803	LSGT	PAT1	Patented Case	
US6105536 A	20000803	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6105536 A	20040220	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6105536 A	20080221	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6105536 A	20100721	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DARITECH, INC., WASHINGTON OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DEWAARD, DAVE; REEL/FRAME:024723/0032

EFFECTIVE DATE : 20100719

US6105536 A	20120203	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
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US6105536 A	20180723	PEXP		Calculated Patent Term Expiry	
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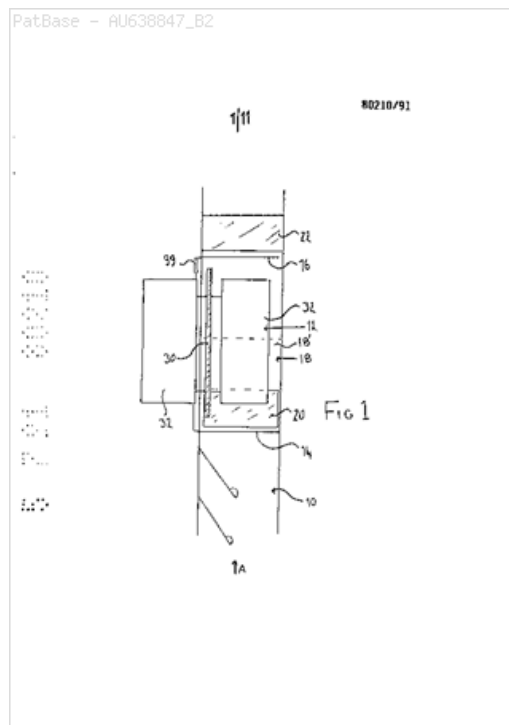
Title: Animal handler

Abstract: 1. An animal handler comprising, at least one clamping means for clamping an animal, sensing means for sensing when an animal has arrived at a clamping station and for actuating said clamping means to clamp the animal at that station, inverting means for moving the clamping means so that the animal is inverted and for moving the clamping means again to reinvert the sheep for release from the clamping means. An animal prompting device for prompting an animal along a race, said device comprising at least one prompting unit having: an abutment element for movement into said race for location behind a sheep to abut said sheep and prompt said sheep along said race, engaging means on said unit for engaging said race and allowing said unit to move along said race, moving means for engaging said unit and for moving said element into said race and for moving said unit along said race in a first direction to thereby prompt an animal along said race, and return means for returning said unit in a direction opposite to said movement.

Classifications:

International (IPC 8-9): A01F15/00 A01K15/04 (Advanced/Invention);
A01F15/00 A01K15/00 (Core/Invention)

International (IPC 1-7): A01F15/00 A01K15/04



Family:

Publication number	Publication date	Application number	Application date
AU199180210 A1	19920116	AU19910080210	19910705
AU638847 B2	19930708	AU19910080210	19910705

Priority:

AU19900001138 19900712 AU1990PK01138 19900712 AU19910080210 19910705

Probable Assignee:

DAVID E RENTSCH

Assignee(s): (std):

DAVID E RENTSCH

Assignee(s):

RENTSCH DAVID E

Inventor(s): (std):

RENTSCH DAVID E

Inventor(s):

DAVID E RENTSCH

Agent(s):

GRIFFITH HACK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199180210 A1	19920116	LSPB	+	published / reissued	
AU638847 B2	19930708	LSGT	+	granted / extensions (spc, cpc, pte)	
AU638847 B2	20110705	PEXP		Calculated Patent Term Expiry	

Title: WIRE OR LIKE CONNECTORS/TENSIONERS

Abstract: A method of connecting an **electric fence** wire (30) to a post (27) comprises providing a wire connector (10) of the type having a body (11) within which twin bores (15A, 15B) are each associated with wedging means (12A, 12B), together with a non-electrically-conducting filament (19), the filament being looped round the post and having a free end (21) inserted into one of the bores, pushed through and pulled for setting of the proximity of the connector (10) to the post (27), then an end (29) of the electrical **fence** wire (30) is inserted into the other bore, pushed through and pulled to tension the **fence** wire and also the filament looped round the post. The filament (19) may extend fixedly from the body (11) of the connector (10) or it may be provided with a small loop (41) through which the free end (21) of the filament is passed after looping round the post (27) and before insertion into the connector.

Classifications:

International (IPC 8-9): A01K3/00 E04H17/10 F16G11/04 F16G11/10

F16G11/12 H01B17/14 (Advanced/Invention);

A01K3/00 E04H17/02 F16G11/00 H01B17/14 (Core/Invention);

A01K E04H F16G H01B (Subclass/Invention)

International (IPC 1-7): A01K A01K3/00 E04H E04H17/10 F16B2/16 F16G

F16G11/04 F16G11/10 F16G11/12 H01B H01B17/14

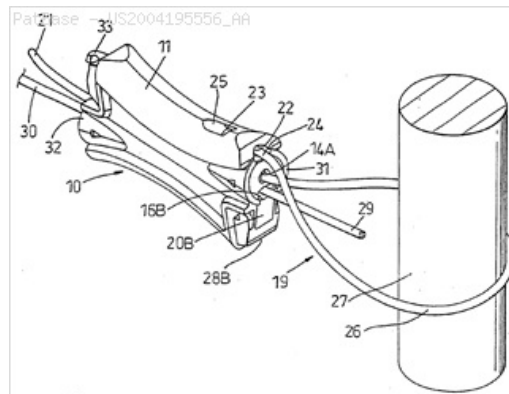
CPC: F16G11/02 F16G11/106 A01K3/005 F16G11/14

European: A01K3/00C F16G11/04 F16G11/10

US: 256/1 256/10

JP F-Term: 3J061

JP F-Index: F16G11/12/G



Family:

Publication number	Publication date	Application number	Application date
AT299563 E	20050715	AT20020749044T	20020717
AU2002319459 AA	20030217	AU20020319459	20020717
AU2002319459 BB	20070125	AU20020319459	20020717
BRPI0210889 A	20040622	BR2002PI10889	20020717
CA2453640 AA	20040113	CA20022453640	20020717
DE60205028 D1	20050818	DE20026005028T	20020717
DE60205028 D1	20050818	DE20026005028	20020717
DE60205028 T2	20060601	DE20026005028T	20020717
DK1412658 T3	20051017	DK20020749044T	20020717
EP1412658 A1	20040428	EP20020749044	20020717
EP1412658 B1	20050713	EP20020749044	20020717
ES2243747 T3	20051201	ES20020749044T	20020717
GB200118717 A0	20010926	GB20010018717	20010801
GB200126178 A0	20020102	GB20010026178	20011101
GB200130426 A0	20020206	GB20010030426	20011220
GB2378213 A1	20030205	GB20010030426	20011220
GB2378213 B2	20040114	GB20010030426	20011220
JP2004537691 T2	20041216	JP20030517470T	20020717
MXPA03011996 A1	20040326	MX2003PA11996	20020717
NZ530224 A	20041126	NZ20020530224	20020717
PT1412658 T	20051031	PT20020749044T	20020717
US2004195556 AA	20041007	US20040485080	20040126
WO03012316 A1	20030213	WO2002GB03347	20020717
ZA200400657 A	20041012	ZA20040000657	20040127

Priority:

GB20010018717 20010801 GB20010026178 20011101 WO2002GB03347 20020717

Probable Assignee: GRIPPLE LTD

Assignee(s): (std): BOALER DEREK ; FACEY HUGH DAVID ; GEORGES RHOADES ANTHONY DAVID ; GRIPPLE LIMITED ; GRIPPLE LTD ; RHOADES ANTHONY DAVID GEORGE

Assignee(s): GRIPPLE LTD SHEFFIELD

Inventor(s): (std): RHOADES ANTHONY DAVID GEORGE ; GEORGES RHOADES ANTHONY DAVID ; GEORGE RHOADES ANTHONY DAVID ; RHOADES DAVID ; DEREK BOALER ; ANTHONY DAVID GEORGE RHOADES ; RHOADES ANTHONY DAVID GEORGE ; BOALER DEREK ; FACEY HUGH DAVID ; HUGH DAVID FACEY

Inventor(s): ANTHONY DAVID GEORGE RHOADES

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; ROBIC

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 US UZ VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT299563 E	20050715	LSGT	+	granted / extensions (spc, cpc, pte)	
AT299563 E	20060115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT299563 E	20220717	PEXP		Calculated Patent Term Expiry	
AU2002319459 AA	20030217	LSPB	+	published / reissued	
AU2002319459 BB	20070125	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2002319459 BB	20070524	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2002319459 BB	20080306	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2002319459 BB	20220717	PEXP		Calculated Patent Term Expiry	
BRPI0210889 A	20040622	LSPB	+	published / reissued	
BRPI0210889 A	20091124	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	TEXT : REFERENTE A 5A,6A E 7A ANUIDADES.
BRPI0210889 A	20110208	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : REFERENTE AO DESPACHO 8.6 DA RPI 2029 DE 24/11/2009.
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DE60205028 D1	20060803	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
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EP1412658 A1	20040428	LSPB	+	published / reissued	
EP1412658 A1	20040428	LSSES	+17P	REQUEST FOR EXAMINATION	EFFECTIVE DATE : 20031204

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EP1412658 B1	20070504	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20070330
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EP1412658 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOF LAPSE : LAPSE

				STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20060731
EP1412658 B1	20080630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050717
EP1412658 B1	20090930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20070717
EP1412658 B1	20220717	PEXP		Calculated Patent Term Expiry	
ES2243747 T3	20051201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2243747 T3	20220717	PEXP		Calculated Patent Term Expiry	
GB200118717 A0	20021009	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
GB200126178 A0	20030319	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
GB2378213 A1	20030205	LSPB	+	published / reissued	
GB2378213 B2	20040114	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2378213 B2	20070829	LSLE	-PCNP	PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20061220
GB2378213 B2	20211220	PEXP		Calculated Patent Term Expiry	
JP2004537691 T2	20041216	LSPB	+	published / reissued	
JP2004537691 T2	20050513	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20050512
JP2004537691 T2	20061220	LSWD	-A761	WRITTEN WITHDRAWAL OF APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A761 EFFECTIVE DATE : 20061219
MXPA03011996 A1	20040326	LSPB	+	published / reissued	
NZ530224 A	20041126	LSPB	+	published / reissued	
NZ530224 A	20050324	LSGT	+PSEA	PATENT SEALED	
PT1412658 T	20051031	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1412658 T	20220717	PEXP		Calculated Patent Term Expiry	
US2004195556 AA	20041007	LSPB	+	published / reissued	
US2004195556 AA	20040520	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GRIPPLE LIMITED, ENGLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FACEY, HUGH DAVID; BOALER, DEREK; RHOADES, ANTHONY

US2004195556 AA	20051027	LSWD	-EAB1	Expressly Abandoned -- During Examination	
WO03012316 A1	20030213	LSPB	+	published / reissued	
WO03012316 A1	20031204	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002749044 COUNTRY OF REF DOCUMENT : EP
WO03012316 A1	20031217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 530224 COUNTRY OF REF DOCUMENT : NZ
WO03012316 A1	20031219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002319459 COUNTRY OF REF DOCUMENT : AU
WO03012316 A1	20031219	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : PA/A/2003/011996 COUNTRY OF REF DOCUMENT : MX
WO03012316 A1	20040113	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2453640 COUNTRY OF REF DOCUMENT : CA
WO03012316 A1	20040126	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10485080 COUNTRY OF REF DOCUMENT : US
WO03012316 A1	20040127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200400657 COUNTRY OF REF DOCUMENT : ZA
WO03012316 A1	20040127	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004/00657 COUNTRY OF REF DOCUMENT : ZA
WO03012316 A1	20040130	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2003517470 COUNTRY OF REF DOCUMENT : JP
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WO03012316 A1	20040609	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO03012316 A1	20041126	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 530224 COUNTRY OF REF DOCUMENT : NZ
WO03012316 A1	20050310	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 530224 COUNTRY OF REF DOCUMENT : NZ
WO03012316 A1	20050713	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002749044 COUNTRY OF REF DOCUMENT : EP
ZA200400657 A	20041012	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200400657 A	20240126	PEXP		Calculated Patent Term Expiry	

Title: **ELECTRIC FENCE** CABLE **ASSEMBLY**

Abstract: An improvement in electrified cable **assemblies** for use with electrically charged **fences** is disclosed. The improvement provides for a dual conductor insulated cable having a plurality of longitudinally spaced contacts mounted thereon with alternate contacts being connected to one of the conductors and the remaining contacts being connected to the remaining conductor, wherein one conductor is electrically connected to a **fence** charger and the remaining conductor is electrically connected to ground.

Classifications:

International (IPC 8-9): A01K3/00 (Advanced/Invention);

A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00

Family:

Publication number	Publication date	Application number	Application date
CA1106910 A1	19810811	CA19790320925	19790206

Priority:

CA19790320925 19790206

Probable Assignee: CRIST V WILLIAM

Assignee(s): (std): CRIST V WILLIAM

Assignee(s): CRIST V WILLIAM JR

Inventor(s): (std): CRIST V WILLIAM JR

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Legal status (INPADOC)

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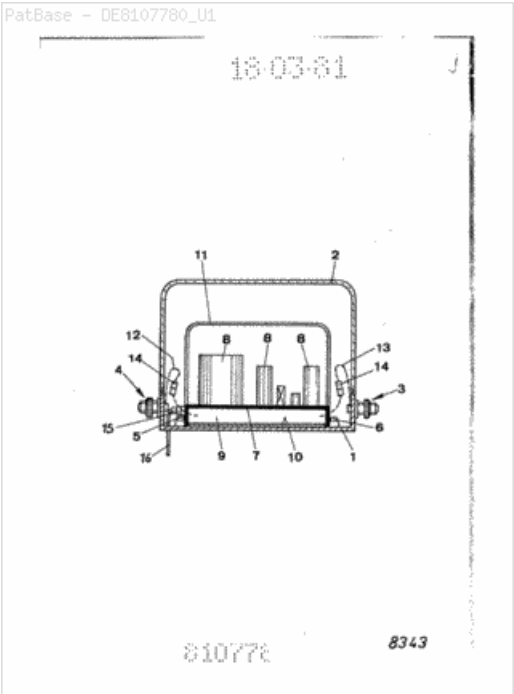
No INPADOC legal status information found.

Title: ELEKTRO-WEIDEZAUNGERAET ELECTRICAL PASTURE **FENCE** EQUIPMENT (Machine translation)

Abstract: Source: DE8107780U1 [DE] (Claim 1) 1. Elektro-'. "eidezaungeraet gekennzeichnet durch, ein aeusseres, am Einsatzort installierbares Aussengehaeuse4 in der ein die elektrischen Funktionsteile (8) enthaltendes separates Innengehaeuse auswechselbar befestigt ist.

Machine translation: (Claim 1) 1 **Electric** '. "Eidezaungeraet characterized in an outward, on-site installable Aussengehaeuse4 in the electrical function of the one part (8) containing separate attached Innengehaeuse replaceable.

Classifications:
International (IPC 8-9): A01K3/00 H05C1/06 (Advanced/Invention);
A01K3/00 H05C1/00 (Core/Invention)
International (IPC 1-7): A01K3/00 H05C1/06



Family:

Publication number	Publication date	Application number	Application date
DE8107780 U1	19810827	DE19810007780U	19810318

Priority:
DE19810007780U 19810318

Probable Assignee: BUESCHEN WALTER 2902 RASTEDE DE
Assignee(s): BUESCHEN WALTER 2902 RASTEDE DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE8107780 U1	19810827	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Pigsty for premature weaning and sucking transition.

Abstract: This invention consists of a closed enclosure (1) with thermal-insulator walls, made of immovable, connected panels (2). The closed enclosure (1) has a front access door (3) that has an automatically controlled upper gate (4) and a manual lower gate (5). The inside of the enclosure is divided by a fence (12) into two small pens (1, 1a) each with both doors (14). The roof of the enclosure has an air pump (19) with a fan (20). The floor (11) is made of trellis and has lower exits (22) to dispel air. Furthermore, the closed enclosure (1) has its own lighting circuit (25), water and electricity facilities (26), interior tanks (24) with conventional connectors that make modular components when connected together. It is designed to avoid output loss, i.e. death, when premature weaning occurs.

Classifications:

International (IPC 8-9): A01K1/02 E06B7/02

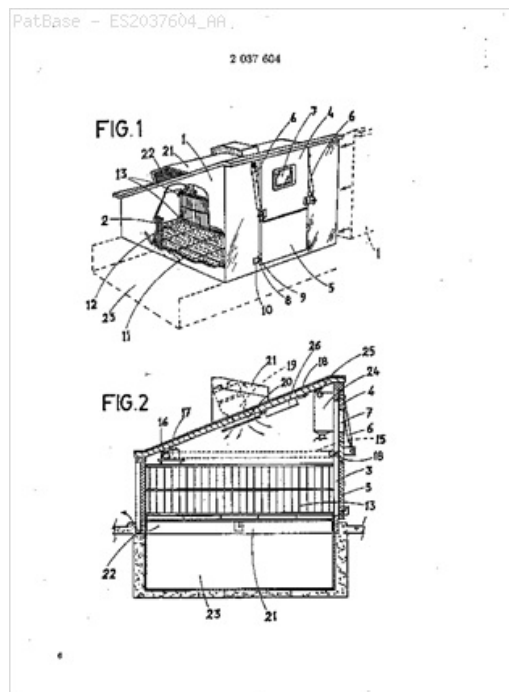
G05D23/19 (Advanced/Invention);

A01K1/02 E06B7/02 G05D23/19 (Core/Invention)

International (IPC 1-7): A01K1/02 E06B7/02 G05D23/19

CPC: A01K1/0076 A01K1/0218

European: A01K1/00D5 A01K1/02B



Family:

Publication number	Publication date	Application number	Application date
ES2037604 AA	19930616	ES19910002492	19911111
ES2037604 BA	19940401	ES19910002492	19911111
ES2091151 AA	19961016	ES19930002470	19931125
ES2091151 BA	19970516	ES19930002470	19931125
ES2151345 AA	20001216	ES19970000773	19970411
ES2151345 BA	20010816	ES19970000773	19970411

Priority:

ES19910002492 19911111

Probable Assignee: ROCA MASGRAU JOSEP

Assignee(s): (std): ROCA MASGRAU JOSEP

Inventor(s): (std): ROCA MASGRAU JOSEP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2037604 AA	19930616	LSPB	+	published / reissued	
ES2037604 BA	19940401	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2037604 BA	20141120	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20141120
ES2037604 BA	20111111	PEXP		Calculated Patent Term Expiry	
ES2091151 AA	19961016	LSPB	+	published / reissued	
ES2091151 AA	19961016	LSSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 19961016 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) : EFFECTIVE DATE : 19961016

ES2091151 AA	19961116	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 19961016 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) : EFFECTIVE DATE : 19961016
ES2091151 BA	19970516	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2091151 BA	20141120	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20141120
ES2091151 BA	20131125	PEXP		Calculated Patent Term Expiry	
ES2151345 AA	20001216	LSPB	+	published / reissued	
ES2151345 AA	20001216	LSES	+EC2A	SEARCH REPORT PUBLISHED	DATE OF REF DOCUMENT : 20001216 KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20001216
ES2151345 BA	20010816	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2151345 BA	20141120	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20141120
ES2151345 BA	20170411	PEXP		Calculated Patent Term Expiry	

Title: **ELECTRIC FENCE** WITH VARIABLE ENERGY

Abstract: The method for generating pulses for a **fence** electrifier according to the invention ensures the regular sending of pulses of rather low power, so as to economise on energy from the source, and the sending of much more powerful pulses after a certain predetermined number n of low energy pulses in order to bring about the retreat of the animal and fear of the electrified wire.

Classifications:

International (IPC 8-9): H05C 1/04 (Advanced/Invention);
H05C 1/00 (Core/Invention)

International (IPC 1-7): A01K3/00 H02M9/04 H05C1/04

CPC: H05C1/04

European: H05C1/04

PatBase - EP0454543_A1

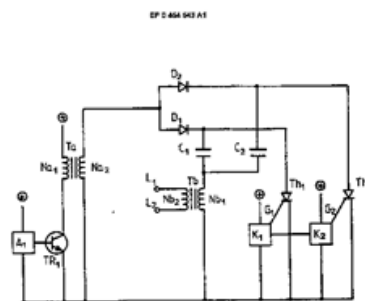


Fig 1

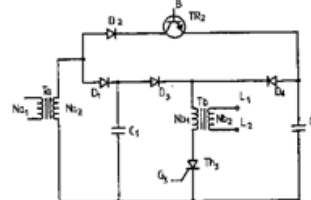


Fig 2

Family:

Publication number	Publication date	Application number	Application date
AT112439 E	19941015	AT19910401013T	19910417
DE69104259 D1	19941103	DE19916004259	19910417
DE69104259 T2	19950524	DE19916004259T	19910417
EP0454543 A1	19911030	EP19910401013	19910417
EP0454543 B1	19940928	EP19910401013	19910417
FR2661589 A1	19911031	FR19900005247	19900425
FR2661589 B1	19931217	FR19900005247	19900425

Priority:

FR19900005247 19900425

Probable Assignee: RHOMER BRIGITTE

Assignee(s): (std): HAMM JEAN JACQUES ; RHOMER BRIGITTE

Assignee(s): RHOMER BRIGITTE LA FLECHE SARTHE FR ; HAMM JEAN JACQUES LA FLECHE FR

Inventor(s): (std): JEAN JACQUES HAMM ; HAMM JEAN JACQUES

Inventor(s): HAMM JEAN JACQUES F 72200 LA FLECHE FR

Designated states: AT BE CH DE FR LI NL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT112439 E	19941015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT112439 E	19950515	LSPB	+UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION	
AT112439 E	20030115	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT112439 E	20110417	PEXP		Calculated Patent Term Expiry	
DE69104259 D1	19951026	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69104259 D1	20100218	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	

DE69104259 T2	19950524	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69104259 T2	19951026	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69104259 T2	20100218	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69104259 T2	20110417	PEXP		Calculated Patent Term Expiry	
EP0454543 A1	19911030	LSPB	+	published / reissued	
EP0454543 A1	19920304	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19911213
EP0454543 A1	19931110	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19930923
EP0454543 A1	19940907	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : RHOMER, BRIGITTE
EP0454543 B1	19940928	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0454543 B1	19950920	LSGT	+26N	NO OPPOSITION FILED	
EP0454543 B1	20010417	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20010417 YEAR OF FEE PAYMENT : 11
EP0454543 B1	20010427	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20010427 YEAR OF FEE PAYMENT : 11
EP0454543 B1	20010427	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20010427 YEAR OF FEE PAYMENT : 11
EP0454543 B1	20010430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20010430 YEAR OF FEE PAYMENT : 11
EP0454543 B1	20020417	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020417
EP0454543 B1	20020430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20020430
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EP0454543 B1	20021101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF

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EP0454543 B1	20030106	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20021101
EP0454543 B1	20080731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20080418 YEAR OF FEE PAYMENT : 18
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EP0454543 B1	20100730	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20100506 YEAR OF FEE PAYMENT : 20
EP0454543 B1	20110417	PEXP		Calculated Patent Term Expiry	
FR2661589 A1	19911031	LSPB	+	published / reissued	
FR2661589 B1	19931217	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2661589 B1	19970124	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2661589 B1	20100425	PEXP		Calculated Patent Term Expiry	

Title: PLASTIC, T-SHAPED **FENCE** POST

Abstract: A plastic **fence** post for use in **electric fences**, which can be quickly and easily adjusted in height to permit changes in the height of the **fence**, and which can be used with different types of **fence** strands. The **fence** post includes an elongated, T-shaped plastic lower post member having one end adapted for insertion into the ground and an opposite end having a T-shaped slot formed therein. A plastic upper member, which can either be an upper **fence** post or a post cap, includes a T-shaped tongue extending therefrom that is secured within the T-shaped slot so as to secure the upper member to the lower post member. A pin extends through aligned holes in the end of the lower post member and the T-shaped tongue in order to fasten the upper and lower members together. The height of the **fence** can be increased by disposing the tongue of the upper **fence** post within the T-shaped slot, and using the pin to secure the posts together. When the height of the **fence** post **assembly** is not to be increased, the **fence** post cap is disposed within the T-shaped slot and secured by the pin. In each embodiment, the T-shaped slot, T-shaped tongue, and pin provide a fast and easy way to permit adjustments to the height of the **fence**.

Classifications:

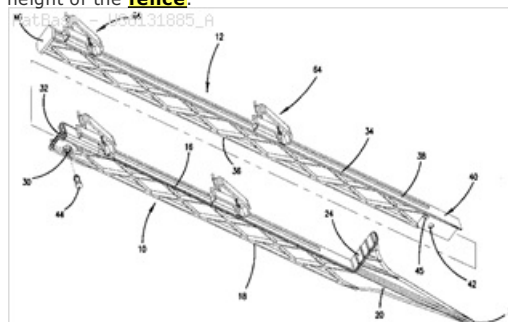
International (IPC 8-9): A01K3/00 E01F13/02 E01F9/011 E04H12/22 E04H17/08 E04H17/12 (Advanced/Invention); E01F13/00 E01F9/011 E04H12/22 E04H17/02 (Core/Invention)

International (IPC 1-7): A01K3/00 E04H17/08 E04H17/10 E04H17/12

CPC: E01F9/685 E04H17/003 E01F13/028 E04H12/2215 E04H17/12

European: E01F13/02D E01F9/011F6 E04H12/22A1 E04H17/00A E04H17/12

US: 174/158F 256/10 256/19 256/54



Family:

Publication number	Publication date	Application number	Application date
CA2242138 AA	19990211	CA19982242138	19980810
US6131885 A	20001017	US19970909286	19970811

Priority:

US19970909286 19970811 CA19982242138 19980810

Probable Assignee: WATERS INSTRUMENTS INC

Assignee(s): (std): NORTH CENTRAL PLASTICS INC

Assignee(s): WATERS INSTRUMENTS INC ; BERG JON A ; BUELOW DAVID F ; LANGLIE RONALD H

Inventor(s): (std): BUELOW DAVID F ; LANGLIE RONALD H ; BERG JON A

Agent(s): ROBIC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2242138 AA	19990211	LSPB	+	published / reissued	
CA2242138 AA	20040810	LSLE	-FZDE	DEAD	
US6131885 A	20001017	LSGT	+	granted / extensions (spc, cpc, pte)	
US6131885 A	19980115	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NORTH CENTRAL PLASTICS, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BERG, JON A.; LANGLIE, RONALD H.; BUELOW, DAVID F.; REEL/FRAME:008926/0044 EFFECTIVE DATE : 19970926
US6131885 A	20010827	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WATERS INSTRUMENTS, INC., MINNESOTA OLDPARTY : MERGER; ASSIGNOR:NORTH CENTRAL PLASTICS, INCORPORATED; REEL/FRAME:012110/0163 EFFECTIVE DATE : 20010806
US6131885 A	20030609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WATERS INSTRUMENTS, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NORTH CENTRAL PLASTICS, INCORPORATED; REEL/FRAME:014146/0693

EFFECTIVE DATE : 20010709					
US6131885 A	20041018	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6131885 A	20041117	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6131885 A	20041117	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6131885 A	20041214	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20041017
US6131885 A	20170811	PEXP		Calculated Patent Term Expiry	

Title: APPARATUS FOR PREVENTING ENTANGLEMENT OF MULTIPLE LINES FED FROM SEPARATE REELS

Abstract: An apparatus for preventing entanglement of lines fed from separate reels has at least two reels mounted on separate axles. A separate line is wound around each reel. Each axle is mounted on one of at least two rotatable split shaft members. Each split shaft member is connected to one of at least two non-rotating controls by means of one of at least two non-rotating brake rods, arranged such that operating one or another of said controls results in one or another of said reels being made to contact a fixed portion of the apparatus and brought to a halt or, if already halted, released and positioned so as to permit the line wound thereon to resume being fed out. The lines, each of which is separately fed out and retracted onto a respective one of the reels, are fed through holes formed in a faceplate mounted on one end of the assembled said split shaft members such that crossing of the lines tends to cause said faceplate, along with the split shaft members and the two reels, to rotate and disentangle said lines. One embodiment is a pet leash apparatus for exercising two or more pets.

Classifications:

International (IPC 8-9): A01K27/00 B65H75/30 B65H75/34 B65H75/40

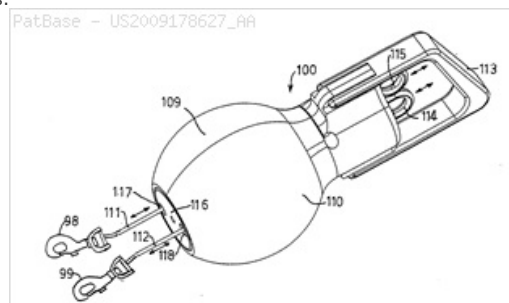
B65H75/44 (Advanced/Invention);

A01K27/00 B65H75/34 (Core/Invention)

CPC: A01K27/004 B65H75/406 B65H75/4402

European: A01K27/00C1 B65H75/40B B65H75/44B

US: 119/796 242/388.6 242/388.600P 242/388.600S



Family:

Publication number	Publication date	Application number	Application date
US2009178627 AA	20090716	US20080008701	20080111
US2011163195 AA	20110707	US20090522348	20090112
US7980202 BB	20110719	US20080008701	20080111
US9016242 BB	20150428	US20090522348	20090112
WO09089071 A1	20090716	WO2009US00186	20090112

Priority:

US20080008701 20080111 US20090522348 20090112 WO2009US00186 20090112

Probable Assignee: BENTZ CHRISTOPHER KENT MR

Assignee(s): (std): BENTZ CHRISTOPHER ; BENTZ CHRISTOPHER KENT ; CHISTOPHER KENT BENTZ ; PETERSEN WESTON ; ITZ GARET ; PARKS BENTZ IP HOLDINGS LLC

Assignee(s): CHRISTOPHER KENT BENTZ ; BENTZ CHRISTOPHER KENT MR

Inventor(s): (std): PETERSEN WESTON ; ITZ GARET ; BENTZ CHRISTOPHER KENT ; BENTZ CHRISTOPHER

Agent(s): VENABLE LLP; MICHAEL A; STEVEN J; SCHWARZ STEVEN J

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2009178627 AA	20090716	LSPB	+	published / reissued	
US2011163195 AA	20110707	LSPB	+	published / reissued	
US2011163195 AA	20110831	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PARKS/BENTZ IP HOLDINGS, LLC, NORTH CAROLINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BENTZ, CHRISTOPHER KENT; REEL/FRAME:026838/0588 EFFECTIVE DATE : 20110822
US2011163195 AA	20150408	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7980202 BB	20110719	LSGT	+	granted / extensions (spc, cpc, pte)	
US7980202 BB	20080111	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENTZ, CHRISTOPHER KENT, NORTH CAROLINA OLDPARTY : ASSIGNMENT OF

					ASSIGNORS INTEREST; ASSIGNOR:ITZ, GARET; REEL/FRAME:020404/0121 EFFECTIVE DATE : 20071218
US7980202 BB	20110831	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PARKS/BENTZ IP HOLDINGS, LLC, NORTH CAROLINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BENTZ, CHRISTOPHER KENT; REEL/FRAME:026838/0588 EFFECTIVE DATE : 20110822
US7980202 BB	20150719	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7980202 BB	20150719	LSRE	+REIN	REINSTATEMENT AFTER MAINTENANCE FEE PAYMENT CONFIRMED	
US7980202 BB	20150831	LSRE	+PRDP	PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE	EFFECTIVE DATE : 20150902
US7980202 BB	20150902	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7980202 BB	20150902	LSGT	PAT1	Patented Case	
US7980202 BB	20150902	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7980202 BB	20150908	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150719
US7980202 BB	20190311	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7980202 BB	20190524	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 7.5 YR SURCHARGE - LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2555); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7980202 BB	20190524	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7980202 BB	20290912	PEXP		Calculated Patent Term Expiry (PTA 610 days)	
US9016242 BB	20150428	LSGT	+	granted / extensions (spc, cpc, pte)	
US9016242 BB	20090213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CHRISTOPHER KENT BENTZ, NORTH CAROLINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ITZ, GARET; PETERSEN, WESTON; REEL/FRAME:022256/0666 EFFECTIVE DATE : 20090128
US9016242 BB	20090213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENTZ, CHRISTOPHER KENT, NORTH CAROLINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PETERSEN, WESTON; REEL/FRAME:022261/0488 EFFECTIVE DATE : 20081029
US9016242 BB	20101222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BENTZ, CHRISTOPHER KENT, MR., NORTH CAROLINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ITZ, GARET, MR.; PETERSEN, WESTON, MR.; REEL/FRAME:025561/0416 EFFECTIVE DATE : 20090128
US9016242 BB	20150408	LSGT	PAT1	Patented Case	
US9016242 BB	20180507	LSFE	+MAFP	MAINTENANCE FEE	YEAR OF FEE PAYMENT : 4

PAYMENT					
US9016242 BB	20300402	PEXP		Calculated Patent Term Expiry (PTA 445 days and a terminal disclaimer has been filed)	
WO09089071 A1	20090716	LSPB	+	published / reissued	
WO09089071 A1	20100713	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO09089071 A1	20110216	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 09700874 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO09089071 A1	20110318	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12522348 COUNTRY OF REF DOCUMENT : US

Title: MULTIPLE LOT BUNK FEEDER

Abstract: (Claim 1) 1. A multiple lot bunk feeder comprising a housing, having a plurality of feed discharge openings to direct feed into feeding locations in a plurality of feedlots, a conveyor located in the housing for moving feed to feed discharge areas in the housing located adjacent the discharge openings, separate movable gate means for closing the discharge openings associated with each feedlot, separate drive means for individually moving the separate gate means from closed positions to open positions whereby feed is discharged to a feedlot location associated with a lot and control means for selectively actuating the drive means to move at least one gate means to the open position while other gate means remain in the closed position.

Classifications:

International (IPC 8-9): A01K5/02 (Advanced/Invention);

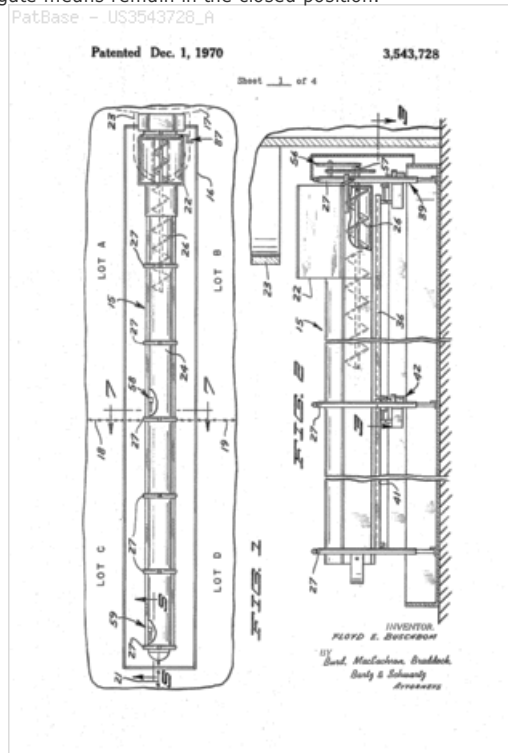
A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/02

CPC: A01K5/0258

European: A01K5/02E

US: 119/52 119/56.2 119/57.2 119/57.7



Family:

Publication number	Publication date	Application number	Application date
US3543728 A	19701201	US19670683274	19671115

Priority:

US19670683274 19671115

Probable Assignee:

DALE CORP VAN

Assignee(s): (std):

DALE CORP ; DALE CORP VAN

Assignee(s):

VAN DALE CORP

Inventor(s): (std):

BUSCHBOM FLOYD E

Inventor(s):

FLOYD E BUSCHBOM

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3543728 A	19701201	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: **ASSEMBLY** FOR HOUSING ANIMALS, AUTOMATIC MILKING DEVICE AND METHOD FOR COMPUTER-CONTROLLED MANAGEMENT OF ANIMALS

Abstract: Source: EP2368426A3 [DE] Es wird eine Anordnung (1) beschrieben zur Unterbringung von milchgebenden Tieren mit mindestens zwei Ruhebereichen (2, 3), in denen Tiere aus mindestens zwei Gruppen ruhen koennen, einem Fressbereich (20,30), in dem Tieren Futter angeboten wird, einem Melkbereich (7) mit mindestens einem Melkroboter (10) und einer Computersteuerung (21) mit Mikrocomputer und Programmspeicher, einem Gang (40,50), einem Koteinwurfschacht (4) mit einer Laenge mindestens ueber der Breite des Gangs (40,50) und mit einem quer ueber der Breite des Gangs (40,50) und in Laengsrichtung des Gangs verfahrbaren Schieber (5,6), der Kot von den Tieren in den Koteinwurfschacht schiebt. Die Haltung der Tiere wird erleichtert und die Milchabgabe von Tieren wird vereinfacht, indem der Melkbereich derart ausgebildet ist, dass der mindestens eine Melkroboter fuer die mindestens zwei Gruppen zugaeenglich ist und der Melkbereich eine Vorrichtung zum automatischen Melken umfasst, bei der ein Futtertrog (11,12) an einem Melkplatz (8,9) im Melkbereich (7) mittels einer gesteuerten Bewegungsvorrichtung in eine erste, das Tier zu melkenden Grundposition vor das Tier in Maulhoehe und in eine zweite, den Melkplatz (8,9) oeffnende Position verfahrbar, schwenkbar oder schiebbar ist, so dass eine Auslasstuer an dem Melkplatz nicht erforderlich ist, und wobei dem Tier ein im Wesentlichen gerader Laufweg zu dem Melkplatz und aus dem Melkplatz heraus bereitgestellt wird.

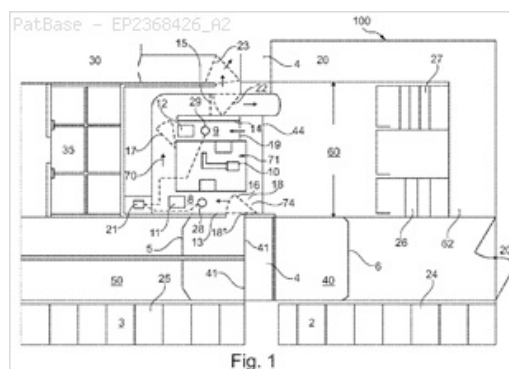
Classifications:

International (IPC 8-9): A01J99/00 A01K1/00

A01K1/12 (Advanced/Invention)

CPC: A01K1/00 A01K1/12

European: A01K1/00 A01K1/12



Family:

Publication number	Publication date	Application number	Application date
DE102010016126 A1	20110929	DE201010016126	20100324
EP2368426 A2	20110928	EP20110158936	20110319
EP2368426 A3	20120222	EP20110158936	20110319

Priority:

DE201010016126 20100324

Probable Assignee: HARTMANN GRUNDBESITZ GMBH AND CO KG

Assignee(s): (std): HARTMANN GRUNDBESITZ GMBH AND CO KG

Inventor(s): (std): HARTMANN HANS

Agent(s): BOEHM THOMAS; MERH IP MATIAS ERNY REICHL HOFFMANN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102010016126 A1	20110929	LSPB	+	published / reissued	
DE102010016126 A1	20110323	LSES	R016	RESPONSE TO EXAMINATION COMMUNICATION	
DE102010016126 A1	20121217	LSRV	-R002	REFUSAL DECISION IN EXAMINATION/REGISTRATION PROCEEDINGS	
DE102010016126 A1	20130418	LSRV	-R003	REFUSAL DECISION NOW FINAL	EFFECTIVE DATE : 20130122
EP2368426 A2	20110928	LSPB	+	published / reissued	
EP2368426 A2	20110928	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20110323
EP2368426 A3	20130529	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20130425
EP2368426 A3	20140618	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20131106

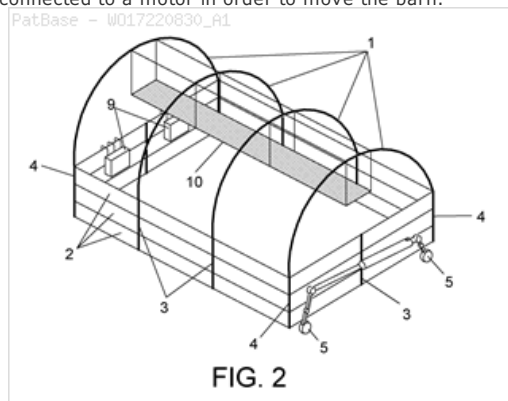
Title: SELF-SUPPORTING MODULAR BARN

Abstract: The invention relates to a self-supporting modular barn formed by longitudinal elements (2) that are secured to posts (3, 4) in order to form an enclosure closed along its perimeter, using reversible mechanical attachments in order to define a modular enclosure. The invention comprises straight posts (3) that receive aligned longitudinal elements (2), corner posts (4) that receive angle-forming longitudinal elements (2), an **electric fence** (12) secured to the inside perimeter of the barn, and at least two pairs of wheels (5) for moving the barn, at least one wheel (5) being connected to a motor in order to move the barn.

Classifications:

International (IPC 8-9): A01K1/00 E04H17/14
E04H17/18 (Advanced/Invention)

CPC: A01K3/00 A01K1/00 E04H17/18



Family:

Publication number	Publication date	Application number	Application date
ES2651297 AA	20180125	ES20160030857	20160623
ES2651297 BA	20181030	ES20160030857	20160623
WO17220830 A1	20171228	WO2017ES70433	20170615

Priority:

ES20160030857 20160623

Probable Assignee: FERSAMU 2014 S L

Assignee(s): (std): ESTEBAN MARTIN MARIA JOSE ; FERSAMU 2014 S L ; I AND D FERJOJUSA S L ; MARTIN MORENO FERNANDO JULIAN ; MISIS ANDRES JULIO ; ROLDAN DE PRADOS SONIA

Assignee(s): SONIA ROLDAN DE PRADOS ; I AND D FERJOJUSA SL ; JULIO MISIS ANDRES ; MARIA JOSE ESTEBAN MARTIN ; FERSAMU 2014 SL ; FERNANDO JULIAN MARTIN MORENO

Inventor(s): (std): MARTIN MORENO FERNANDO JULIAN

Inventor(s): FERNANDO JULIAN MARTIN MORENO

Agent(s): UNGRIA JAVIER; UNGRIA LOPEZ JAVIER

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 JO JP KE KG KH KM KN KP KR KW KZ LA LC 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
ES2651297 AA	20180125	LSPB	+	published / reissued	
ES2651297 BA	20181030	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2651297 BA	20181030	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2651297 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : B1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20181030
ES2651297 BA	20360623	PEXP		Calculated Patent Term Expiry	
WO17220830 A1	20171228	LSPB	+	published / reissued	
WO17220830 A1	20181225	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO17220830 A1	20191030	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 17814799 COUNTRY OF REF

DOCUMENT : EP
KIND CODE OF REF
DOCUMENT : A1
DESIGNATED STATE(S)
:

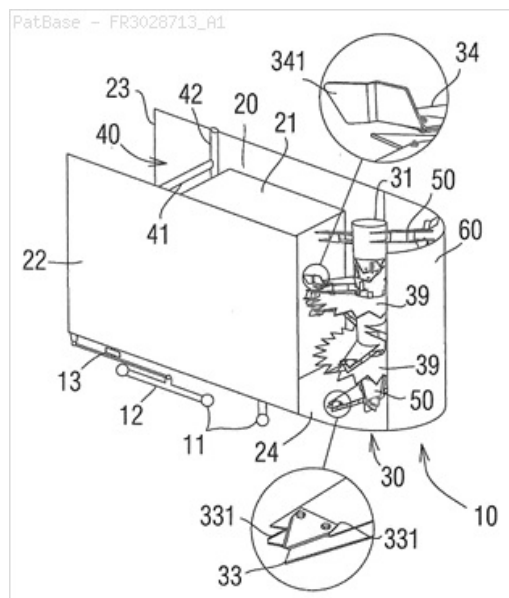
Title: DISTRIBUTEUR AUTONOME DE FOURRAGE APTE A REALISER UNE LITIERE DANS UN BATIMENT D'ELEVAGE D'ANIMAUX DE RENTE ET BATIMENT LA COMPORTANT

Abstract: Source: FR3028713B [FR] La distributrice autonome de fourrage, apte a realiser une litiere sur une aire d'elevage, comprend un chassis porte par des organes de roulement (11), supportant un magasin de stockage (20) d'un materiau (21) de litiere comprenant deux parois laterales (22, 23), jointes par une paroi de fond (24) fixee au chassis, et un moyen d'epandage (30), monte sur ledit chassis, caracterise en ce que le moyen d'epandage est compose d'un ou plusieurs rotors (31) verticaux concentriques superposes les uns aux autres, entraines en rotation par un organe moteur, et dotes d'organes de coupe (33) et/ou d'organes de projection (34), respectivement aptes a dechiqueter et a projeter le materiau a epandre lateralement a la direction d'avance de la distributrice, et les organes de coupe et de projection du ou de chaque rotor possedant, a leur extremite libre, une vitesse tangentielle croissante du bas vers le haut, afin que le materiau projete forme une litiere d'une epaisseur uniforme a proximite et a distance de ladite distributrice.

Classifications:

International (IPC 8-9): A01F29/00 A01K1/015 (Advanced/Invention)

CPC: A01F29/005 A01K1/015



Family:

Publication number	Publication date	Application number	Application date
FR3028713 A1	20160527	FR20140061225	20141120
FR3028713 B1	20170113	FR20140061225	20141120

Priority:

FR20140061225 20141120

Probable Assignee:

EHB

Assignee(s): (std):

EHB

Inventor(s): (std):

BONNEFOUS HENRI

Inventor(s):

HENRI BONNEFOUS

Agent(s):

RAVINA SA; IPSIDE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR3028713 A1	20160527	LSPB	+	published / reissued	
FR3028713 A1	20151123	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 2
FR3028713 A1	20160527	LSES	PLSC	SEARCH REPORT READY	EFFECTIVE DATE : 20160527
FR3028713 A1	20161129	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3
FR3028713 B1	20170113	LSGT	+	granted / extensions (spc, cpc, pte)	
FR3028713 B1	20171130	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
FR3028713 B1	20181130	LSFE	PLFP	Fee Payment (FEE PAYMENT)	PAYMENT DATE : 20181130 YEAR OF FEE PAYMENT : 5
FR3028713 B1	20191129	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 6

FR3028713 B1 20341120

PEXP

Calculated Patent Term Expiry

Title: ANIMAL CONTROL DEVICE

Abstract: A system for controlling an animal includes a radio signal receiver unit which is attached to the animal. The receiver includes an antenna assembly, a resonant filter, an amplifier, and a transducer for applying a motivational stimulus to the animal. A microcontroller selectively activates the components of the receiver according to a control sequence. The microcontroller performs a multi-stage authentication procedure in order to determine the presence of characteristic properties of the received signal prior to operating the transducer. The transducer includes a speaker circuit for applying audible stimulation, and a transformer circuit for applying electrical stimulation. The type of stimulation and the duration of stimulation may be selected according to control parameters used in conjunction with the control sequence.

Classifications:

International (IPC 8-9): A01K15/02 A01K3/00 G08C17/02 H01M2/10 H04B1/06 H04B1/08 H05C1/00 (Advanced/Invention);

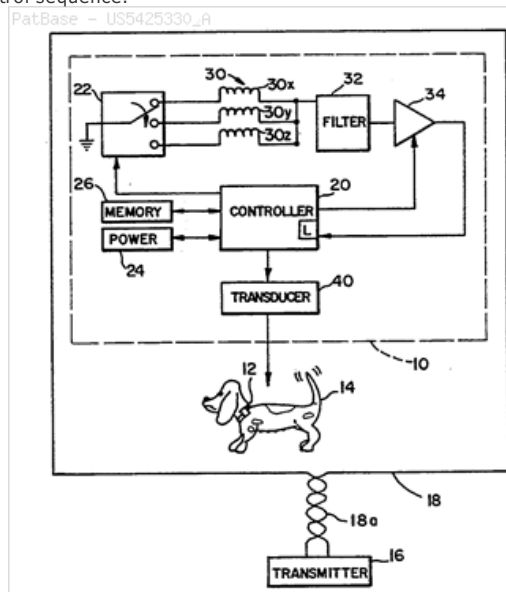
A01K15/00 G08C17/00 H01M2/10 H05C1/00 (Core/Invention)

International (IPC 1-7): A01K1/00 A01K15/00 A01K15/02 A01K3/00 G08C17/02 H01M2/10 H04B1/06 H04B1/08 H05C1/00

CPC: A01K15/023 Y10S119/908 H01M2/1055

European: A01K15/02A2 H01M2/10C2C2 Y02E60/12

US: 119/721 119/908 429/1 429/100 429/123 429/97 429/98

**Family:**

Publication number	Publication date	Application number	Application date
AT210897 E	20011215	AT19940929098T	19940817
AT211613 E	20020115	AT19940925969T	19940818
AU199476007 A1	19950314	AU19940076007	19940818
AU199478279 A1	19950314	AU19940078279	19940817
CA2156328 AA	19960225	CA19952156328	19950817
CA2156328 C	20000606	CA19952156328	19950817
CA2169261 AA	19960209	CA19942169261	19940817
CA2169261 C	20040615	CA19942169261	19940817
CA2169353 AA	19960212	CA19942169353	19940818
DE69429437 D1	20020124	DE19946029437	19940817
DE69429437 T2	20020801	DE19946029437T	19940817
DE69429624 D1	20020214	DE19946029624	19940818
DE69429624 T2	20020814	DE19946029624T	19940818
EP0714235 A1	19960605	EP19940925969	19940818
EP0714235 A4	19960911	EP19940925969	19940818
EP0714235 B1	20020109	EP19940925969	19940818
EP0720780 A1	19960710	EP19940929098	19940817
EP0720780 A4	19970319	EP19940929098	19940817
EP0720780 B1	20011212	EP19940929098	19940817
US5425330 A	19950620	US19930109132	19930819
US5435271 A	19950725	US19940182489	19940114
US5445900 A	19950829	US19930107868	19930818
US5476729 A	19951219	US19940182604	19940114
US5533469 A	19960709	US19940295380	19940824
WO9505071 A2	19950223	WO1994US09424	19940818
WO9505071 A3	19950427	WO1994US09424	19940818
WO9505683 A1	19950223	WO1994US09368	19940817

Priority:

US19930107868 19930818	US19930109132 19930819	US19940182604 19940114
US19940182489 19940114	WO1994US09368 19940817	WO1994US09424 19940818
US19940295380 19940824	CA19952156328 19950817	CA19952156328 19950817

Probable Assignee: INVISIBLE FENCE INC**Assignee(s):** (std): INVISIBLE FENCE CO INC ; IFCO ENTPR INC

Assignee(s): IFCO ENTERPRISES INC ; CANINE ACQUISITION CO INC ; NATIONAL CITY BANK ; INNOTEK INC ; FIFTH THIRD BANK AS ADMINISTRATIVE AGENT ; INVISIBLE FENCE INC ; IFCO ENTERPRISES INC A CORP OF PENNSYLVANIA ; FIFTH THIRD BANK ADMINISTRATIVE AGENT AS ; INVISLBLE FENCE CO INC ; MILLER KENNETH JR ; PEINETTI DONALD L ; TOUCHTON SCOTT F ; NEWELL MICHAEL S ; INVISIBLE FENCE

Inventor(s): (std): COMPANY INC ; BANK OF NEW YORK MELLON TRUST CO NA ; DUFFY WILLIAM J JR ; IFCO ENTERPRISES INC (PA CORP) ; IFCO ENTERPRISES INC PA CORP ; INNOTEK PET PRODUCTS INC

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT210897 E	20011215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT210897 E	20140817	PEXP		Calculated Patent Term Expiry	
AT211613 E	20020115	LSGT	+	granted / extensions (spc, cpc, pte)	
AT211613 E	20020715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT211613 E	20140818	PEXP		Calculated Patent Term Expiry	
AU199476007 A1	19950314	LSPB	+	published / reissued	
AU199478279 A1	19950314	LSPB	+	published / reissued	
CA2156328 AA	19960225	LSPB	+	published / reissued	
CA2156328 AA	19951121	LSES	+EEER	EXAMINATION REQUEST	
CA2156328 C	20000606	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2156328 C	20151019	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20150817
CA2156328 C	20150817	PEXP		Calculated Patent Term Expiry	
CA2169261 AA	19960209	LSPB	+	published / reissued	
CA2169261 AA	19981023	LSES	+EEER	EXAMINATION REQUEST	
CA2169261 C	20040615	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2169261 C	20141020	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20140818
CA2169261 C	20140817	PEXP		Calculated Patent Term Expiry	
CA2169353 AA	19960212	LSPB	+	published / reissued	
CA2169353 AA	19960329	LSES	+EEER	EXAMINATION REQUEST	
CA2169353 AA	20041115	LSLE	-FZDE	DEAD	
DE69429437 D1	20080320	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69429437 D1	20090702	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69429437 T2	20020801	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69429437 T2	20140817	PEXP		Calculated Patent Term Expiry	
DE69429624 D1	20020926	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., GARRETT, IND., US
DE69429624 D1	20030206	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69429624 D1	20140818	LSLE	-R071	EXPIRY OF RIGHT	

DE69429624 T2	20020814	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69429624 T2	20140818	PEXP		Calculated Patent Term Expiry	
EP0714235 A1	19960605	LSPB	+	published / reissued	
EP0714235 A1	19960605	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960315
EP0714235 A1	19960821	LSES	D17D	DEFERRED SEARCH REPORT PUBLISHED (DELETED)	
EP0714235 A1	19960828	LSRE	RHK1	MAIN CLASSIFICATION (CORRECTION)	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A01K 15/02
EP0714235 A4	19960911	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 19960724
EP0714235 A4	19980826	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 19980713
EP0714235 A4	20000830	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES, INC.
EP0714235 B1	20020109	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020109
EP0714235 B1	20020109	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT

LAPSED DATE : 20020109					
EP0714235 B1	20020115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0714235 B1	20020206	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0714235 B1	20020227	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC.
EP0714235 B1	20020409	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020409
EP0714235 B1	20020409	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020409
EP0714235 B1	20020409	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020409
EP0714235 B1	20020603	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0714235 B1	20020715	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0714235 B1	20020730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20020730
EP0714235 B1	20020818	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 : 20020818
EP0714235 B1	20030102	LSGT	+26N	NO OPPOSITION FILED	
EP0714235 B1	20030301	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20030301
EP0714235 B1	20030602	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0714235 B1	20131031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20130828 YEAR OF FEE PAYMENT : 20
EP0714235 B1	20131129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20130814 YEAR OF FEE PAYMENT : 20

EP0714235 B1	20131129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20130829 YEAR OF FEE PAYMENT : 20
EP0714235 B1	20140131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20131017 YEAR OF FEE PAYMENT : 20
EP0714235 B1	20140819	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R071 REF DOCUMENT NUMBER : 69429624 COUNTRY OF REF DOCUMENT : DE
EP0714235 B1	20140910	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20140817
EP0714235 B1	20140924	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MK9A
EP0714235 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140818
EP0714235 B1	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140819
EP0714235 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140817
EP0714235 B1	20140817	PEXP		Calculated Patent Term Expiry	
EP0714235 B1	20140818	PEXP		Calculated Patent Term Expiry	
EP0720780 A1	19960710	LSPB	+	published / reissued	
EP0720780 A1	19960710	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19960315
EP0720780 A4	19970319	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 19970131
EP0720780 A4	19980624	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19980508
EP0720780 A4	20000830	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES, INC.
EP0720780 B1	20011212	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011212	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20011212
EP0720780 B1	20011214	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0720780 B1	20020123	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP0720780 B1	20020227	LSAS	RAP2	RIGHTS OF A PATENT TRANSFERRED	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC.
EP0720780 B1	20020312	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020312
EP0720780 B1	20020312	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020312
EP0720780 B1	20020312	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020312
EP0720780 B1	20020603	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0720780 B1	20020614	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0720780 B1	20020627	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : ES

				CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20020627
EP0720780 B1	20020817	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 : 20020817
EP0720780 B1	20021204	LSGT	+26N	NO OPPOSITION FILED	
EP0720780 B1	20030301	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20030301
EP0720780 B1	20030602	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0720780 B1	20070831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20070831 YEAR OF FEE PAYMENT : 14
EP0720780 B1	20080131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20071030 YEAR OF FEE PAYMENT : 14
EP0720780 B1	20090527	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP0720780 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20080818
EP0720780 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090303
EP0720780 B1	20131129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20130814 YEAR OF FEE PAYMENT : 20
EP0720780 B1	20131129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20130829 YEAR OF FEE PAYMENT : 20
EP0720780 B1	20140910	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : PE20 EXPIRY DATE : 20140816
EP0720780 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF EXPIRATION OF PROTECTION LAPSED DATE : 20140816
EP0720780 B1	20140816	PEXP		Calculated Patent Term Expiry	
EP0720780 B1	20140817	PEXP		Calculated Patent Term Expiry	
US5425330 A	19950620	LSGT	+	granted / extensions (spc, cpc, pte)	
US5425330 A	19950127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE

					COMPANY, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TOUCHTON, SCOTT F.; NEWELL, MICHAEL S.; PEINETTI, DONALD L.; REEL/FRAME:007343/0635 EFFECTIVE DATE : 19930825
US5425330 A	19950608	LSGT	PAT1	Patented Case	
US5425330 A	19950608	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5425330 A	19980724	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5425330 A	20010501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK PET PRODUCTS, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:011707/0564 EFFECTIVE DATE : 20010124
US5425330 A	20011009	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CANINE ACQUISITION COMPANY, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IFCO ENTERPRISES, INC.; REEL/FRAME:012463/0382 EFFECTIVE DATE : 20010124
US5425330 A	20020108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., INDIANA OLDPARTY : CHANGE OF NAME; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:012475/0542 EFFECTIVE DATE : 20010125
US5425330 A	20021218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5425330 A	20050923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:INNOTEK, INC.; REEL/FRAME:016580/0060 EFFECTIVE DATE : 20010125
US5425330 A	20060921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:INVISIBLE FENCE, INC.; REEL/FRAME:018296/0090 EFFECTIVE DATE : 20060915
US5425330 A	20060926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF ASSIGNMENT; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018323/0501 EFFECTIVE DATE : 20060915
US5425330 A	20060927	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF SECURITY AGREEMENT RECORDED ON SEPTEMBER 23, 2005 AT REEL/FRAME NO. 016580/0060; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018303/0629 EFFECTIVE DATE : 20060914
US5425330 A	20061220	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5425330 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0434

					EFFECTIVE DATE : 20121023
US5425330 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0001 EFFECTIVE DATE : 20121023
US5425330 A	20151117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNMENT DOCUMENT WHICH INCORRECTLY IDENTIFIED PATENT APP. NO. 13/302,477 PREVIOUSLY RECORDED ON REEL 029308 FRAME 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:037127/0491 EFFECTIVE DATE : 20150929
US5425330 A	20160324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 029308 FRAME: 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:038332/0343 EFFECTIVE DATE : 20121023
US5425330 A	20160502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 037127 FRAME: 0491. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:038601/0757 EFFECTIVE DATE : 20150929
US5425330 A	20130819	PEXP		Calculated Patent Term Expiry	
US5435271 A	19950725	LSGT	+	granted / extensions (spc, cpc, pte)	
US5435271 A	19940314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE COMPANY, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TOUCHTON, SCOTT F.; PEINETTI, DONALD L.; REEL/FRAME:006886/0933; SIGNING DATES FROM 19940302 TO 19940308
US5435271 A	19950714	LSGT	PAT1	Patented Case	
US5435271 A	19950714	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5435271 A	19980727	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5435271 A	20010123	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES, INC. (PA CORP.), PENNSYLVANIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:INVISIBLE FENCE COMPANY, INC.; REEL/FRAME:011469/0544 EFFECTIVE DATE : 19990330

US5435271 A	20010501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK PET PRODUCTS, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:011707/0564 EFFECTIVE DATE : 20010124
US5435271 A	20011009	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CANINE ACQUISITION COMPANY, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IFCO ENTERPRISES, INC.; REEL/FRAME:012463/0382 EFFECTIVE DATE : 20010124
US5435271 A	20020108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., INDIANA OLDPARTY : CHANGE OF NAME; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:012475/0542 EFFECTIVE DATE : 20010125
US5435271 A	20030121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5435271 A	20050923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:INNOTEK, INC.; REEL/FRAME:016580/0060 EFFECTIVE DATE : 20010125
US5435271 A	20060921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:INVISIBLE FENCE, INC.; REEL/FRAME:018296/0090 EFFECTIVE DATE : 20060915
US5435271 A	20060926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF ASSIGNMENT; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018323/0501 EFFECTIVE DATE : 20060915
US5435271 A	20060927	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF SECURITY AGREEMENT RECORDED ON SEPTEMBER 23, 2005 AT REEL/FRAME NO. 016580/0060; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018303/0629 EFFECTIVE DATE : 20060914
US5435271 A	20070125	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5435271 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0001 EFFECTIVE DATE : 20121023
US5435271 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0434 EFFECTIVE DATE : 20121023
US5435271 A	20151117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F

					OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNMENT DOCUMENT WHICH INCORRECTLY IDENTIFIED PATENT APP. NO. 13/302,477 PREVIOUSLY RECORDED ON REEL 029308 FRAME 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:037127/0491 EFFECTIVE DATE : 20150929
US5435271 A	20160324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 029308 FRAME: 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:038332/0343 EFFECTIVE DATE : 20121023
US5435271 A	20160502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 037127 FRAME: 0491. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:038601/0757 EFFECTIVE DATE : 20150929
US5435271 A	20140114	PEXP		Calculated Patent Term Expiry	
US5445900 A	19950829	LSGT	+	granted / extensions (spc, cpc, pte)	
US5445900 A	19950209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE COMPANY, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MILLER, KENNETH, JR.; DUFFY, WILLIAM J., JR.; REEL/FRAME:007341/0758; SIGNING DATES FROM 19930825 TO 19930831
US5445900 A	19950818	LSGT	PAT1	Patented Case	
US5445900 A	19950818	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5445900 A	19980928	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5445900 A	20010122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES, INC., PENNSYLVANIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:INVISIBLE FENCE COMPANY, INC.; REEL/FRAME:011467/0403 EFFECTIVE DATE : 19990330
US5445900 A	20010501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK PET PRODUCTS, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:011707/0564 EFFECTIVE DATE : 20010124
US5445900 A	20020108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., INDIANA OLDPARTY : CHANGE OF NAME;

ASSIGNOR:CANINE ACQUISITION
COMPANY, INC.;
REEL/FRAME:012475/0542
EFFECTIVE DATE : 20010125

US5445900 A	20030121	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5445900 A	20050923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:INNOTEK, INC.; REEL/FRAME:016580/0060 EFFECTIVE DATE : 20010125
US5445900 A	20060921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:INVISIBLE FENCE, INC.; REEL/FRAME:018296/0090 EFFECTIVE DATE : 20060915
US5445900 A	20060926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF ASSIGNMENT; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018323/0501 EFFECTIVE DATE : 20060915
US5445900 A	20060927	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF SECURITY AGREEMENT RECORDED ON SEPTEMBER 23, 2005 AT REEL/FRAME NO. 016580/0060; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018303/0629 EFFECTIVE DATE : 20060914
US5445900 A	20070228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5445900 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0001 EFFECTIVE DATE : 20121023
US5445900 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0434 EFFECTIVE DATE : 20121023
US5445900 A	20151117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNMENT DOCUMENT WHICH INCORRECTLY IDENTIFIED PATENT APP. NO. 13/302,477 PREVIOUSLY RECORDED ON REEL 029308 FRAME 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:037127/0491 EFFECTIVE DATE : 20150929
US5445900 A	20160324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 029308 FRAME: 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS

					CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:038332/0343 EFFECTIVE DATE : 20121023
US5445900 A	20160502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 037127 FRAME: 0491. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:038601/0757 EFFECTIVE DATE : 20150929
US5445900 A	20130818	PEXP		Calculated Patent Term Expiry	
US5476729 A	19951219	LSGT	+	granted / extensions (spc, cpc, pte)	
US5476729 A	19940314	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE COMPANY, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MILLER, KENNETH JR.; DUFFY, WILLIAM J. JR.; REEL/FRAME:006894/0786 EFFECTIVE DATE : 19940225
US5476729 A	19951207	LSGT	PAT1	Patented Case	
US5476729 A	19951207	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5476729 A	19990111	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5476729 A	20010122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES INC., A CORP. OF PENNSYLVANIA, PE OLDPARTY : ARTICLES OF DOMENSTICATION FOR PA CORPORATION; ASSIGNOR:INVISIBLE FENCE COMPANY, INC., A CORP. OF DELAWARE; REEL/FRAME:011467/0392 EFFECTIVE DATE : 19990330
US5476729 A	20010501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK PET PRODUCTS, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:011707/0564 EFFECTIVE DATE : 20010124
US5476729 A	20011009	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CANINE ACQUISITION COMPANY, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IFCO ENTERPRISES, INC.; REEL/FRAME:012463/0382 EFFECTIVE DATE : 20010124
US5476729 A	20020108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., INDIANA OLDPARTY : CHANGE OF NAME; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:012475/0542 EFFECTIVE DATE : 20010125
US5476729 A	20030619	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5476729 A	20050923	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NATIONAL CITY BANK, OHIO OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:INNOTEK,

					INC.; REEL/FRAME:016580/0060 EFFECTIVE DATE : 20010125
US5476729 A	20060921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:INVISIBLE FENCE, INC.; REEL/FRAME:018296/0090 EFFECTIVE DATE : 20060915
US5476729 A	20060926	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF ASSIGNMENT; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018323/0501 EFFECTIVE DATE : 20060915
US5476729 A	20060927	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK, INC., INDIANA OLDPARTY : RELEASE OF SECURITY AGREEMENT RECORDED ON SEPTEMBER 23, 2005 AT REEL/FRAME NO. 016580/0060; ASSIGNOR:NATIONAL CITY BANK; REEL/FRAME:018303/0629 EFFECTIVE DATE : 20060914
US5476729 A	20070517	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5476729 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0001 EFFECTIVE DATE : 20121023
US5476729 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0434 EFFECTIVE DATE : 20121023
US5476729 A	20151117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNMENT DOCUMENT WHICH INCORRECTLY IDENTIFIED PATENT APP. NO. 13/302,477 PREVIOUSLY RECORDED ON REEL 029308 FRAME 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:037127/0491 EFFECTIVE DATE : 20150929
US5476729 A	20160324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 029308 FRAME: 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:038332/0343 EFFECTIVE DATE : 20121023
US5476729 A	20160502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 037127 FRAME: 0491. ASSIGNOR(S) HEREBY CONFIRMS

					THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:038601/0757 EFFECTIVE DATE : 20150929
US5476729 A	20140114	PEXP		Calculated Patent Term Expiry	
US5533469 A	19960709	LSGT	+	granted / extensions (spc, cpc, pte)	
US5533469 A	19941026	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISBLE FENCE COMPANY, INC., PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:TOUCHTON, SCOTT F.; PEINETTI, DONALD L.; DUFFY, WILLIAM J., JR.; REEL/FRAME:007175/0907; SIGNING DATES FROM 19941019 TO 19941020
US5533469 A	19960627	LSGT	PAT1	Patented Case	
US5533469 A	19960627	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5533469 A	19990802	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5533469 A	20010122	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : IFCO ENTERPRISES, INC., PENNSYLVANIA OLDPARTY : CHANGE OF NAME; ASSIGNOR:INVISIBLE FENCE COMPANY, INC.; REEL/FRAME:011467/0481 EFFECTIVE DATE : 19990330
US5533469 A	20010501	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INNOTEK PET PRODUCTS, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:011707/0564 EFFECTIVE DATE : 20010124
US5533469 A	20011009	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CANINE ACQUISITION COMPANY, INC., INDIANA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:IFCO ENTERPRISES, INC.; REEL/FRAME:012463/0382 EFFECTIVE DATE : 20010124
US5533469 A	20020108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INVISIBLE FENCE, INC., INDIANA OLDPARTY : CHANGE OF NAME; ASSIGNOR:CANINE ACQUISITION COMPANY, INC.; REEL/FRAME:012475/0542 EFFECTIVE DATE : 20010125
US5533469 A	20040109	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5533469 A	20060921	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, OHIO OLDPARTY : SECURITY INTEREST; ASSIGNOR:INVISIBLE FENCE, INC.; REEL/FRAME:018296/0090 EFFECTIVE DATE : 20060915
US5533469 A	20071227	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5533469 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0001 EFFECTIVE DATE : 20121023

US5533469 A	20121116	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:029308/0434 EFFECTIVE DATE : 20121023
US5533469 A	20151117	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNMENT DOCUMENT WHICH INCORRECTLY IDENTIFIED PATENT APP. NO. 13/302,477 PREVIOUSLY RECORDED ON REEL 029308 FRAME 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:037127/0491 EFFECTIVE DATE : 20150929
US5533469 A	20160324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 029308 FRAME: 0001. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY AGREEMENT; ASSIGNORS:RADIO SYSTEMS CORPORATION; INNOTEK, INC.; INVISIBLE FENCE, INC.; REEL/FRAME:038332/0343 EFFECTIVE DATE : 20121023
US5533469 A	20160502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., F OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE INCORRECT PATENT NO. 7814565 PREVIOUSLY RECORDED AT REEL: 037127 FRAME: 0491. ASSIGNOR(S) HEREBY CONFIRMS THE SECURITY INTEREST; ASSIGNORS:RADIO SYSTEMS CORPORATION; INVISIBLE FENCE, INC.; INNOTEK, INC.; REEL/FRAME:038601/0757 EFFECTIVE DATE : 20150929
US5533469 A	20140824	PEXP		Calculated Patent Term Expiry	
WO9505071 A2	19950223	LSPB	+	published / reissued	
WO9505071 A3	19960212	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2169353 COUNTRY OF REF DOCUMENT : CA
WO9505071 A3	19960315	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1994925969 COUNTRY OF REF DOCUMENT : EP
WO9505071 A3	19960530	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9505071 A3	19960605	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994925969 COUNTRY OF REF DOCUMENT : EP
WO9505071 A3	20020109	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994925969 COUNTRY OF REF DOCUMENT : EP
WO9505683 A1	19950223	LSPB	+	published / reissued	
WO9505683 A1	19960209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2169261 COUNTRY OF REF DOCUMENT : CA
WO9505683 A1	19960315	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL	REF DOCUMENT NUMBER : 1994929098

				PHASE	COUNTRY OF REF DOCUMENT : EP
WO9505683 A1	19960530	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9505683 A1	19960710	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994929098 COUNTRY OF REF DOCUMENT : EP
WO9505683 A1	20011212	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1994929098 COUNTRY OF REF DOCUMENT : EP

Title: LINEAR ELEMENT FOR AN **ELECTRIC FENCE**

Abstract: The invention relates to a linear element for an **electric fence**, comprising at least one electrical conductor which is built into at least one plastic support. The inventive linear element also comprises at least one textile yarn which is totally or partially built into the support, said conductor and said textile yarn forming a structural unit with the support. The aforementioned support is fully or partially made from a semiconducting plastic material. According to the invention, the support defines repellent areas at which an electrical contact can occur with any body or element external to said structural unit.

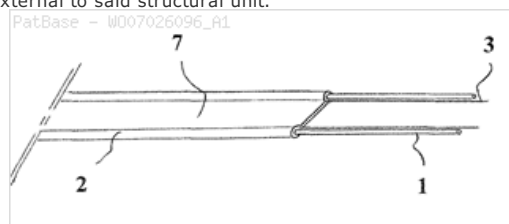
Classifications:

International (IPC 8-9): A01K3/00 H01B5/00 (Advanced/Invention);

A01K3/00 H01B5/00 (Core/Invention)

CPC: A01K3/005 H01B5/008

European: A01K3/00C H01B5/00D



Family:

Publication number	Publication date	Application number	Application date
FR2889905 A1	20070302	FR20050008821	20050829
FR2889905 B1	20071012	FR20050008821	20050829
WO07026096 A1	20070308	WO2006FR50817	20060829

Priority:

FR20050008821 20050829

Probable Assignee: CIE GENERALE DES PLASTIQUES

Assignee(s): (std): BELLON JEAN MICHEL ; CIE GENERALE DES PLASTIQUES ; REY ALAIN

Assignee(s): JEAN MICHEL BELLON ; ALAIN REY ; DES PLASTIQUES COMP GEN ; COMPAGNIE GENERALE DES PLASTIQUES

Inventor(s): (std): BELLON JEAN MICHEL ; REY ALAIN

Inventor(s): JEAN MICHEL BELLON ; ALAIN REY

Agent(s): CABINET LAURENT ET CHARRAS

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 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 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)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
FR2889905 A1	20070302	LSPB	+	published / reissued	
FR2889905 A1	20070525	LSLI	CL	CONCESSION TO GRANT LICENCES	
FR2889905 B1	20071012	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2889905 B1	20160830	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
FR2889905 B1	20180525	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20180430
FR2889905 B1	20250829	PEXP		Calculated Patent Term Expiry	
WO07026096 A1	20070308	LSPB	+	published / reissued	
WO07026096 A1	20080301	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO07026096 A1	20081015	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 06808257 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: CLOSING DEVICE FOR THE SPACE BETWEEN TWO POINTS, PARTICULARLY FOR THE GATEWAY IN AN ELECTRICAL **FENCE**

Abstract: At least one end of a band (3) is fastened to a spring-actuated winding device (6) which seeks to shorten the band by winding it up. A releasable coupling (8) transmitting pulling forces is provided at the other free end of the band. The feed of tension takes place via the winding device (6) and/or via the releasable coupling means. During operation, the band is held tensioned by the winding device and, when the passageway is opened, is largely retracted into the winding device, so that the arrangement is automatically matched to widely differing passageway widths and danger to animals and humans in the cordoned-off region is minimised.

Classifications:

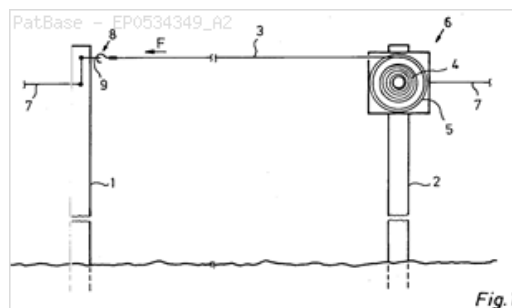
International (IPC 8-9): A01K3/00 (Advanced/Invention);

A01K3/00 (Core/Invention)

International (IPC 1-7): A01B3/00 A01K3/0 A01K3/00 B65H75/38
E05F15/10 E06B11/0 E06B11/00

CPC: A01K1/0017 A01K3/005

European: A01K1/00A2 A01K3/00C



Family:

Publication number	Publication date	Application number	Application date
DE4131580 A1	19930401	DE19914131580	19910923
DE9117145 U1	19960808	DE19910017145U	19910923
EP0534349 A2	19930331	EP19920116122	19920921
EP0534349 A3	19930505	EP19920116122	19920921

Priority:

DE19910017145U 19910923 DE19914131580 19910923

Probable Assignee: UDO WERNER FA

Assignee(s): (std): UDO WERNER FA

Assignee(s): FA UDO WERNER 4286 SUEDLOHN DE ; FA UDO WERNER 46354 SUEDLOHN DE ; FIRMA UDO WERNER ; UDO WERNER 46354 SUEDLOHN DE FA

Inventor(s): (std): WERNER UDO

Inventor(s): WERNER UDO 4286 SUEDLOHN DE

Designated states: AT BE CH DE FR LI NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE4131580 A1	19930401	LSPB	+	published / reissued	
DE4131580 A1	19930401	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE4131580 A1	19960321	LSRV	-8131	REJECTION	
DE9117145 U1	19960808	LSGT	+	granted / extensions (spc, cpc, pte)	
DE9117145 U1	20010923	PEXP		Calculated Patent Term Expiry	
EP0534349 A2	19930331	LSPB	+	published / reissued	
EP0534349 A3	19931124	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19930929
EP0534349 A3	19950927	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19950401

Title: INSULATORS

Abstract: 1512530 Wire support insulator AHI OPERATIONS LTD 30 Sept 1975 [1 Oct 1974] 39987/75 Heading H2C An insulating support comprises a part 4 slotted to receive a conductor and a sleeve 7 for insertion across the slot and for separating the fastener, e.g. nail 9, from part 4, the support being manufactured as a one-piece moulding, Fig. 1, and the sleeve being attached to the body by frangible sections 8. The body may have external corrugations. On striking the nail the frangible sections 8 fracture allowing the sleeve to enter the corresponding bore in the body, further blows completing the **assembly** as shown on Fig. 4,

Classifications:

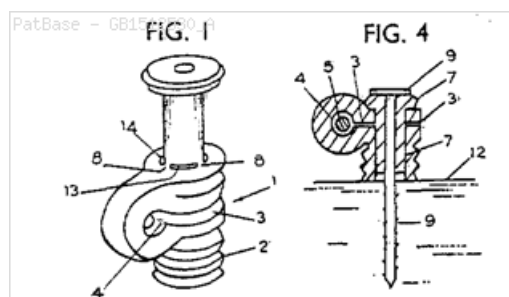
International (IPC 8-9): F16L3/123 H01B17/14 (Advanced/Invention);

F16L3/12 H01B17/14 (Core/Invention)

International (IPC 1-7): A01K3/00 H01B17/24

CPC: F16L3/1236 H01B17/145

European: F16L3/123C H01B17/14B



Family:

Publication number	Publication date	Application number	Application date
AU197585383 A1	19770407	AU19750085383	19751001
GB1512530 A	19780601	GB19750039987	19750930
IE41734 B	19800312	IE19750002121	19750929
IE41734 L	19760401	IE19750002121	19750929
NZ175576 A	19780428	NZ19740175576	19741001

Priority:

NZ19740175576 19741001

Probable Assignee: AHI OPERATIONS LTD

Assignee(s): (std) AHI OPERATION LTD ; AHI OPERATIONS LTD

Assignee(s): ALEX HARVEY IND LTD

Inventor(s): (std) MILLAR T ; MILLAR THOMAS DOUGLAS

Inventor(s): THOMAS DOUGLAS MILLAR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU197585383 A1	19770407	LSPB	+	published / reissued	
GB1512530 A	19780601	LSGT	+	granted / extensions (spc, cpc, pte)	
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GB1512530 A	19820506	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1512530 A	19950930	PEXP		Calculated Patent Term Expiry	
IE41734 B	19800312	LSGT	+	granted / extensions (spc, cpc, pte)	
IE41734 B	19950929	PEXP		Calculated Patent Term Expiry	
NZ175576 A	19780428	LSPB	+	published / reissued	

Title: MANGER FOR ELECTRONICALLY CONTROLLED ANIMAL FEED **ASSEMBLY** - USES SIGNAL PULSES, GENERATED BY CODE READ=OUT, FOR ACTUATION OF FEEDSTUFF GATE

Abstract: The animals to be served by the electronically controlled automatic feed **assembly** carry a neck band with, e.g. magnetically stored code number, readable by the feed **assembly** electronic system. After this read-out the electronic system generates signal pulses for starting the feed process, which control an actuator of a closure gate (8). The feeding signal pulse is pref. converted into a control signal for the gate closure by a control circuit. This circuit has an adjustable timing switchgear (Z), settable repeatedly to zero by each arriving signal pulse. After the adjusted time phase a control signal for the gate opening is generated. The gate movement may be carried out by an **electric** motor (10) driven rope or chain **assembly** (11). The gate may be in the form of a flat gate swivelling from inside to outside.

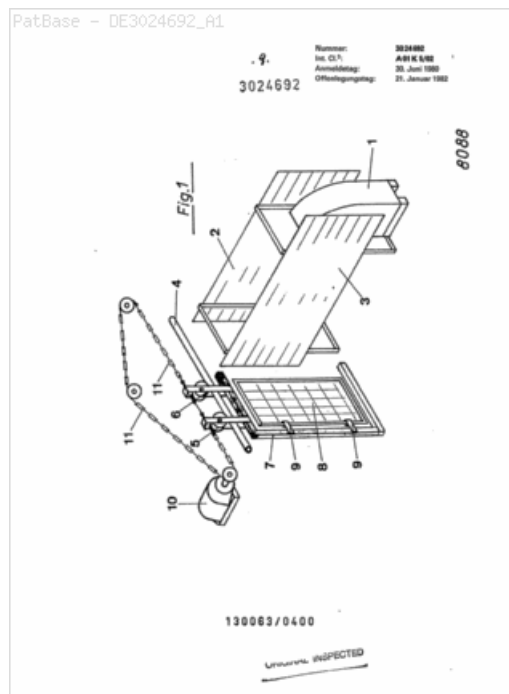
Classifications:

International (IPC 8-9): A01K1/02 A01K11/00 (Advanced/Invention);
A01K1/02 A01K11/00 (Core/Invention)

International (IPC 1-7): A01K1/10 A01K5/02

CPC: A01K1/0209 A01K11/006

European: A01K1/02A A01K11/00C



Family:

Publication number	Publication date	Application number	Application date
DE3024692 A1	19820121	DE19803024692	19800630

Priority:

DE19803024692 19800630

Probable Assignee: BOHNE ERNST DIETER

Assignee(s): (std): BOHNE ERNST DIETER

Inventor(s): (std): BOHNE ERNST DIETER

Inventor(s): DIETER BOHNE ERNST

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3024692 A1	19820121	LSPB	+	published / reissued	
DE3024692 A1	19820121	LSSES	+OM8	SEARCH REPORT AVAILABLE AS TO PARAGRAPH 43 LIT. 1 SENTENCE 1 PATENT LAW	
DE3024692 A1	19830818	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	

Title: RUMINANT TISSUE ANALYSIS AT PACKING PLANTS FOR ELECTRONIC CATTLE MANAGEMENT AND GRADING MEAT

Abstract: A method is described comprising stunning a ruminant at a packing plant, and thereafter measuring tissue characteristics of the ruminant using a tissue imaging and analysis device prior to processing the ruminant to a carcass. Working embodiments of the method have used an ultrasound tissue imaging and analysis device, although other analyses also can be performed. The ultrasound analysis can be performed by one operator, or plural operators. For example, if the device is an ultrasound tissue analysis device, the step of conveying may first comprise conveying the ruminant to a position adjacent a first operator. The first operator applies an ultrasound image enhancing fluid to the ruminant's hide, and a second operator places the ultrasound tissue analysis device adjacent the enhancing fluid and performs ultrasound tissue imaging and analysis on the ruminant. The method can be used to, amongst other things, measure backfat and rib eye dimensions, obtain an ultrasound image, and determine rib eye area and marbling using the measured tissue characteristics. This data can then be used to perform grading calculations, such as to determine quality and/or yield grades. A method for processing and managing ruminants and ruminant products in feedlots and packing plants also is described comprising first measuring internal tissue characteristics and/or external body dimensions of ruminants at a feedlot. Information obtained concerning each ruminant is stored in a computer or on computer-readable medium. These ruminants are then fed at the feedlot, and then shipped to a packing plant where tissue characteristics of stunned ruminants are measured using a tissue imaging and analysis device prior to processing the ruminants to carcasses. Yield and quality values are determined in real time for each ruminant based on measurements made at the feedlot and packing plant.

Classifications:

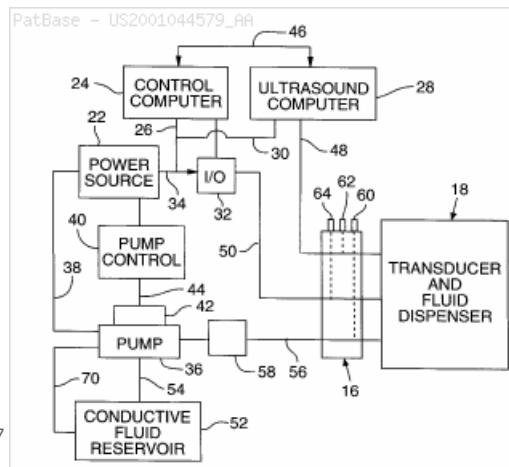
International (IPC 8-9): A01K1/00 A01K1/10 A01K11/00 A01K15/02 A01K29/00 A01K3/00 A01K39/00 A01K5/00 A01K5/02 A01K7/00 A22B5/00 A61B8/08 G06F17/00 G06F17/40 G06Q10/00 G06Q10/06 G06Q10/08 G06Q40/00 G06Q50/00 G06Q50/22 (Advanced/Invention); A23K1/16 A23K1/165 A61B8/08 (Advanced/Non-invention); A01K1/00 A01K11/00 A01K29/00 A22B5/00 A61B8/08 G06F17/00 (Core/Invention); A61B8/08 (Core/Non-invention)

International (IPC 1-7): A01K1/00 A01K1/10 A01K11/00 A01K29/00 A01K3/00 A01K39/00 A01K5/00 A01K5/02 A22B3/00 A61B8/00 G06F17/00 G06F17/40 G06F17/60

CPC: A01K5/02 A01K1/0023 A01K1/0209 A01K11/006 A01K29/005 G06Q10/063 G06Q10/0637 G06Q10/087 A61B8/461 A61B8/4218 G06Q40/12 A01K29/00 A22B5/007 A61B8/0858 A61B8/467 G01N29/226 G01N2291/02475 G01N2291/02483

European: A01K1/00A2A A01K1/02A A01K11/00C A01K29/00 A01K29/00B A22B5/00C2 A61B8/08J A61B8/46D G06Q10/063 G06Q10/0637 G06Q10/087 G06Q50/22 K61B8/08J

US: 119/502 119/51.01 119/51.02 119/51.020P 119/511 119/712 119/720 119/720S 119/840 119/840S 119/842 128/660.07 452/52 452/57 600/437 600/437P 600/443 600/459 600/459S 705/1 705/1.1 705/1.100P 705/1.100S 705/2 705/28 705/28P 705/28S 705/2S 705/30 705/7.11 705/7.110P 705/7.31 705/7.36 705/7.360P

**Family:**

Publication number	Publication date	Application number	Application date
AU199534570 A1	19960509	AU19950034570	19951031
AU199878688 A1	19981001	AU19980078688	19980730
AU200124768 A1	20010712	AU20010024768	20010228
AU200124768 A5	20010712	AU20010024768	20010228
AU2004205259 AA	20040923	AU20040205259	20040826
AU2004205259 BB	20080612	AU20040205259	20040826
AU690741 B2	19980430	AU19950034570	19951031
AU727101 B2	20001130	AU19980078688	19980730
AU775809 B2	20040819	AU20010024768	20010228
CA2161749 AA	19960501	CA19952161749	19951030
CA2161749 C	20100914	CA19952161749	19951030
CA2627835 AA	19960501	CA19952627835	19951030
CA2627835 C	20110118	CA19952627835	19951030
CA2719886 AA	19960501	CA19952719886	19951030
US2001044579 AA	20011122	US20010802743	20010308
US2002050248 AA	20020502	US20010967151	20010927
US2003188689 AA	20031009	US20020323115	20021218
US2005000458 AA	20050106	US20040903963	20040730
US2007131175 AA	20070614	US20070701655	20070202
US2007157888 AA	20070712	US20070701656	20070202
US2008190369 AA	20080814	US20080030092	20080212
US2008270173 AA	20081030	US20080167407	20080703
US2009031960 AA	20090205	US20080251906	20081015
US2009031961 AA	20090205	US20080251927	20081015
US2009307111 AA	20091210	US20090417548	20090402
US2011161125 AA	20110630	US20100854080	20100810
US2012158463 AA	20120621	US20110215983	20110823
US2013151310 AA	20130613	US20120584556	20120813
US5573002 A	19961112	US19950395931	19950227
US5673647 A	19971007	US19940332563	19941031
US5836880 A	19981117	US19960748220	19961112
US6000361 A	19991214	US19970838768	19970410
US6135055 A	20001024	US19990227171	19990107
US6200210 BA	20010313	US19980190916	19981112

US6318289 BA	20011120	US19990426412	19991025
US6516746 BB	20030211	US20010967151	20010927
US6579236 BB	20030617	US20010802743	20010308
US6805075 BB	20041019	US20020323115	20021218
US7347161 BB	20080325	US20040903963	20040730
US7464666 BB	20081216	US20070701655	20070202
US7464667 BB	20081216	US20070701656	20070202
US7607405 BB	20091027	US20080030092	20080212
US7726258 BB	20100601	US20080167407	20080703
US7748345 BB	20100706	US20090417548	20090402
US7827934 BB	20101109	US20080251906	20081015
US7836849 BB	20101123	US20080251927	20081015
US8028657 BB	20111004	US20100854080	20100810
US8261694 BB	20120911	US20110215983	20110823
US8474405 BA	20130702	US20120584556	20120813

Priority:

US19940332563 19941031	US19950395931 19950227	CA19952627835 19951030
CA19952161749 19951030	AU19950034570 19951031	US19960748220 19961112
US19970838768 19970410	AU19980078688 19980730	US19980190916 19981112
US19990227171 19990107	US19990426412 19991025	AU20010024768 20010228
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US20090417548 20090402	US20100854080 20100810	US20110215983 20110823
US20120584556 20120813		

Probable Assignee: MWI VETERINARY SUPPLY CO

Assignee(s): (std): MICRO BEEF TECHNOLOGIES LTD ; MICRO CHEMICAL INC ; MWI VETERINARY SUPPLY CO ; PRATT WILLIAM C ; MICRO BEEF TECHNOLOGIES INC

Assignee(s): BANK OF AMERICA NA

Inventor(s): (std): PRATT WILLIAM C

Inventor(s): WILLIAM C PRATT ; PRATT WILLIAM

Agent(s): ASPEN PHARMA PTY LTD; SPRUSON AND FERGUSON; OYEN WIGGS GREEN AND MUTALA LLP; KLARQUIST SPARKMAN LLP; KLARQUIST SPARKMAN CAMPBELL LEIGH AND WHINSTON LLP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199534570 A1	19960509	LSPB	+	published / reissued	
AU199878688 A1	19981001	LSPB	+	published / reissued	
AU200124768 A1	20010712	LSPB	+	published / reissued	
AU200124768 A1	20030313	LSAS	TC	CHANGE OF APPLICANT'S NAME (SEC. 104)	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD. OLDPARTY : FORMER NAME: MICRO BEEF TECHNOLOGIES, INC.
AU2004205259 AA	20040923	LSPB	+	published / reissued	
AU2004205259 BB	20080612	LSGT	+	granted / extensions (spc, cpc, pte)	
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AU2004205259 BB	20151119	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2004205259 BB	20240826	PEXP		Calculated Patent Term Expiry	
AU690741 B2	19980430	LSGT	+	granted / extensions (spc, cpc, pte)	

AU690741 B2	20000706	LSAS	HB	ALTERATION OF NAME IN REGISTER	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC. OLDPARTY : FORMER NAME WAS: MICRO CHEMICAL, INC.
AU690741 B2	20030327	LSAS	HB	ALTERATION OF NAME IN REGISTER	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD. OLDPARTY : FORMER NAME WAS: MICRO BEEF TECHNOLOGIES, INC.
AU690741 B2	20151031	PEXP		Calculated Patent Term Expiry	
AU727101 B2	20001130	LSGT	+	granted / extensions (spc, cpc, pte)	
AU727101 B2	20000706	LSAS	TC	CHANGE OF APPLICANT'S NAME (SEC. 104)	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC. OLDPARTY : FORMER NAME: MICRO CHEMICAL, INC.
AU727101 B2	20010329	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU727101 B2	20030327	LSAS	HB	ALTERATION OF NAME IN REGISTER	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD. OLDPARTY : FORMER NAME WAS: MICRO BEEF TECHNOLOGIES, INC.
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CA2161749 C	20160103	LSLE	-MKEX	EXPIRY	EFFECTIVE DATE : 20151030
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CA2627835 C	20151030	PEXP		Calculated Patent Term Expiry	
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CA2719886 AA	20130109	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20101101
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US2001044579 AA	20011122	LSPB	+	published / reissued	
US2001044579 AA	20030529	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

US2002050248 AA	20020502	LSPB	+	published / reissued	
US2003188689 AA	20031009	LSPB	+	published / reissued	
US2005000458 AA	20050106	LSPB	+	published / reissued	
US2005000458 AA	20050428	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:016183/0943 EFFECTIVE DATE : 19941214
US2005000458 AA	20050822	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:016657/0682 EFFECTIVE DATE : 19991207
US2005000458 AA	20051110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:016998/0234 EFFECTIVE DATE : 20001018
US2007131175 AA	20070614	LSPB	+	published / reissued	
US2007157888 AA	20070712	LSPB	+	published / reissued	
US2008190369 AA	20080814	LSPB	+	published / reissued	
US2008190369 AA	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US2008190369 AA	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US2008270173 AA	20081030	LSPB	+	published / reissued	
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US2008270173 AA	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US2009031960 AA	20090205	LSPB	+	published / reissued	
US2009031961 AA	20090205	LSPB	+	published / reissued	
US2009307111 AA	20091210	LSPB	+	published / reissued	
US2011161125 AA	20110630	LSPB	+	published / reissued	

US2012158463 AA	20120621	LSPB	+	published / reissued	
US2013151310 AA	20130613	LSPB	+	published / reissued	
US5573002 A	19961112	LSGT	+	granted / extensions (spc, cpc, pte)	
US5573002 A	19950508	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:007536/0732 EFFECTIVE DATE : 19950503
US5573002 A	19961101	LSGT	PAT1	Patented Case	
US5573002 A	19961101	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5573002 A	20000501	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
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US5573002 A	20040408	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5573002 A	20080502	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5573002 A	20110824	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:026803/0513 EFFECTIVE DATE : 20001017
US5573002 A	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US5573002 A	20150227	PEXP		Calculated Patent Term Expiry	
US5673647 A	19971007	LSGT	+	granted / extensions (spc, cpc, pte)	
US5673647 A	19941222	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:007266/0095 EFFECTIVE DATE : 19941214
US5673647 A	19970922	LSGT	PAT1	Patented Case	
US5673647 A	19970922	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5673647 A	20010322	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US5673647 A	20020305	LSRE	CC	CERTIFICATE OF CORRECTION	
US5673647 A	20021217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:013578/0760 EFFECTIVE DATE : 19991206
US5673647 A	20050309	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5673647 A	20090311	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5673647 A	20110824	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:026803/0513 EFFECTIVE DATE : 20001017
US5673647 A	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US5673647 A	20141031	PEXP		Calculated Patent Term Expiry	
US5836880 A	19981117	LSGT	+	granted / extensions (spc, cpc, pte)	
US5836880 A	19970228	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:008390/0865 EFFECTIVE DATE : 19970219
US5836880 A	19981013	LSGT	PAT1	Patented Case	
US5836880 A	19981013	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5836880 A	20020213	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:012607/0384 EFFECTIVE DATE : 20001018
US5836880 A	20020426	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5836880 A	20021217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:013578/0760 EFFECTIVE DATE : 19991206
US5836880 A	20030127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., CALIFORNIA OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:013691/0619 EFFECTIVE DATE : 20030110
US5836880 A	20060421	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5836880 A	20100503	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5836880 A	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO

					OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031	
US5836880 A	20161112	PEXP		Calculated Patent Term Expiry		
US6000361 A	19991214	LSGT	+	granted / extensions (spc, cpc, pte)		
US6000361 A	19991206	LSGT	PAT1	Patented Case		
US6000361 A	19991206	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE	
US6000361 A	20021217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:013578/0760 EFFECTIVE DATE : 19991206	
US6000361 A	20030127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., CALIFORNIA OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:013691/0619 EFFECTIVE DATE : 20030110	
US6000361 A	20030520	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6000361 A	20070518	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US6000361 A	20110518	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12	
US6000361 A	20110824	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:026803/0513 EFFECTIVE DATE : 20001017	
US6000361 A	20110825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:026809/0684 EFFECTIVE DATE : 19941214	
US6000361 A	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031	
US6000361 A	20170410	PEXP		Calculated Patent Term Expiry		
US6135055 A	20001024	LSGT	+	granted / extensions (spc, cpc, pte)		
US6135055 A	20001006	LSGT	PAT1	Patented Case		
US6135055 A	20001006	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE	
US6135055 A	20010723	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:012014/0175 EFFECTIVE DATE : 20010718	

US6135055 A	20030127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., CALIFORNIA OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:013691/0619 EFFECTIVE DATE : 20030110
US6135055 A	20040317	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6135055 A	20080411	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6135055 A	20080502	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CORRECTIVE ASSIGNMENT TO CORRECT THE APPLICATION NO. FROM 09/224,171 TO 09/227,171 PREVIOUSLY RECORDED ON REEL 010787 FRAME 0960. ASSIGNOR(S) HEREBY CONFIRMS THE CHANGE OF NAME EXECUTED DECEMBER 7, 1999.; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:020886/0817 EFFECTIVE DATE : 19991207
US6135055 A	20110825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:026809/0684 EFFECTIVE DATE : 19941214
US6135055 A	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6135055 A	20120411	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6135055 A	20190107	PEXP		Calculated Patent Term Expiry	
US6200210 BA	20010313	LSGT	+	granted / extensions (spc, cpc, pte)	
US6200210 BA	19990201	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:009757/0799 EFFECTIVE DATE : 19990121
US6200210 BA	20001130	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:011332/0470 EFFECTIVE DATE : 19991206
US6200210 BA	20010222	LSGT	PAT1	Patented Case	
US6200210 BA	20010222	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6200210 BA	20030127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., CALIFORNIA OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:013691/0619 EFFECTIVE DATE : 20030110
US6200210 BA	20040825	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4

US6200210 BA	20080903	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6200210 BA	20110824	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:026803/0513 EFFECTIVE DATE : 20001017
US6200210 BA	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6200210 BA	20120829	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6200210 BA	20181112	PEXP		Calculated Patent Term Expiry	
US6318289 BA	20011120	LSGT	+	granted / extensions (spc, cpc, pte)	
US6318289 BA	20010604	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:011882/0224 EFFECTIVE DATE : 20001018
US6318289 BA	20011101	LSGT	PAT1	Patented Case	
US6318289 BA	20011101	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6318289 BA	20030127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : BANK OF AMERICA, N.A., CALIFORNIA OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:013691/0619 EFFECTIVE DATE : 20030110
US6318289 BA	20050104	LSRE	CC	CERTIFICATE OF CORRECTION	
US6318289 BA	20050428	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6318289 BA	20090422	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6318289 BA	20110825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:026809/0684 EFFECTIVE DATE : 19941214
US6318289 BA	20110825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:026811/0084 EFFECTIVE DATE : 19991206
US6318289 BA	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6318289 BA	20130307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12

US6318289 BA	20191025	PEXP		Calculated Patent Term Expiry	
US6516746 BB	20030211	LSGT	+	granted / extensions (spc, cpc, pte)	
US6516746 BB	20010604	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:012226/0217 EFFECTIVE DATE : 19941214
US6516746 BB	20060803	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6516746 BB	20100714	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6516746 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6516746 BB	20150211	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6516746 BB	20150309	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6516746 BB	20150309	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6516746 BB	20150331	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150211
US6516746 BB	20210927	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US6579236 BB	20030617	LSGT	+	granted / extensions (spc, cpc, pte)	
US6579236 BB	20010702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:011946/0201 EFFECTIVE DATE : 20010620
US6579236 BB	20030529	LSGT	PAT1	Patented Case	
US6579236 BB	20051227	LSRE	CC	CERTIFICATE OF CORRECTION	
US6579236 BB	20061127	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6579236 BB	20101203	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6579236 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6579236 BB	20141212	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6579236 BB	20210308	PEXP		Calculated Patent Term Expiry	

US6805075 BB	20041019	LSGT	+	granted / extensions (spc, cpc, pte)	
US6805075 BB	20021218	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:013596/0210 EFFECTIVE DATE : 19941214
US6805075 BB	20040930	LSGT	PAT1	Patented Case	
US6805075 BB	20080404	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6805075 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US6805075 BB	20120404	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6805075 BB	20161019	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6805075 BB	20161114	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6805075 BB	20161114	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6805075 BB	20161206	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20161019
US6805075 BB	20221218	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7347161 BB	20080325	LSGT	+	granted / extensions (spc, cpc, pte)	
US7347161 BB	20080305	LSGT	PAT1	Patented Case	
US7347161 BB	20110824	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7347161 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7347161 BB	20160325	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7347161 BB	20160425	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7347161 BB	20160425	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7347161 BB	20160517	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160325
US7347161 BB	20240730	PEXP		Calculated Patent Term Expiry	
US7464666 BB	20081216	LSGT	+	granted / extensions (spc, cpc, pte)	

US7464666 BB	20081125	LSGT	PAT1	Patented Case	
US7464666 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7464666 BB	20120523	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7464666 BB	20161216	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7464666 BB	20170116	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7464666 BB	20170116	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7464666 BB	20170207	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20161216
US7464666 BB	20270202	PEXP		Calculated Patent Term Expiry	
US7464667 BB	20081216	LSGT	+	granted / extensions (spc, cpc, pte)	
US7464667 BB	20081125	LSGT	PAT1	Patented Case	
US7464667 BB	20110209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, INC., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO CHEMICAL, INC.; REEL/FRAME:025778/0427 EFFECTIVE DATE : 19991206
US7464667 BB	20110209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : CHANGE OF NAME; ASSIGNOR:MICRO BEEF TECHNOLOGIES, INC.; REEL/FRAME:025778/0459 EFFECTIVE DATE : 20001018
US7464667 BB	20110209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO CHEMICAL, INC., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:025778/0849 EFFECTIVE DATE : 19941214
US7464667 BB	20110315	LSRE	CC	CERTIFICATE OF CORRECTION	
US7464667 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7464667 BB	20120523	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7464667 BB	20161216	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7464667 BB	20170116	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7464667 BB	20170116	LSLE	-STCH	INFORMATION ON	TEXT : PATENT EXPIRED DUE TO

				STATUS: PATENT DISCONTINUATION	NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7464667 BB	20170207	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20161216
US7464667 BB	20270202	PEXP		Calculated Patent Term Expiry	
US7607405 BB	20091027	LSGT	+	granted / extensions (spc, cpc, pte)	
US7607405 BB	20091007	LSGT	PAT1	Patented Case	
US7607405 BB	20110322	LSRE	CC	CERTIFICATE OF CORRECTION	
US7607405 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7607405 BB	20130307	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7607405 BB	20171127	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7607405 BB	20171127	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7607405 BB	20171127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7607405 BB	20171219	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20171027
US7607405 BB	20280212	PEXP		Calculated Patent Term Expiry	
US7726258 BB	20100601	LSGT	+	granted / extensions (spc, cpc, pte)	
US7726258 BB	20100512	LSGT	PAT1	Patented Case	
US7726258 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7726258 BB	20131120	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7726258 BB	20180115	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7726258 BB	20180702	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7726258 BB	20180702	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7726258 BB	20180702	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7726258 BB	20180724	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180601

US7726258 BB	20280703	PEXP		Calculated Patent Term Expiry	
US7748345 BB	20100706	LSGT	+	granted / extensions (spc, cpc, pte)	
US7748345 BB	20090914	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:023228/0725 EFFECTIVE DATE : 20081030
US7748345 BB	20100616	LSGT	PAT1	Patented Case	
US7748345 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7748345 BB	20131211	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7748345 BB	20180219	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7748345 BB	20180806	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7748345 BB	20180806	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7748345 BB	20180806	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7748345 BB	20180828	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180706
US7748345 BB	20290402	PEXP		Calculated Patent Term Expiry	
US7827934 BB	20101109	LSGT	+	granted / extensions (spc, cpc, pte)	
US7827934 BB	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US7827934 BB	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US7827934 BB	20101020	LSGT	PAT1	Patented Case	
US7827934 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7827934 BB	20140423	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7827934 BB	20180625	LSFE	FEPP	FEE PAYMENT	TEXT : MAINTENANCE FEE REMINDER

				PROCEDURE	MAILED (ORIGINAL EVENT CODE: REM.)
US7827934 BB	20181217	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7827934 BB	20181217	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7827934 BB	20181217	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7827934 BB	20190108	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20181109
US7827934 BB	20290330	PEXP		Calculated Patent Term Expiry (PTA 166 days and a terminal disclaimer has been filed)	
US7836849 BB	20101123	LSGT	+	granted / extensions (spc, cpc, pte)	
US7836849 BB	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US7836849 BB	20081107	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:021804/0416 EFFECTIVE DATE : 20081030
US7836849 BB	20101103	LSGT	PAT1	Patented Case	
US7836849 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US7836849 BB	20140423	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7836849 BB	20180709	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7836849 BB	20181231	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7836849 BB	20181231	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7836849 BB	20181231	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7836849 BB	20190122	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20181123
US7836849 BB	20281015	PEXP		Calculated Patent Term Expiry	

US8028657 BB	20111004	LSGT	+	granted / extensions (spc, cpc, pte)	
US8028657 BB	20100907	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:024948/0052 EFFECTIVE DATE : 20081030
US8028657 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US8028657 BB	20121023	LSRE	CC	CERTIFICATE OF CORRECTION	
US8028657 BB	20151004	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8028657 BB	20151102	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8028657 BB	20151102	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8028657 BB	20151124	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20151004
US8028657 BB	20300810	PEXP		Calculated Patent Term Expiry	
US8261694 BB	20120911	LSGT	+	granted / extensions (spc, cpc, pte)	
US8261694 BB	20110824	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MICRO BEEF TECHNOLOGIES, LTD., TEXAS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:PRATT, WILLIAM C.; REEL/FRAME:026802/0811 EFFECTIVE DATE : 20081030
US8261694 BB	20120322	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MWI VETERINARY SUPPLY CO., IDAHO OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MICRO BEEF TECHNOLOGIES, LTD.; REEL/FRAME:027913/0213 EFFECTIVE DATE : 20111031
US8261694 BB	20120822	LSGT	PAT1	Patented Case	
US8261694 BB	20160911	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8261694 BB	20161010	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8261694 BB	20161010	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8261694 BB	20161101	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20160911
US8261694 BB	20310823	PEXP		Calculated Patent Term Expiry	
US8474405 BA	20130702	LSGT	+	granted / extensions (spc,	

cpc, pte)					
US8474405 BA	20130612	LSGT	PAT1	Patented Case	
US8474405 BA	20170702	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US8474405 BA	20170731	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US8474405 BA	20170731	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US8474405 BA	20170822	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20170702
US8474405 BA	20320813	PEXP		Calculated Patent Term Expiry	

US20020387934P 20020612	US20020388022P 20020612	US20020388096P 20020612
US20020388479P 20020612	US20020387960P 20020612	US20020388432P 20020612
US20020389123P 20020613	US20020389120P 20020614	US20020389146P 20020614
US20020389742P 20020617	US20020389604P 20020618	US20020389884P 20020618
US20020390006P 20020619	US20020390144P 20020619	US20020390209P 20020619
US20020391726P 20020625	US20020401628P 20020806	US20020402268P 20020809
US20020402822P 20020812	US20020403458P 20020813	US20020403617P 20020815
US20020403732P 20020815	US20020406182P 20020826	US20020410085P 20020912
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US20020420718P 20021023	US20020420627P 20021023	US20020420852P 20021024
US20020422750P 20021031	US20020423095P 20021101	US20020423748P 20021105
US20030455772 20030604	US20040557978P 20040330	US20050096051 20050330

Probable Assignee: CURAGEN CORP

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Inventor(s): WOLENC ADAM ; SZEKERES EDWARD SJR ; VERNET CORINE A ; SZEKERES EDWARD ; SZEKERES EDWARD S

Agent(s): RIDOUT AND MAYBEE LLP; CURAGEN CORP; JENELL LAWSON, INTELLECTUAL PROPERTY; JENELL LAWSON INTELLECTUAL PROPERTY; MEI L

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 SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2433439 AA	20030627	LSPB	+	published / reissued	
CA2433439 AA	20061207	LSSES	+EEER	EXAMINATION REQUEST	
CA2433439 AA	20081231	LSLE	-FZDE	DEAD	
EP1354042 A2	20031022	LSPB	+	published / reissued	
EP1354042 A2	20031022	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030725
EP1354042 A2	20070926	LSWD	-18W	APPLICATION WITHDRAWN	EFFECTIVE DATE : 20070816
JP2005500815 T2	20050113	LSPB	+	published / reissued	
JP2005500815 T2	20041209	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20041208
JP2005500815 T2	20080813	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080812
JP2005500815 T2	20090220	LSRV	-A02	DECISION OF	TEXT : JAPANESE INTERMEDIATE

REFUSAL					CODE: A02 EFFECTIVE DATE : 20090219
US2004022781 AA	20040205	LSPB	+	published / reissued	
US2005244868 AA	20051103	LSPB	+	published / reissued	
US2005244868 AA	20050616	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURAGEN CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:KEKUDA, RAMESH; MACLACHLAN, TIMOTHY; PATTURAJAN, MEERA; AND OTHERS; REEL/FRAME:016702/0692; SIGNING DATES FROM 20050517 TO 20050526
US2005244868 AA	20071228	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2006084054 AA	20060420	LSPB	+	published / reissued	
US2006084054 AA	20040409	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURAGEN CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:ALSOBROOK, JOHN; BERGHS, CONSTANCE; BOLDOG, FERENC; AND OTHERS; REEL/FRAME:015261/0381; SIGNING DATES FROM 20030604 TO 20040405
US2006084054 AA	20040412	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURAGEN CORPORATION, CONNECTICUT OLDPARTY : EMPLOYMENT AGREEMENT; ASSIGNORS:JI, WEIZHEN; BAUMGARTNER, JASON; REEL/FRAME:015199/0158; SIGNING DATES FROM 19990804 TO 20010730
US2006084054 AA	20071015	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US7276593 BB	20071002	LSGT	+	granted / extensions (spc, cpc, pte)	
US7276593 BB	20021017	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : CURAGEN CORPORATION, CONNECTICUT OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:SPYTEK, KIMBERLY A.; LI, LI; WOLENC, ADAM; AND OTHERS; REEL/FRAME:013400/0096; SIGNING DATES FROM 20020401 TO 20020516
US7276593 BB	20111002	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7276593 BB	20111031	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7276593 BB	20111031	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7276593 BB	20111122	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20111002
US7276593 BB	20221227	PEXP		Calculated Patent Term Expiry (PTA 361 days)	
WO02062999 A2	20020815	LSPB	+	published / reissued	
WO02062999 A3	20031022	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001999178 COUNTRY OF REF DOCUMENT : EP
WO02062999 A3	20031106	LSWD	REG	REFERENCE TO	REF COUNTRY CODE : DE

				NATIONAL CODE	REF LEGAL EVENT CODE : 8642
WO02062999 A3	20070816	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001999178 COUNTRY OF REF DOCUMENT : EP
WO02062999 C1	20020926	LSRE	CR1	CORRECTION OF ENTRY IN SECTION I	TEXT : PAT. BUL. 33/2002 UNDER (30) REPLACE "60/279833, 20010329, IS" BY "60/279833, 20010329, US"
WO02062999 C1	20030627	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2433439 COUNTRY OF REF DOCUMENT : CA
WO02062999 C1	20030627	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002562736 COUNTRY OF REF DOCUMENT : JP
WO02062999 C1	20030725	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001999178 COUNTRY OF REF DOCUMENT : EP
WO02062999 C1	20030728	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002251702 COUNTRY OF REF DOCUMENT : AU
WO05094365 A2	20051013	LSPB	+	published / reissued	
WO05094365 A3	20061003	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO05094365 A3	20061003	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05094365 A3	20070523	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: Device for supplying voltage to **electric fence** has clock generator for timing voltage or current pulses, phase coupled to mains voltage as reference voltage in synchronized manner

Abstract: The device has a clock generator (14) for timing of voltage or current pulses applied to the **fence**. The clock generator is phase coupled to the mains voltage as a reference voltage in synchronized manner. The clock for the pulses is generated by summing mains oscillations or by frequency divider from the mains frequency.

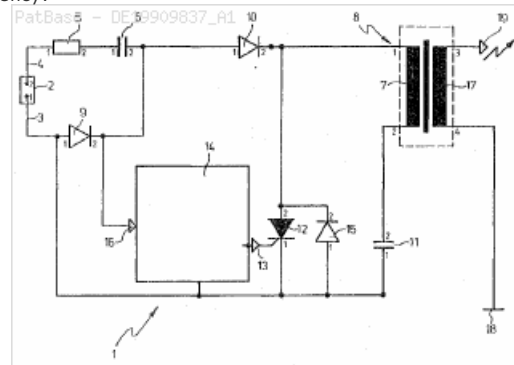
Classifications:

International (IPC 8-9): H05C 1/04 (Advanced/Invention);
H05C 1/00 (Core/Invention)

International (IPC 1-7): A01K3/00 H05C 1/04

CPC: H05C 1/04

European: H05C 1/04



Family:

Publication number	Publication date	Application number	Application date
DE19909837 A1	20000907	DE19991009837	19990305

Priority:

DE19991009837 19990305

Probable Assignee:

AKO AGRARTECH GMBH AND CO KG

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Assignee(s):

AKO AGRARTECHNIK GMBH AND CO KG

Inventor(s): (std):

FEHSE WOLFGANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE19909837 A1	20000907	LSPB	+	published / reissued	
DE19909837 A1	20000907	LSSES	+OM8	SEARCH REPORT AVAILABLE AS TO PARAGRAPH 43 LIT. 1 SENTENCE 1 PATENT LAW	
DE19909837 A1	20001012	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	PARTYTYPE : OWNER OWNER : AKO- AGRARTECHNIK GMBH & CO. KG, 88239 WANGEN, DE
DE19909837 A1	20060323	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE19909837 A1	20071018	LSRV	-8131	REJECTION	

Title: VORRICHTUNG ZUM AUF- UND ABWICKELN VON INSBESONDERE WEIDEZAUNBAENDERN UND -LITZEN MIT EINER WICKELTROMMEL Device FOR WINDING UP AND UNWINDING OF, IN PARTICULAR, pasture **fence** bands and stranded conductors, WITH A WINDING DRUM (Machine translation)

Abstract: Source: DE9418493U1 [DE] (Claim 1) 1. Vorrichtung zum Auf- und Abwickeln von insbesondere Weidezaunbaendern und -litzen mit einer Wickeltrommel, die eine Wickelhuelse und zwei Wickelscheiben aufweist, sowie einem Haltearm, der mit einem die Wickelhuelse durchgreifenden Wickeldorn und einem Handgriff versehen ist, wobei die durch die Betaetigung eines an einer Wickelscheibe angeordneten Handknaufs auf dem Wickeldorn drehbare Wickeltrommel mittels eines am Haltearm angeordneten Arretierstift am Haltearm drehblockierbar ist, dadurch gekennzeichnet, dass der Handgriff (14) ein Griffelement (18) aufweist, dessen Griffachse nahezu im rechten Winkel zu einer Laengsachse (a) des Wickeldornes (13) verlaeuft und im wesentlichen mittig ueber der Wickeltrommel (12) angeordnet ist und dass der Haltearm (11) und die Wickeltrommel (12) mittels eines am freien Ende des Wickeldornes (13) angeordneten Sicherungselements loesbar miteinander verbunden sind.

Machine translation: (Claim 1) 1 Device for winding and unwinding of particular Weidezaunbaendern and strands with a winding drum, which has a Wickelhuelse and two winding wheels, and an arm which is equipped with one of the Wickelhuelse sweeping winding mandrel and a handle, with the operation of an on a winder arranged hand knob on the winding mandrel rotatable winding drum by means of a holding arm mounted locking pin on the arm drehblockierbar is characterized in that the handle (14) a gripping element (18) whose grip axis almost at right angles to a longitudinal axis (A) of the winding mandrel (13) and runs substantially centered over the winding drum (12) is arranged and that the holding arm (11) and the winding drum (12) using a free end of the winding mandrel (13) arranged fuse element are releasably connected together.

Classifications:

International (ipc 8-9): A01K3/00 B65H75/28

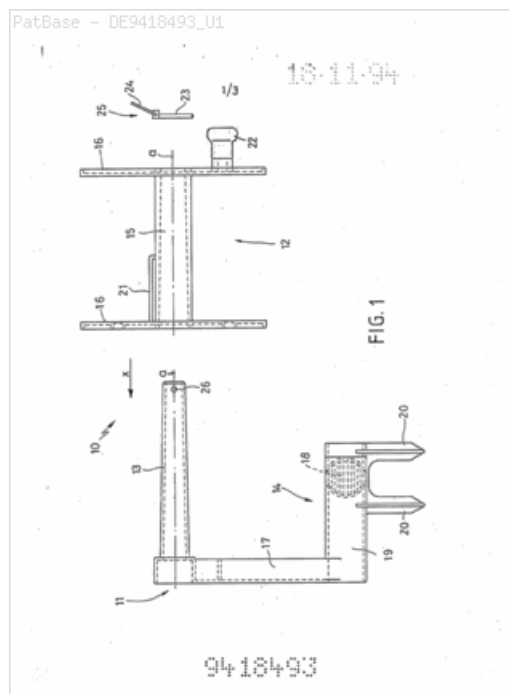
B65H75/40 (Advanced/Invention);

A01K3/00 B65H75/28 B65H75/38 (Core/Invention)

International (ipc 1-7): A01K3/00 B65H49/20 B65H75/40

CPC: B65H75/40 A01K3/00 B65H75/28

European: A01K3/00 B65H75/28 B65H75/40



Family:

Publication number	Publication date	Application number	Application date
DE9418493 U1	19950223	DE19940018493U	19941118

Priority:

DE19940018493U 19941118

Probable Assignee: LISTER LANDGERAETE AND KUEHL

Assignee(s): (std): LISTER LANDGERAETE AND KUEHL

Assignee(s): LISTER GMBH LANDGERAETE U KUEHLANLAGENFABRIK 58509 LUEDENSCHIED DE ; LISTER GMBH LANDGERAETE UND KUEHLANLAGENFABRIK 585 ; LISTER GMBH LANDGERAETE UND KUEHLANLAGENFABRIK 58509 LUEDENSCHIED DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE9418493 U1	19950223	LSGT	+	granted / extensions (spc, cpc, pte)	
DE9418493 U1	20041118	PEXP		Calculated Patent Term Expiry	

Title: Horse trailer and corral structure

Abstract: A horse trailer and corral structure which includes a horse trailer having opposed side walls and having doors at the rear side thereof. An **electric** power source is mounted on the trailer, as are brackets which support a plurality of insulator-carrying **fence** posts. The **fence** posts are demountably supported in the brackets on the trailer during transport of the trailer. A cable reel is mounted on the trailer and has an elongated electrical conductor reeled thereon for use in cooperation with the **fence** posts when a corral is to be set up using the **fence** posts.

Classifications:

International (IPC 8-9): A01K3/00 B60P3/04 (Advanced/Invention);

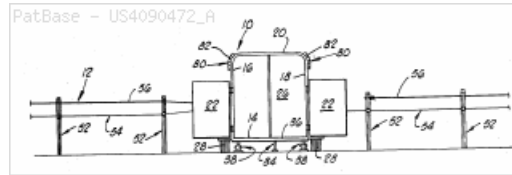
A01K3/00 B60P3/00 (Core/Invention)

International (IPC 1-7): A01K3/00

CPC: A01K3/005 B60P3/04

European: A01K3/00C B60P3/04

US: 119/20 119/502 256/10 256/41



Family:

Publication number	Publication date	Application number	Application date
US4090472 A	19780523	US19760737408	19761101

Priority:

US19760737408 19761101

Probable Assignee:

YORK LEON V

Assignee(s): (std):

YORK LEON V

Inventor(s): (std):

YORK LEON V

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4090472 A	19780523	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Method and apparatus to meter forage

Abstract: A method and apparatus to define a forage feeding area in a field whereby animals are restrained from walking on forage in the feeding area. Inclined posts are adjustably secured to sleds and electrically charged wire is stretched between the posts forming a feeding area defined on one side by a plane extending downwardly from the uppermost strand of wire. The sleds are moveable across a field of forage to control feeding areas accessible to animals.

Classifications:

International (IPC 8-9): A01K3/00 A01K5/00
A01K5/02 (Advanced/Invention);

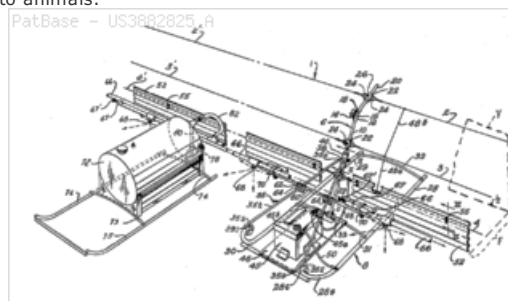
A01K3/00 A01K5/00 (Core/Invention)

International (IPC 1-7): A01K3/00

CPC: A01K3/005 A01K5/00 A01K5/0216

European: A01K3/00C A01K5/00 A01K5/02C

US: 119/20 119/502 256/21



Family:

Publication number	Publication date	Application number	Application date
US3882825 A	19750513	US19730367652	19730606

Priority:

US19730367652 19730606

Probable Assignee:

MCFADDEN VERGIL

Assignee(s): (std):

MCFADDEN VERGIL

Inventor(s): (std):

MCFADDEN VERGIL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3882825 A	19750513	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: **ASSEMBLY** FOR AND A METHOD OF FEEDING AND MILKING ANIMALS, A FEED PLATFORM, A MILKING PRE-TREATMENT DEVICE, A MILKING POST-TREATMENT DEVICE, A CLEANING DEVICE, A SEPARATION DEVICE AND A MILKING SYSTEM ALL SUITABLE FOR USE IN SUCH AN **ASSEMBLY**

Abstract: An **assembly** for feeding and milking animals is disclosed. The **assembly** comprises a feeding system with a movable feed platform and a drive unit for driving the feed platform. The feed platform is provided with a number of feeding places. The **assembly** further comprises a milking system for automatically milking animals on the feed platform, which milking system comprises sets of teat cups. At least a large number of the sets of teat cups is disposed separately from the feed platform.

Classifications:

International (IPC 8-9): A01J5/00 A01J5/003 A01J5/017 A01J7/04 A01K1/12 A01K5/00 (Advanced/Invention);

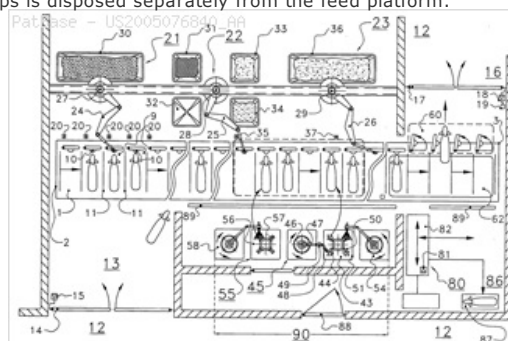
A01J5/00 A01J5/003 A01J7/00 A01K1/00 (Core/Invention)

International (IPC 1-7): A01J5/00 A01J5/017 A01J7/04 A01K1/12 A01K5/00

CPC: A01J5/017 A01J5/0175 A01J7/04 A01K1/12 A01K1/126

European: A01J5/017 A01J5/017A A01J7/04 A01K1/12 A01K1/12B

US: 119/14.02 119/14.03 119/14.04 119/14.18



Family:

Publication number	Publication date	Application number	Application date
AT424719 E	20090315	AT20040077700T	20040930
CA2484706 AA	20050413	CA20042484706	20041012
CA2484706 C	20111206	CA20042484706	20041012
DE602004019863 D1	20090423	DE200460019863T	20040930
DK1523882 T3	20090629	DK20040077700T	20040930
EP1523882 A2	20050420	EP20040077700	20040930
EP1523882 A3	20060503	EP20040077700	20040930
EP1523882 B1	20090311	EP20040077700	20040930
ES2324036 T3	20090729	ES20040077700T	20040930
NL1024518 C2	20050414	NL20031024518	20031013
NZ535846 A	20060728	NZ20040535846	20041008
PL1523882 T3	20090831	PL20040077700T	20040930
US2005076840 AA	20050414	US20040962601	20041013
US2008017119 AA	20080124	US20070889510	20070814
US7270078 BB	20070918	US20040962601	20041013
US7484474 BB	20090203	US20070889510	20070814

Priority:

NL20031024518 20031013 EP20040077700 20040930 CA20042484706 20041012
US20040962601 20041013 US20070889510 20070814

Probable Assignee: LELY ENTERPRISES AG

Assignee(s): (std): LELY ENTPR AG ; VAN DEN BERG KAREL ; BOS GREORGIUS RUDOLPHIUS

Assignee(s): LELY ENTERPRISES AG

Inventor(s): (std): VAN DEN BERG KAREL ; BOS GREORGIUS RUDOLPHIUS ; BOS GREORGIUS R ; BERG KAREL VAN DEN ; KAREL VAN DEN BERG ; GREORGIUS RUDOLPHIUS BOS

Inventor(s): BOS GREORGIUS

Agent(s): FETHERSTONHAUGH AND CO; CORTEN MAURICE JEAN FM ET AL; HOWREY SIMON ARNOLD AND WHITE LLP; HOWREY LLP; DAVID P; OWEN DAVID P

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT424719 E	20090315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT424719 E	20090915	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT424719 E	20240930	PEXP		Calculated Patent Term Expiry	
CA2484706 AA	20050413	LSPB	+	published / reissued	
CA2484706 AA	20090623	LSES	+EEER	EXAMINATION REQUEST	

CA2484706 AA	20161123	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20161012
CA2484706 C	20111206	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2484706 C	20241012	PEXP		Calculated Patent Term Expiry	
DE602004019863 D1	20091211	LSOP	R026	OPPOSITION FILED AGAINST PATENT	
DE602004019863 D1	20100311	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE602004019863 D1	20190402	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
DK1523882 T3	20090629	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1523882 T3	20240930	PEXP		Calculated Patent Term Expiry	
EP1523882 A2	20050420	LSPB	+	published / reissued	
EP1523882 A2	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 12
EP1523882 A2	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 13
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EP1523882 A3	20070110	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20061208
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TR					
EP1523882 A3	20080924	LSRE	RTI1	TITLE (CORRECTION)	TEXT : AN ASSEMBLY FOR AND A METHOD OF FEEDING AND MILKING ANIMALS
EP1523882 B1	20090311	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1523882 B1	20090311	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1523882 B1	20090313	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP1523882 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI 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 : 20090311
EP1523882 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT 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 : 20090311
EP1523882 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ 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 : 20090311
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EP1523882 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : RO

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EP1523882 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG 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 : 20090611
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EP1523882 B1	20100623	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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EP1523882 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
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EP1523882 B1	20101124	LSOP	-R26	OPPOSITION FILED (CORRECTED)	PARTY TYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L EFFECTIVE DATE : 20091211

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EP1523882 B1	20101231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20100903 YEAR OF FEE PAYMENT : 7
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				[ANNOUNCED FROM NATIONAL OFFICE TO EPO]	PAYMENT DATE : 20130927 YEAR OF FEE PAYMENT : 10
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EP1523882 B1	20150430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20150430
EP1523882 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1523882 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20131001
EP1523882 B1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1523882 B1	20160525	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20150930
EP1523882 B1	20160701	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160531
EP1523882 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523882 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523882 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151001
EP1523882 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160928

EP1523882 B1	20171130	LSFE	+PGFP	NATIONAL OFFICE TO EPO] ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	YEAR OF FEE PAYMENT : 13 COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
EP1523882 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
EP1523882 B1	20180803	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R100 REF DOCUMENT NUMBER : 602004019863 COUNTRY OF REF DOCUMENT : DE
EP1523882 B1	20181010	LSRE	+27C	OPPOSITION PROCEEDINGS TERMINATED	EFFECTIVE DATE : 20180803
EP1523882 B1	20181207	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20181207
EP1523882 B1	20190402	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 602004019863 COUNTRY OF REF DOCUMENT : DE
EP1523882 B1	20190528	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP1523882 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20190402
EP1523882 B1	20190731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20181001
EP1523882 B1	20240930	PEXP		Calculated Patent Term Expiry	
ES2324036 T3	20090729	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2324036 T3	20240930	PEXP		Calculated Patent Term Expiry	
NL1024518 C2	20050414	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1024518 C2	20050601	LSSE	+PD2B	A SEARCH REPORT HAS BEEN DRAWN UP	
NL1024518 C2	20120516	LSLE	-V1	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20120501
NL1024518 C2	20231013	PEXP		Calculated Patent Term Expiry	
NZ535846 A	20060728	LSPB	+	published / reissued	
NZ535846 A	20061130	LSGT	+PSEA	PATENT SEALED	
NZ535846 A	20081031	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535846 A	20111125	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535846 A	20140926	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 08 OCT 2015 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20140918
NZ535846 A	20160429	LSLE	-LAPS	PATENT LAPSED	
PL1523882 T3	20090831	LSGT	+	granted / extensions (spc, cpc, pte)	

US2005076840 AA	20050414	LSPB	+	published / reissued	
US2005076840 AA	20070829	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2008017119 AA	20080124	LSPB	+	published / reissued	
US2008017119 AA	20090114	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7270078 BB	20070918	LSGT	+	granted / extensions (spc, cpc, pte)	
US7270078 BB	20050127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LELY ENTERPRISES AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VAN DEN BERG, KAREL; BOS, GREGORIUS RUDOLPHIUS; REEL/FRAME:016207/0156 EFFECTIVE DATE : 20040730
US7270078 BB	20070829	LSGT	PAT1	Patented Case	
US7270078 BB	20110318	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7270078 BB	20150318	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7270078 BB	20190506	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7270078 BB	20191021	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7270078 BB	20191021	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7270078 BB	20191021	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7270078 BB	20191112	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190918
US7270078 BB	20250330	PEXP		Calculated Patent Term Expiry (PTA 168 days)	
US7484474 BB	20090203	LSGT	+	granted / extensions (spc, cpc, pte)	
US7484474 BB	20070814	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LELY ENTERPRISES AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VAN DEN, BERG, KAREL; BOS, GREGORIUS RUDOLPHIUS; REEL/FRAME:019768/0897 EFFECTIVE DATE : 20040730
US7484474 BB	20090114	LSGT	PAT1	Patented Case	
US7484474 BB	20120803	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7484474 BB	20160803	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7484474 BB	20270814	PEXP		Calculated Patent Term Expiry	

Title: **ELECTRIC FENCE** WITH IMPROVED CONDUCTOR NETWORK

Abstract: The **electric fence** is comprised of a flexible support (1, 2) made of a non electroconducting material, integrating an electroconductor network (3, 4). The network (3, 4) is comprised of a plurality of **assemblies** of conductor wires, at least two, each **assembly** extending periodically slant from a side edge (5) to the other edge (6) of said support in an undulated configuration throughout the length thereof, said **assemblies** being offset with respect to each other in the longitudinal direction so as to cross each other regularly at the middle of said support and being evenly distributed on either side of said support.

Classifications:

International (IPC 8-9): A01K3/00 D04B21/16 H01B5/00

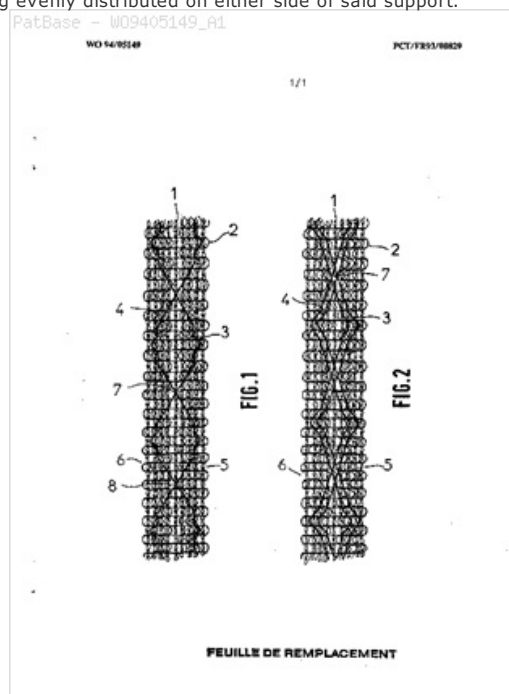
H01B5/12 (Advanced/Invention);

A01K3/00 D04B21/14 H01B5/00 (Core/Invention)

International (IPC 1-7): A01K3/00 H01B5/00 H01B5/12

CPC: D04B21/14 D10B2403/0243 H01B5/12 A01K3/005 D10B2401/16 H01B5/008

European: A01K3/00C D04B21/16 H01B5/00D H01B5/12 N10B401/16



Family:

Publication number	Publication date	Application number	Application date
DE69314156 D1	19971030	DE19936014156	19930826
EP0610490 A1	19940817	EP19930919402	19930826
EP0610490 B1	19970924	EP19930919402	19930826
FR2695003 A1	19940304	FR19920010543	19920831
FR2695003 B1	19941028	FR19920010543	19920831
NZ255445 A	19961028	NZ19930255445	19930826
WO9405149 A1	19940317	WO1993FR00829	19930826

Priority:

FR19920010543 19920831 WO1993FR00829 19930826

Probable Assignee: BELLON CATHERINE

Assignee(s): (std): BELLON CATHERINE ; BELLON JEAN MICHEL

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Inventor(s): (std): CATHERINE BELLON ; MICHEL BELLON JEAN ; BELLON CATHERINE ; BELLON JEAN MICHEL

Inventor(s): BELLON CATHERINE SAVIGNEUX FR ; BELLON JEAN MICHEL ARS SUR FORMANS FR

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL NZ PT SE US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE69314156 D1	19980402	LSWD	-8332	NO LEGAL EFFECT FOR DE	
EP0610490 A1	19940817	LSPB	+	published / reissued	
EP0610490 A1	19940817	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19940520
EP0610490 A1	19960410	LSLI	111L	LICENCE RECORDED	TEXT : 960202 0100 SOCIETE AUVERGNE RHONE-ALPES - ARA
EP0610490 A1	19970115	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19961129

EP0610490 A1	19970930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP0610490 A1	19971224	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19971224
EP0610490 A1	19971225	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 19971225
EP0610490 A1	19980831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19980831
EP0610490 A1	19980831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19980831
EP0610490 A1	19980916	LSGT	+26N	NO OPPOSITION FILED	
EP0610490 A1	19990415	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0610490 A1	20080102	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20070810 YEAR OF FEE PAYMENT : 15
EP0610490 A1	20090429	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20080826
EP0610490 A1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20080826
EP0610490 B1	19970924	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0610490 B1	20130826	PEXP		Calculated Patent Term Expiry	
FR2695003 A1	19940304	LSPB	+	published / reissued	
FR2695003 B1	19941028	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2695003 B1	19960510	LSLI	CL	CONCESSION TO GRANT LICENCES	
FR2695003 B1	20000811	LSAS	TP	TRANSMISSION OF PROPERTY	
FR2695003 B1	20050422	LSAS	TP	TRANSMISSION OF PROPERTY	
FR2695003 B1	20090605	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20090430
FR2695003 B1	20120831	PEXP		Calculated Patent Term Expiry	
NZ255445 A	19961028	LSPB	+	published / reissued	
NZ255445 A	20030829	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ255445 A	20060831	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ255445 A	20130830	LSLE	-EXPY	PATENT EXPIRED	
WO9405149 A1	19940317	LSPB	+	published / reissued	
WO9405149 A1	19940325	LSNP	+WWE	WIPO INFORMATION:	REF DOCUMENT NUMBER :

				ENTRY INTO NATIONAL PHASE	1993919402 COUNTRY OF REF DOCUMENT : EP
WO9405149 A1	19940408	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 255445 COUNTRY OF REF DOCUMENT : NZ
WO9405149 A1	19940817	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993919402 COUNTRY OF REF DOCUMENT : EP
WO9405149 A1	19970924	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993919402 COUNTRY OF REF DOCUMENT : EP

Title: **ASSEMBLY** FOR AND A METHOD OF FEEDING AND MILKING ANIMALS, AND A FEED PLATFORM SUITABLE FOR USE IN SUCH AN **ASSEMBLY**

Abstract: An **assembly** for feeding and milking animals. The **assembly** is provided with a feeding system comprising a movable feed platform and a drive unit for driving the feed platform, a number of feeding places being provided on the feed platform. The **assembly** is further provided with a milking system for, in particular automatically, milking animals on the feed platform, which milking system comprises a number of sets of teat cups. The feed platform is at least for the greater part free from separating elements between the feeding places, i.e. the feed platform is at least for the greater part free from separating elements for confining animals.

Classifications:

International (IPC 8-9): A01J5/00 A01J5/003 A01J5/017 A01K1/12 A01K5/00 (Advanced/Invention);

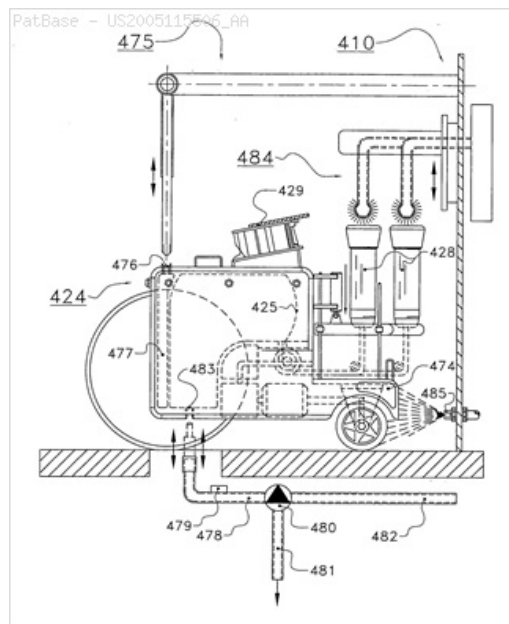
A01J5/00 A01J5/003 A01K1/00 (Core/Invention)

International (IPC 1-7): A01J3/00 A01J5/00 A01J5/017 A01K1/12 A01K5/00

CPC: A01J5/017 A01J5/0175 A01K1/12 A01K1/126

European: A01J5/017 A01J5/017A A01K1/12 A01K1/12B

US: 119/14.03 119/14.04



Family:

Publication number	Publication date	Application number	Application date
AT428297 E	20090515	AT20040077696T	20040930
CA2484370 AA	20050413	CA20042484370	20041012
CA2484370 C	20110705	CA20042484370	20041012
DE602004020564 D1	20090528	DE200460020564T	20040930
DK1523879 T3	20090720	DK20040077696T	20040930
EP1523879 A2	20050420	EP20040077696	20040930
EP1523879 A3	20060201	EP20040077696	20040930
EP1523879 B1	20090415	EP20040077696	20040930
NL1024520 C2	20050414	NL20031024520	20031013
NZ535847 A	20060728	NZ20040535847	20041008
US2005115506 AA	20050602	US20040962602	20041013
US7255063 BB	20070814	US20040962602	20041013

Priority:

NL20031024520 20031013 CA20042484370 20041012

Probable Assignee: LELY ENTERPRISES AG

Assignee(s): (std): LELY ENTPR AG ; VAN DEN BERG KAREL ; BOS GREORGIUS R ; BOS GREORGIUS RUDOLPHIUS

Assignee(s): LELY ENTERPRISES AG

Inventor(s): (std): BERG KAREL VAN DEN ; BOS GREORGIUS R ; BOS GREORGIUS RUDOLPHIUS ; VAN DEN BERG KAREL ; KAREL VAN DEN BERG ; GREORGIUS RUDOLPHIUS BOS

Inventor(s): BOS GREORGIUS

Agent(s): FETHERSTONHAUGH AND CO; CORTEN MAURICE JEAN FM ET AL; HOWREY SIMON ARNOLD AND WHITE LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT428297 E	20090515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT428297 E	20091015	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AT428297 E	20240930	PEXP		Calculated Patent Term Expiry	
CA2484370 AA	20050413	LSPB	+	published / reissued	
CA2484370 AA	20090707	LSSES	+EEER	EXAMINATION REQUEST	
CA2484370 AA	20161123	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20161012
CA2484370 C	20110705	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2484370 C	20241012	PEXP		Calculated Patent Term Expiry	
DE602004020564 D1	20100111	LSOP	R026	OPPOSITION FILED AGAINST PATENT	
DE602004020564 D1	20100401	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DK1523879 T3	20090720	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1523879 T3	20240930	PEXP		Calculated Patent Term Expiry	
EP1523879 A2	20050420	LSPB	+	published / reissued	
EP1523879 A2	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 12
EP1523879 A2	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 13
EP1523879 A3	20060517	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060322
EP1523879 A3	20060927	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20060828
EP1523879 A3	20061004	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI

					COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP1523879 A3	20080924	LSRE	RTI1	TITLE (CORRECTION)	TEXT : METHOD OF MILKING ANIMALS
EP1523879 B1	20090415	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1523879 B1	20090415	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1523879 B1	20090415	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1523879 B1	20090513	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1523879 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090726
EP1523879 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090915
EP1523879 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415

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EP1523879 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20100217	LSOP	-26	OPPOSITION FILED	PARTYTYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L EFFECTIVE DATE : 20100111
EP1523879 B1	20100226	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20100226	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
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EP1523879 B1	20100401	LSOP	-NLR1	NL: OPPOSITION HAS BEEN FILED WITH THE EPO	PARTYTYPE : OPPONENT REF COUNTRY CODE : EP OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L
EP1523879 B1	20100430	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523879 B1	20100430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1523879 B1	20100623	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1523879 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523879 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930

EP1523879 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090716
EP1523879 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523879 B1	20101124	LSOP	-R26	OPPOSITION FILED (CORRECTED)	PARTYTYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L EFFECTIVE DATE : 20100111
EP1523879 B1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20110429	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 : 20090930
EP1523879 B1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20091016
EP1523879 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090415
EP1523879 B1	20111109	LSOP	-R26	OPPOSITION FILED (CORRECTED)	PARTYTYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L EFFECTIVE DATE : 20100111
EP1523879 B1	20130123	LSOP	-R26	OPPOSITION FILED (CORRECTED)	PARTYTYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L EFFECTIVE DATE : 20100111
EP1523879 B1	20131031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20130925 YEAR OF FEE PAYMENT : 10
EP1523879 B1	20140702	LSOP	-R26	OPPOSITION FILED (CORRECTED)	PARTYTYPE : OPPONENT OPPONENT : DELAVAL INTERNATIONAL AB INTELLECTUAL PROPERTY & L

EFFECTIVE DATE : 20100111					
EP1523879 B1	20141128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20140917 YEAR OF FEE PAYMENT : 11
EP1523879 B1	20141128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20140929 YEAR OF FEE PAYMENT : 11
EP1523879 B1	20150227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20140926 YEAR OF FEE PAYMENT : 11
EP1523879 B1	20150420	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20140930
EP1523879 B1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1523879 B1	20160525	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20150930
EP1523879 B1	20160701	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160531
EP1523879 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523879 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523879 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151001
EP1523879 B1	20161114	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R100 REF DOCUMENT NUMBER : 602004020564 COUNTRY OF REF DOCUMENT : DE
EP1523879 B1	20170125	LSRE	+270	OPPOSITION REJECTED	EFFECTIVE DATE : 20161114
EP1523879 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 13
EP1523879 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
EP1523879 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
EP1523879 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20180927 YEAR OF FEE PAYMENT : 15

EP1523879 B1	20181130	LSFE	+PGFP	EPO] ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20180927 YEAR OF FEE PAYMENT : 15
EP1523879 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20190927 YEAR OF FEE PAYMENT : 16
EP1523879 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190927 YEAR OF FEE PAYMENT : 16
EP1523879 B1	20240930	PEXP		Calculated Patent Term Expiry	
NL1024520 C2	20050414	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1024520 C2	20050601	LSES	+PD2B	A SEARCH REPORT HAS BEEN DRAWN UP	
NL1024520 C2	20120516	LSLE	-V1	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20120501
NL1024520 C2	20231013	PEXP		Calculated Patent Term Expiry	
NZ535847 A	20060728	LSPB	+	published / reissued	
NZ535847 A	20061130	LSGT	+PSEA	PATENT SEALED	
NZ535847 A	20081031	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535847 A	20111125	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535847 A	20140926	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 08 OCT 2015 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20140918
NZ535847 A	20160429	LSLE	-LAPS	PATENT LAPSED	
US2005115506 AA	20050602	LSPB	+	published / reissued	
US2005115506 AA	20070725	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7255063 BB	20070814	LSGT	+	granted / extensions (spc, cpc, pte)	
US7255063 BB	20050308	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LELY ENTERPRISES AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BERG, KAREL VAN DEN; BOS, GREORGIUS RUDOLPHIUS; REEL/FRAME:016342/0044 EFFECTIVE DATE : 20040730
US7255063 BB	20070725	LSGT	PAT1	Patented Case	
US7255063 BB	20110214	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7255063 BB	20150216	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7255063 BB	20190401	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7255063 BB	20190916	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7255063 BB	20190916	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

US7255063 BB	20190916	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7255063 BB	20191008	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190814
US7255063 BB	20250313	PEXP		Calculated Patent Term Expiry (PTA 151 days)	

Title: **ASSEMBLY** FOR AND A METHOD OF FEEDING AND MILKING ANIMALS

Abstract: An **assembly** for feeding and milking animals. The **assembly** is provided with a feeding system comprising a movable feed platform and a drive unit for driving the feed platform, a number of feeding places being provided on the feed platform. The **assembly** also includes a milking system for, in particular automatically, milking animals on the feed platform, which milking system comprises a number of sets of teat cups. An area where the animals are allowed to move freely communicates via an entrance with the feed platform, the width of the entrance being sufficiently large to enable simultaneous access of several animals to the feed platform. The entrance is free from a closing device.

Classifications:

International (IPC 8-9): A01J5/00 A01J5/003 A01J5/017 A01J7/04

A01K1/12 A01K5/00 A01K5/02 (Advanced/Invention);

A01J5/00 A01J5/003 A01J7/00 A01K1/00 A01K5/00 (Core/Invention)

International (IPC 1-7): A01J5/00 A01J5/017 A01J5/17 A01J7/04 A01J7/4

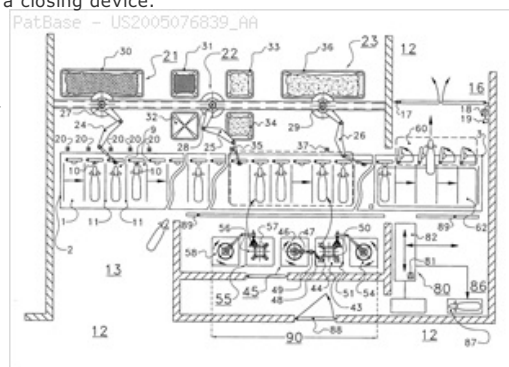
A01K1/12 A01K5/00 A01K5/02 A01K5/2

CPC: A01J5/017 A01J5/0175 A01J7/04 A01K1/12 A01K1/126 A01K5/02

European: A01J5/017 A01J5/017A A01J7/04 A01K1/12 A01K1/12B

A01K5/02

US: 119/14.03 119/14.04



Family:

Publication number	Publication date	Application number	Application date
AT423459 E	20090315	AT20040077698T	20040930
CA2484478 AA	20050413	CA20042484478	20041012
CA2484478 C	20111206	CA20042484478	20041012
DE602004019612 D1	20090409	DE200460019612T	20040930
DK1523880 T3	20090622	DK20040077698T	20040930
EP1523880 A2	20050420	EP20040077698	20040930
EP1523880 A3	20060201	EP20040077698	20040930
EP1523880 B1	20090225	EP20040077698	20040930
ES2323061 T3	20090706	ES20040077698T	20040930
NL1024521 C2	20050414	NL20031024521	20031013
NZ535849 A	20060728	NZ20040535849	20041008
PL1523880 T3	20090831	PL20040077698T	20040930
US2005076839 AA	20050414	US20040962476	20041013
US7261054 BB	20070828	US20040962476	20041013

Priority:

NL20031024521 20031013 EP20040077698 20040930 CA20042484478 20041012

Probable Assignee: LELY ENTERPRISES AG

Assignee(s): (std): BOS GREORGIUS RUDOLPHIUS ; LELY ENTPR AG ; VAN DEN BERG KAREL ; LELY ENTERPRISES AG

Inventor(s): (std): BERG KAREL VAN DEN ; BOS GREORGIUS RUDOLPHIUS ; VAN DEN BERG KAREL ; KAREL VAN DEN BERG ; GREORGIUS RUDOLPHIUS BOS ; BOS GREGORIUS RUDOLPHIUS

Inventor(s): BOS GREORGIUS

Agent(s): FETHERSTONHAUGH AND CO; CORTEN MAURICE JEAN FM ET AL; HOWREY SIMON ARNOLD AND WHITE LLP; DAVID P; HOWREY LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AT423459 E	20090315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT423459 E	20090815	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT423459 E	20240930	PEXP		Calculated Patent Term Expiry	
CA2484478 AA	20050413	LSPB	+	published / reissued	
CA2484478 AA	20090707	LSES	+EEER	EXAMINATION REQUEST	
CA2484478 AA	20161123	LSLE	-MKLA	LAPSED	EFFECTIVE DATE : 20161012
CA2484478 C	20111206	LSGT	+	granted / extensions	

(spc, cpc, pte)					
CA2484478 C	20241012	PEXP		Calculated Patent Term Expiry	
DE602004019612 D1	20100325	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DK1523880 T3	20090622	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1523880 T3	20240930	PEXP		Calculated Patent Term Expiry	
EP1523880 A2	20050420	LSPB	+	published / reissued	
EP1523880 A2	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20150929 YEAR OF FEE PAYMENT : 12
EP1523880 A2	20161130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 13
EP1523880 A3	20060517	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060322
EP1523880 A3	20061004	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20060830
EP1523880 A3	20061004	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP1523880 B1	20090225	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1523880 B1	20090225	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1523880 B1	20090227	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP

EP1523880 B1	20090401	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1523880 B1	20090706	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2323061 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1523880 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI 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 : 20090225
EP1523880 B1	20090731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI 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 : 20090225
EP1523880 B1	20090831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT 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 : 20090225
EP1523880 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ 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 : 20090225
EP1523880 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE 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 : 20090225
EP1523880 B1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT 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 : 20090812
EP1523880 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO 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 : 20090225
EP1523880 B1	20091130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

EP1523880 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	LAPSED DATE : 20090225 COUNTRY OF REF DOCUMENT : BG 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 : 20090525
EP1523880 B1	20100203	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20091126
EP1523880 B1	20100430	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523880 B1	20100430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1523880 B1	20100623	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1523880 B1	20100730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523880 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523880 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR 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 : 20090526
EP1523880 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523880 B1	20101130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20100923 YEAR OF FEE PAYMENT : 7
EP1523880 B1	20101231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20100903 YEAR OF FEE PAYMENT : 7
EP1523880 B1	20110429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090930
EP1523880 B1	20110630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU 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 : 20090826
EP1523880 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE	COUNTRY OF REF DOCUMENT : TR

EP1523880 B1	20110930	LSLE	-PG25	[ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO] LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	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 : 20090225 COUNTRY OF REF DOCUMENT : CY 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 : 20090225
EP1523880 B1	20111130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20110926 YEAR OF FEE PAYMENT : 8
EP1523880 B1	20120531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110930
EP1523880 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110930
EP1523880 B1	20121231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PL REF LEGAL EVENT CODE : LAPE
EP1523880 B1	20131021	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20131021
EP1523880 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20121001
EP1523880 B1	20131031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20130925 YEAR OF FEE PAYMENT : 10
EP1523880 B1	20140131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20130927 YEAR OF FEE PAYMENT : 10
EP1523880 B1	20141128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20140917 YEAR OF FEE PAYMENT : 11
EP1523880 B1	20141128	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20140929 YEAR OF FEE PAYMENT : 11
EP1523880 B1	20150227	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20140926 YEAR OF FEE PAYMENT : 11
EP1523880 B1	20150420	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20140930
EP1523880 B1	20150630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930

EP1523880 B1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140930
EP1523880 B1	20160525	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20150930
EP1523880 B1	20160701	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160531
EP1523880 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523880 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150930
EP1523880 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20151001
EP1523880 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160928 YEAR OF FEE PAYMENT : 13
EP1523880 B1	20171130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
EP1523880 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170927 YEAR OF FEE PAYMENT : 14
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EP1523880 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20180927 YEAR OF FEE PAYMENT : 15
EP1523880 B1	20191031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20190927 YEAR OF FEE PAYMENT : 16
EP1523880 B1	20200131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20190927 YEAR OF FEE PAYMENT : 16
EP1523880 B1	20240930	PEXP		Calculated Patent Term Expiry	
ES2323061 T3	20090706	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2323061 T3	20240930	PEXP		Calculated Patent Term Expiry	
NL1024521 C2	20050414	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1024521 C2	20050601	LSSES	+PD2B	A SEARCH REPORT HAS BEEN DRAWN UP	
NL1024521 C2	20120516	LSLE	-V1	LAPSED BECAUSE OF NON-PAYMENT OF THE	EFFECTIVE DATE : 20120501

ANNUAL FEE					
NL1024521 C2	20231013	PEXP		Calculated Patent Term Expiry	
NZ535849 A	20060728	LSPB	+	published / reissued	
NZ535849 A	20061130	LSGT	+PSEA	PATENT SEALED	
NZ535849 A	20081031	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535849 A	20111125	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535849 A	20140926	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 08 OCT 2015 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20140918
NZ535849 A	20160429	LSLE	-LAPS	PATENT LAPSED	
PL1523880 T3	20090831	LSGT	+	granted / extensions (spc, cpc, pte)	
US2005076839 AA	20050414	LSPB	+	published / reissued	
US2005076839 AA	20070808	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7261054 BB	20070828	LSGT	+	granted / extensions (spc, cpc, pte)	
US7261054 BB	20050127	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LELY ENTERPRISES AG, SWITZERLAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VAN DEN BERG, KAREL; BOS, GREOGIUS RUDOLPHIUS; REEL/FRAME:016204/0258 EFFECTIVE DATE : 20040730
US7261054 BB	20070808	LSGT	PAT1	Patented Case	
US7261054 BB	20110228	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7261054 BB	20150302	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7261054 BB	20190415	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7261054 BB	20190930	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY
US7261054 BB	20190930	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7261054 BB	20190930	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7261054 BB	20191022	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190828
US7261054 BB	20250316	PEXP		Calculated Patent Term Expiry (PTA 154 days)	

Title: APPARATUS FOR SEMEN COLLECTION

Abstract: (Claim 1) 1. An electroejactilation stimulator device comprising a hollow sheath of flexible dielectric material, a plurality of longitudinally placed electrical conductors carried by said sheath, electrical connection means for said conductors, and fluid pressure means for inflating said sheath.

Classifications:

International (IPC 8-9): A61B10/00 A61D19/02 (Advanced/Invention);

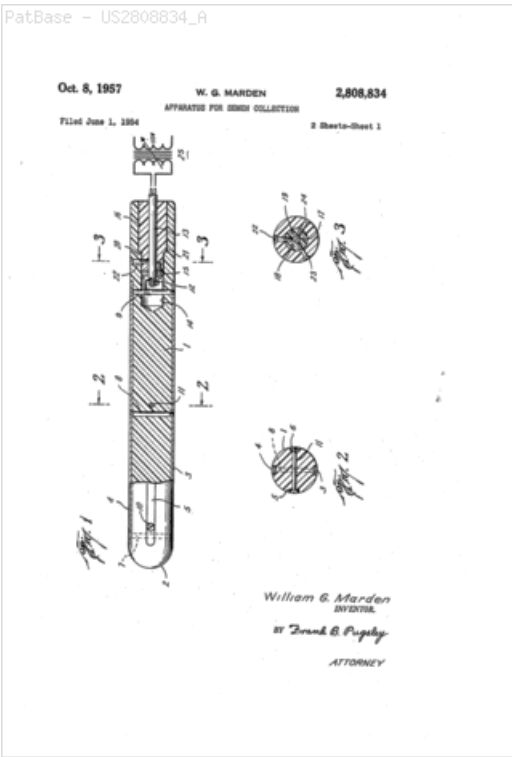
A61B10/00 A61D19/00 (Core/Invention)

International (IPC 1-7): A01K29/00 A61D7/02

CPC: A61B10/0058 A61D19/021

European: A61B10/00L4 A61D19/02B

US: 607/39



Family:

Publication number	Publication date	Application number	Application date
US2808834 A	19571008	US19540433370	19540601

Priority:

US19540433370 19540601

Probable Assignee:

MARDEN WILLIAM G

Assignee(s): (std):

MARDEN WILLIAM G

Inventor(s): (std):

MARDEN WILLIAM G

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2808834 A	19571008	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Mechanical hay distributor

Abstract: A hay distributor is provided that distributes large rectangular hay bales or flakes of hay, operating on a conveyor principle wherein the bales are slowly advanced from the bed of the vehicle to its edge as the vehicle is driven, whereupon by mechanical action the bale is cleaved to flake. A base plate is provided, forming a pivoting point of retrofit attachment of the main frame of the invention to the vehicle bed. The base plate, provides a mounting means for conversion of invention between side or rear-end distribution of hay from the bed of the vehicle. Next, an operating main frame comprises a) rails, having an initial end and a terminal end, along which a hay bale is advanced, and b) incline-adjustable ramps disposed in the path of the rails at their terminal ends, over which the bale advances on its approach to the edge of the bed of the vehicle, which ramps cause natural cleavage of the bale into individual flakes by creating a line of stress. The flakes thus fall off the edge of the vehicle bed, without operator assistance. A skid **assembly** travels on the rails to drive the bales, and, a remotely-operated motor unit drives the skid **assembly**. The motor unit may employ a) a winch mounted to the vehicle bed remote from the operating frame and 2) a cable and pulley **assembly** to transfer drive forces to the skid **assembly**.

Classifications:

International (IPC 8-9): A01D90/10 A01F29/00

A01K5/00 (Advanced/Invention);

A01D90/00 A01K5/00 (Core/Invention)

International (IPC 1-7): A01D90/10 A01F29/00 A01K5/00 B60P1/00

CPC: A01D90/10 A01D90/105 A01K5/00 A01K5/001

European: A01D90/10 A01D90/10B A01K5/00 A01K5/00A

US: 414/25 414/501 414/509 414/515 414/518

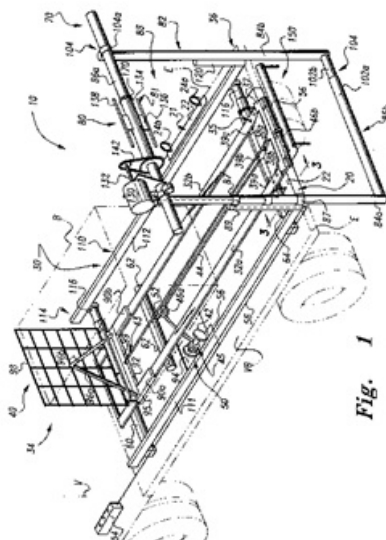
PatBase - US5997233_A

U.S. Patent

Dec. 7, 1999

Sheet 1 of 6

5,997,233



Family:

Publication number	Publication date	Application number	Application date
AU200014783 A1	20000829	AU20000014783	19991115
AU200014783 A5	20000829	AU20000014783	19991115
CA2280390 AA	20000811	CA19992280390	19990813
CA2280390 C	20030114	CA19992280390	19990813
US5997233 A	19991207	US19990247873	19990211
US6116838 A	20000912	US19990434374	19991105
WO0047443 A1	20000817	WO1999US26978	19991115

Priority:

US19990247873 19990211 CA19992280390 19990813 US19990434374 19991105
WO1999US26978 19991115

Probable Assignee: WHATLEY ROBERT T

Assignee(s): (std): JOHN SCOTT SPARKS ; ROBERT T WHATLEY ; SPARKS JOHN SCOTT ; WHATLEY ROBERT T ; WHATLEY ROBERT TODD

Inventor(s): (std): WHATLEY ROBERT TODD ; SPARKS JOHN SCOTT ; WHATLEY ROBERT T

Inventor(s): JOHN SCOTT SPARKS ; ROBERT T WHATLEY

Agent(s): MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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AU200014783 A1	20000829	LSPB	+	published / reissued	
AU200014783 A1	20011206	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	
CA2280390 AA	20000811	LSPB	+	published / reissued	
CA2280390 AA	19990813	LSES	+EEER	EXAMINATION REQUEST	
CA2280390 C	20030114	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2280390 C	20080813	LSLE	-MKLA	LAPSED	
CA2280390 C	20190813	PEXP		Calculated Patent Term Expiry	
US5997233 A	19991207	LSGT	+	granted / extensions (spc, cpc, pte)	
US5997233 A	19991126	LSGT	PAT1	Patented Case	
US5997233 A	19991126	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5997233 A	20030314	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5997233 A	20070223	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5997233 A	20110531	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5997233 A	20190211	PEXP		Calculated Patent Term Expiry	
US6116838 A	20000912	LSGT	+	granted / extensions (spc, cpc, pte)	
US6116838 A	20040202	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6116838 A	20080117	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6116838 A	20120912	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6116838 A	20121008	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6116838 A	20121008	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6116838 A	20121030	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120912
US6116838 A	20191105	PEXP		Calculated Patent Term Expiry	
WO0047443 A1	20000817	LSPB	+	published / reissued	
WO0047443 A1	20000217	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2000 14783 COUNTRY OF REF DOCUMENT : AU KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0047443 A1	20010613	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0047443 A1	20020710	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: QUICK RELEASE LEASH AND QUICK RELEASE COUPLING **ASSEMBLY**

Abstract: A leash **assembly** designed to accomplish a quick release or detachment of an animal from its tethered position and/or a quick re-attachment into a tethered position, the **assembly** including a lead having a release structure which may be axially movable along the length of the lead. A distal end of the release cable is connected to a rotating coupling **assembly** structured to removably connect a collar, harness, or similar attachment **assembly** to the distal end of the lead. An activation **assembly** may be connected adjacent to the proximal end of the lead and which when selectively positioned serves to orient the release structure into a disconnect position relative to the coupling **assembly** such that the components may be easily released. A quick release coupling **assembly**, of the type utilized by the leash **assembly**, is also provided for use in numerous other connection applications.

Classifications:

International (IPC 8-9): A01K27/00 A44B11/25 F16B21/18 F16G11/00 F16G11/10 (Advanced/Invention);

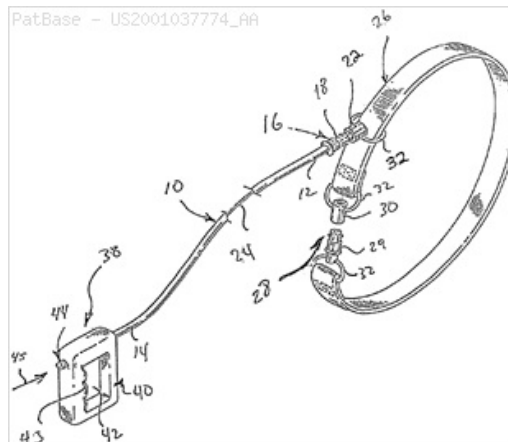
A01K27/00 A44B11/25 F16B21/00 F16G11/00 (Core/Invention)

International (IPC 1-7): A01K1/08 A01K27/00

CPC: Y10S24/47 Y10T24/45466 Y10T24/32 Y10T24/45482 Y10T24/45508 Y10T24/45529 Y10T24/45576 Y10T24/45581 Y10T403/7073 A01K27/005 A01K27/004

European: A01K27/00D

US: 119/718 119/772 119/776 119/859 24/303 24/603 24/606 24/611 24/615 24/624 24/625 24/DIG.47 403/375 403/375P



Family:

Publication number	Publication date	Application number	Application date
AU2001266834 AA	20021209	AU20010266834	20010611
CA2579238 AA	20071126	CA20072579238	20070220
US2001037774 AA	20011108	US20010867338	20010529
US2003145801 AA	20030807	US20030371028	20030220
US2004200435 AA	20041014	US20040787338	20040226
US2006213455 AA	20060928	US20060441680	20060526
US2010111600 AA	20100506	US20100655612	20100104
US6247427 BA	20010619	US19980195965	19981119
US6629511 BB	20031007	US20010867338	20010529
US6955138 BB	20051018	US20030371028	20030220
US7162978 BB	20070116	US20040787338	20040226
US7640639 BB	20100105	US20060441680	20060526
US7954211 BB	20110607	US20100655612	20100104
WO02096193 A1	20021205	WO2001US18764	20010611

Priority:

US19960029573P 19961028	US19970958111 19971027	US19980195965 19981119
US20010867338 20010529	WO2001US18764 20010611	US20030371028 20030220
US20040787338 20040226	US20060441680 20060526	CA20072579238 20070220
US20100655612 20100104		

Probable Assignee: SWIFTIPET INC

Assignee(s): (std): BIEN HUMBERTO D ; DE BIEN HUMBERTO ; DEBIEN HUMERTO ; DEBIEN PRODUCTS INC

Assignee(s): SWIFTIPET INC ; DEBIEN HUMBERTO

Inventor(s): (std): DEBIEN HUMBERTO ; BIEN HUMBERTO D ; DE BIEN HUMBERTO ; DEBIEN HUMERTO

Inventor(s): HUMBERTO DEBIEN ; HUMBERTO DE BIEN ; BIEN HUMBERTO ; DEBIEN HUMBERTO DE

Agent(s): FETHERSTONHAUGH AND CO; MALLOY AND MALLOY PA

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 EE ES FI FR GA GB GD GE GH GM GN 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 PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2001266834 AA	20021209	LSPB	+	published / reissued	
CA2579238 AA	20071126	LSPB	+	published / reissued	
CA2579238 AA	20130417	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20130220

US2001037774 AA	20011108	LSPB	+	published / reissued	
US2001037774 AA	20021223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DEBIEN, HUMBERTO; REEL/FRAME:013599/0703 EFFECTIVE DATE : 20021119
US2003145801 AA	20030807	LSPB	+	published / reissued	
US2003145801 AA	20050602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DEBIEN, HUMBERTO; REEL/FRAME:016090/0320 EFFECTIVE DATE : 20021119
US2004200435 AA	20041014	LSPB	+	published / reissued	
US2004200435 AA	20050602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DEBIEN, HUMBERTO; REEL/FRAME:016090/0320 EFFECTIVE DATE : 20021119
US2006213455 AA	20060928	LSPB	+	published / reissued	
US2006213455 AA	20070205	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DE BIEN, HUMBERTO; REEL/FRAME:018851/0108 EFFECTIVE DATE : 20021119
US2010111600 AA	20100506	LSPB	+	published / reissued	
US2010111600 AA	20110518	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6247427 BA	20010619	LSGT	+	granted / extensions (spc, cpc, pte)	
US6247427 BA	20010531	LSGT	PAT1	Patented Case	
US6247427 BA	20010531	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6247427 BA	20021223	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DEBIEN, HUMBERTO; REEL/FRAME:013599/0703 EFFECTIVE DATE : 20021119
US6247427 BA	20041112	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6247427 BA	20080822	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6247427 BA	20121204	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6247427 BA	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108
US6247427 BA	20181119	PEXP		Calculated Patent Term Expiry	
US6629511 BB	20031007	LSGT	+	granted / extensions (spc, cpc, pte)	
US6629511 BB	20061026	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6629511 BB	20110303	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8

US6629511 BB	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108	
US6629511 BB	20151007	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US6629511 BB	20151102	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US6629511 BB	20151102	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US6629511 BB	20151124	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20151007	
US6629511 BB	20210929	PEXP		Calculated Patent Term Expiry (PTA 123 days and a terminal disclaimer has been filed)		
US6955138 BB	20051018	LSGT	+	granted / extensions (spc, cpc, pte)		
US6955138 BB	20081202	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6955138 BB	20131018	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US6955138 BB	20131118	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US6955138 BB	20131118	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US6955138 BB	20131210	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20131018	
US6955138 BB	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108	
US6955138 BB	20230220	PEXP		Calculated Patent Term Expiry		
US7162978 BB	20070116	LSGT	+	granted / extensions (spc, cpc, pte)		
US7162978 BB	20100621	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US7162978 BB	20150116	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES		
US7162978 BB	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108	
US7162978 BB	20150216	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362		
US7162978 BB	20150216	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362	
US7162978 BB	20150310	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150116	

US7162978 BB	20240226	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US7640639 BB	20100105	LSGT	+	granted / extensions (spc, cpc, pte)	
US7640639 BB	20091216	LSGT	PAT1	Patented Case	
US7640639 BB	20130614	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7640639 BB	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108
US7640639 BB	20170818	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.)
US7640639 BB	20180205	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US7640639 BB	20180205	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7640639 BB	20180205	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7640639 BB	20180227	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20180105
US7640639 BB	20271103	PEXP		Calculated Patent Term Expiry (PTA 526 days)	
US7954211 BB	20110607	LSGT	+	granted / extensions (spc, cpc, pte)	
US7954211 BB	20100302	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC.,FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DE BIEN, HUMBERTO; REEL/FRAME:024013/0796 EFFECTIVE DATE : 20021119
US7954211 BB	20100302	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DEBIEN PRODUCTS, INC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DE BIEN, HUMBERTO; REEL/FRAME:024013/0796 EFFECTIVE DATE : 20021119
US7954211 BB	20110518	LSGT	PAT1	Patented Case	
US7954211 BB	20141028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7954211 BB	20150209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SWIFTIPET, INC., FLORIDA OLDPARTY : CHANGE OF NAME; ASSIGNOR:DEBIEN PRODUCTS, INC.; REEL/FRAME:034924/0380 EFFECTIVE DATE : 20150108
US7954211 BB	20190128	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7954211 BB	20190715	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7954211 BB	20190715	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees	

Under 37 CFR 1.362					
US7954211 BB	20190715	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7954211 BB	20190806	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190607
US7954211 BB	20300104	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
WO02096193 A1	20021205	LSPB	+	published / reissued	
WO02096193 A1	20040408	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02096193 A1	20040721	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO02096193 A1	20050405	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : JP

Title: IMPROVEMENTS IN **ELECTRIC FENCING**

Abstract: 1,201,282. **Electric fence** posts. P. ROGERS [trading as A.E.C. **ELECTRIC FENCING**], 13 May, 1969 [28 March, 1968], No. 14888/68. Heading E1B. [Also in Divisions H2 and H3] A power supply unit for an **electric fence** comprises two boxes 5, 6, superimposed one above the other, carried on an upright member 2 which is provided with a plurality of spaced prongs 4 for insertion into the ground, the lower box 5 housing the battery which supplies the pulse generator components housed in the upper box 6. The pulse generator comprises a capacitor C which is charged from a battery by way of a diode rectifier D and an oscillator which include a transformer T1 and a transistor Tr. When the voltage across the capacitor C reaches a predetermined value a gas discharge tube GD breaks down whereupon the capacitor C discharges into an auto-transformer T2 so producing a pulse on a conductor 9 which is fed to the **fence**. The upper box 6 is provided with a switch 12, an indicating lamp 13 and a carrying handle 14.

Classifications:

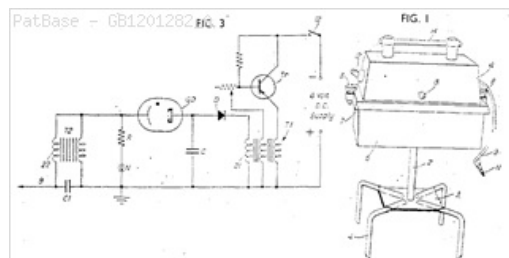
International (IPC 8-9): A01K3/00 H03K3/30 H03K3/37 H05C1/04 (Advanced/Invention);

A01K3/00 H03K3/00 H05C1/00 (Core/Invention)

International (IPC 1-7): A01K3/00 H05C1/00 H05C1/04

CPC: A01K3/005 H03K3/30 H03K3/37 H05C1/04

European: A01K3/00C H03K3/30 H03K3/37 H05C1/04

**Family:**

Publication number	Publication date	Application number	Application date
GB1201282 A	19700805	GB19680014888	19680328
IE32456 B	19730808	IE19680000744	19680624
IE32456 L	19690928	IE19680000744	19680624

Priority:

GB19680014888 19680328

Probable Assignee: PHILIP ROGERS

Assignee(s): (std): A E C ELECTRIC FENCING ; AEC ELECTRIC FENCING LTD ; PHILIP ROGERS

Assignee(s): A E C ELECTRIC FENCING LTD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB1201282 A	19700805	LSGT	+	granted / extensions (spc, cpc, pte)	
GB1201282 A	19701216	LSGT	+PS	PATENT SEALED	
GB1201282 A	19710421	LSRE	429A	APPLICATION MADE FOR AMENDMENT OF SPECIFICATION (SECT. 29/1949)	
GB1201282 A	19710915	LSRE	429D	CASE DECIDED BY THE COMPTROLLER ** SPECIFICATION AMENDED (SECT. 29/1949)	
GB1201282 A	19781213	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	
GB1201282 A	19880328	PEXP		Calculated Patent Term Expiry	
IE32456 B	19730808	LSGT	+	granted / extensions (spc, cpc, pte)	
IE32456 B	19880624	PEXP		Calculated Patent Term Expiry	

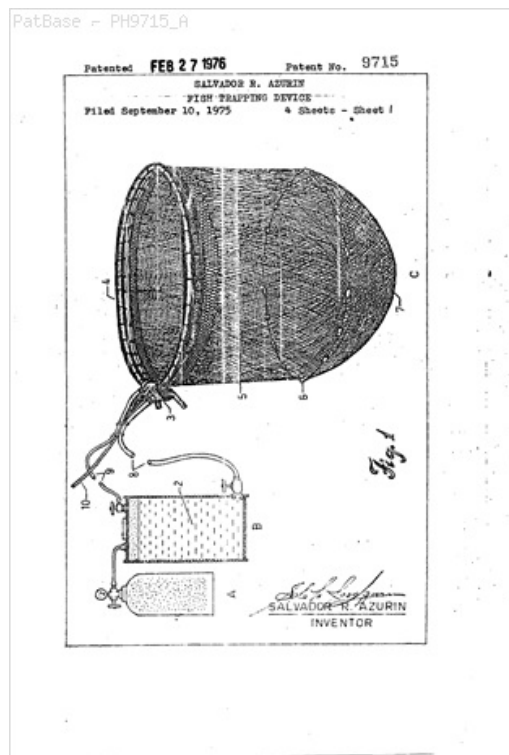
Title: FISH TRAPPING DEVICE

Abstract: I-I-ILLIPPHTES PATeNt [I~, SALVADOR R. AZURIN ~IJ No.: (4~ Patented 9715 FEB (I 7J ~~1~ e, FISH TRAPPING DEVICE SALVADOR'R. AZURIN, Legaspi City, Philippines 9 a citizen of the Philippines (7~ Assignee: None Appl. Sere No.: 17,563 Foreign Application Priori~ Date Uumber(s) None Date(s) N/A 0,ountry (Les): N/A Reference Cited and/or Considered: RP 01. 43-105 Int. Cl. A 01 n 23/28.. :f.i':ield of Search ... Class 43-4.5/105 (Fishing net) September 10, 1975 Filed: S. R. ·AZURIN, Phil. Pat. No. 8494 July 23, 197 1 I- ABSTRACT/CUIII A fishing device having a cup-shaped net or a cylindl rical net with one end totally closed and the opened mouth attached to an inflatable circular tube with hooks and rings whereby a rope can pass through so bhab when said tube is . deflated 'said rope will constrict the mouth of said net when pulled from the surface of the water, said floatable tube further containing exhaust llozzles"wherehy a fluid can discharge in order to cause a propulsive action to tine said tube. 4

Classifications:

International (IPC 8-9): A01K74/00 (Advanced/Invention);
A01K74/00 (Core/Invention)

International (IPC 1-7): A01K74/00



Family:

Publication number	Publication date	Application number	Application date
PH9715 A	19760227	PH19750017563	19750910

Priority:

PH19750017563 19750910

Probable Assignee:

AZURIN S

Assignee(s): (std):

AZURIN S

Inventor(s): (std):

AZURIN S

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
PH9715 A	19760227	LSGT	+	granted / extensions (spc, cpc, pte)	
PH9715 A	19930227	PEXP		Calculated Patent Term Expiry	

Title: **ELECTRIC FENCE** ENERGISER

Abstract: An energiser for an **electric fence**. The energiser includes, at least, one energy storage capacitor (14), a charging circuit (13) to enable the or each storage capacitor (14) to be charged from an energy source (10), semiconductor switching means (16), and control circuit means (15) to facilitate controlled turning -on and -off of the semiconductor switching means (16) to control the duration of the discharge from the energy storage means (14). In one form of the energiser a first semi-conductor switching means is arranged to connect in parallel the energy storage capacitors (14) to be charged and second semi-conductor switching means to connect two or more of the charged energy storage capacitors (14) in series to create an output pulse.

Classifications:

International (IPC 8-9): A01K3/00 G05F1/10 H01L27/06 H02J3/12 H02M3/18 H05C1/04 (Advanced/Invention);

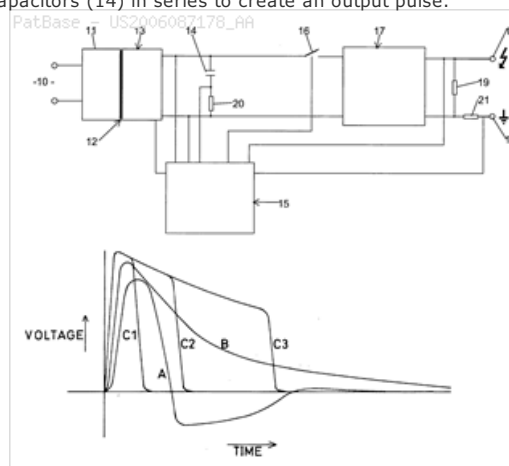
A01K3/00 G05F1/10 H02J3/12 H05C1/00 (Core/Invention)

International (IPC 1-7): H02M9/00 H04B3/54 H05C1/04

CPC: H05C1/04

European: H05C1/04

US: 257/299 257/532 257/577 307/103 307/103S 307/110 307/98 307/98P



Family:

Publication number	Publication date	Application number	Application date
AU2005220162 AA	20060427	AU20050220162	20051004
AU2005220162 BB	20100603	AU20050220162	20051004
EP1667497 A2	20060607	EP20050256200	20051004
EP1667497 A3	20070829	EP20050256200	20051004
NZ535719 A	20070629	NZ20040535719	20041004
US2006087178 AA	20060427	US20050242724	20051003
US7893521 BB	20110222	US20050242724	20051003
ZA200507965 A	20060628	ZA20050007965	20051003

Priority:

NZ20040535719 20041004

Probable Assignee: TRU TEST LTD

Assignee(s): (std): BRYAN WOODHEAD ROBERT C ; LUNENBURG PIETER C ; MURPHY JOHN ; TRU TEST LTD

Assignee(s): TRU TEST LIMITED

Inventor(s): (std): LUNENBURG PIETER C ; BRYAN WOODHEAD ROBERT C ; MURPHY JOHN ; LUNENBURG PIETER CORNELIS ; WOODHEAD ROBERT CHARLES BRYAN ; ROBERT CHARLES BRYAN WOODHEAD ; JOHN MURPHY ; PIETER CORNELIS LUNENBURG

Inventor(s): LUNENBURG PIETER ; BRYAN WOODHEAD ROBERT ; BRYAN WOODHEAD ROBERT CHARLES

Agent(s): ELLIS TERRY ; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN ; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2005220162 AA	20060427	LSPB	+	published / reissued	
AU2005220162 BB	20100603	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2005220162 BB	20100930	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2005220162 BB	20190502	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2005220162 BB	20251004	PEXP		Calculated Patent Term Expiry	

EP1667497 A2	20060607	LSPB	+	published / reissued	
EP1667497 A3	20080409	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20080227
EP1667497 A3	20080507	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20080404
EP1667497 A3	20080507	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : LV COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP1667497 A3	20090408	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20081015
NZ535719 A	20070629	LSPB	+	published / reissued	
NZ535719 A	20071026	LSGT	+PSEA	PATENT SEALED	
NZ535719 A	20090828	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535719 A	20121026	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ535719 A	20140926	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 05 OCT 2018 BY PATENT + TRADE MARK RENEWAL SERVICES LTD EFFECTIVE DATE : 20140902
NZ535719 A	20140926	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 7 YEARS UNTIL 05 OCT 2025 BY PATENT + TRADE MARK RENEWAL SERVICES LTD EFFECTIVE DATE : 20140902
NZ535719 A	20190329	LSAS	ASS	CHANGE OF OWNERSHIP	PARTYTYPE : OWNER OWNER : DATAMARS SA, CH EFFECTIVE DATE : 20190313
US2006087178 AA	20060427	LSPB	+	published / reissued	
US2006087178 AA	20110202	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7893521 BB	20110222	LSGT	+	granted / extensions (spc, cpc, pte)	
US7893521 BB	20051003	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRU-TEST LIMITED, NEW ZEALAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LUNENBURG, PIETER CORNELIS; WOODHEAD, ROBERT CHARLES BRYAN; MURPHY, JOHN; REEL/FRAME:017070/0375; SIGNING

US7893521 BB	20110202	LSGT	PAT1	Patented Case	
US7893521 BB	20140821	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7893521 BB	20190401	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US7893521 BB	20190401	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7893521 BB	20190401	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7893521 BB	20190423	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20190222
US7893521 BB	20290812	PEXP		Calculated Patent Term Expiry (PTA 1409 days)	
ZA200507965 A	20060628	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200507965 A	20251002	PEXP		Calculated Patent Term Expiry	

Title: Poultry loading device

Abstract: (Claim 1) 1. A poultry loading device having, in combination, a It will be seen that the sleeve firmly supports the scraper 60 frame a generally smooth endless conveyor belt supfor back and forth movement in a plane centered on the ported on said frame and having an inclined upper run roller during cleaning, and éliminaetes the danger of loss for carrying poultry, a generally smooth endless holdof control of the scraper which would do extensive damage down belt disposed above said conveyor belt and having if drawn under the roller and into the belt. an inclined lower run spaced above and generally parallel Preparatory to beginning a loading opération, a system Co to said upper run, sidewalls extending along opposite sides of **fences** and pens (not shown) is arranged around the of the space between said belts and cooperating with the panel 144 to facilitate the crowding of turkeys into the latter to define a delivery passage having an open lower two separated passages. The loader 10 is positioned ai the end for receiving poultry and an open upper end for disproper level for entry of turkeys into the chute, and the charging the poultry to a receptacle to be loaded, means truck to be loaded is parked in front of the loader with 70 for supporting each end of said hold-down belt for bodily the divider plate 67 generally alined with the common adjustment to a plurality of différent preselected and fixed wall between two vertical rows of cages 12. Thus, the two heights above said conveyor belt wiith each such end bepassages of the chute can be alined with the doors of two ing spaced approximaiei the same distance from said condifferent cages in each lier for simultaneous loading of veyor belt in all adjusted positions of said hold-down belt the two cages. 75 whereby the height of the enclosed passage may 'be adjusted according to the height of poultry to be loaded while maintaining the two belts generally parallel to one another, said plurality of passage heights permitting the adjustment of said hold-down belt to a height less than the standing height of the poultry to be loaded and greater than the sitting height, and means for driving said belts in directions to advance both of said runs upwardly along said passage toward said discharge end, said means driving said hold-down belt at a rate faster than said conveyor belt whereby poultry attempting to stand in said passage are urged forwardly to settle into sitting positions in mov-ing through the passage.

Classifications:

International (IPC 8-9): A01K45/00 (Advanced/Invention);

A01K45/00 (Core/Invention)

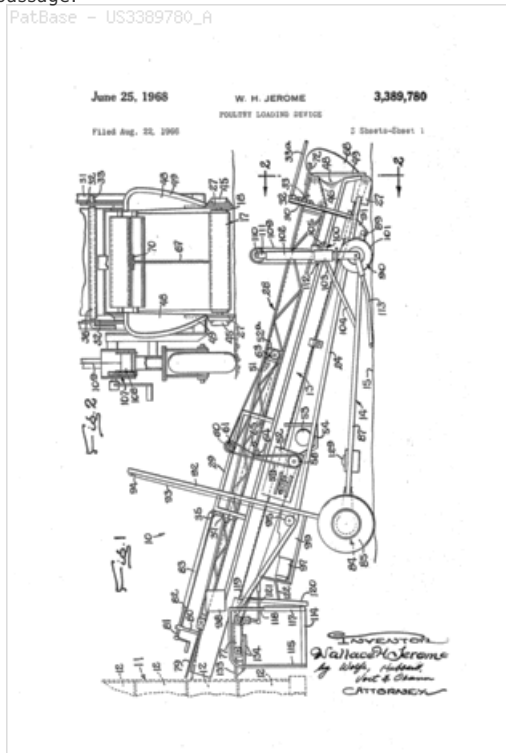
International (IPC 1-7): B65G41/00 B65G45/00

CPC: A01K45/005

European: A01K45/00B

US: 119/846 198/165 198/312 198/623

PatBase - US3389780_A



Family:

Publication number	Publication date	Application number	Application date
US3389780 A	19680625	US19660574078	19660822

Priority:

US19660574078 19660822

Probable Assignee:

JEROME FOODS

Assignee(s): (std):

JEROME FOODS ; WALLACE H JEROME

Inventor(s): (std):

JEROME WALLACE H

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3389780 A	19680625	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ANIMAL OPERATION AND REWARD DEMONSTRATION APPARATUS

Abstract: (Claim 1) 1. In a device of the class described, the combination comprising, an elevated stationary platform, a relatively lower, movable platform, actuatable by an animal jumping from said elevated platform to said lower movable platform, a striker element operably connected to said latter platform, actuated by motion of said movable platform.

Classifications:

International (IPC 8-9): A01K15/00 A01K15/02 (Advanced/Invention);

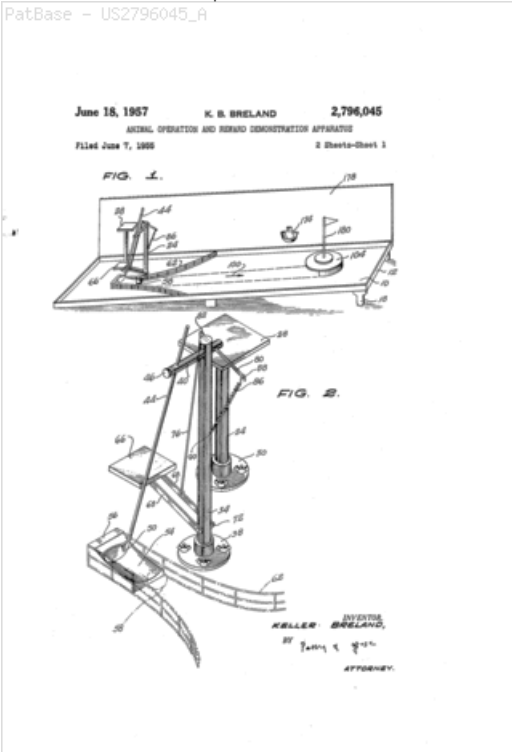
A01K15/00 (Core/Invention)

International (IPC 1-7): A63F7/10

CPC: A01K15/00 A01K15/02

European: A01K15/00 A01K15/02

US: 119/56.1 119/712 119/713



Family:

Publication number	Publication date	Application number	Application date
US2796045 A	19570618	US19550513786	19550607

Priority:

US19550513786 19550607

Probable Assignee:

BRELAND KELLER B

Assignee(s): (std):

BRELAND KELLER B

Inventor(s): (std):

BRELAND KELLER B

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2796045 A	19570618	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FIXING ELEMENT FOR **ELECTRIC FENCES** ETC.. - HAS POST WITH HORIZONTAL NOTCH FOR RECEIVING WIRE AND SLIDABLY MOUNTED COVER WITH SIMILAR, BUT VERTICAL, NOTCH FOR LOCKING WIRE

Abstract: The post (1) has a rectangular or square hollow section and is made from a synthetic plastic such as PVC, and is provided with a horizontal notch (2). The wire, bar or cable etc. is placed into the notch and secured by a fixing ring (4) which slides over the post and is also made from synthetic material and has notches (5) formed in the two appropriate sides. The ring and post are weather resistant and can be recovered and reused. In particular, the use of the post and ring in **electric fences** would remove the need to provide insulators.

Classifications:

International (IPC 8-9): A01K3/00 E04H17/12 F16B7/04

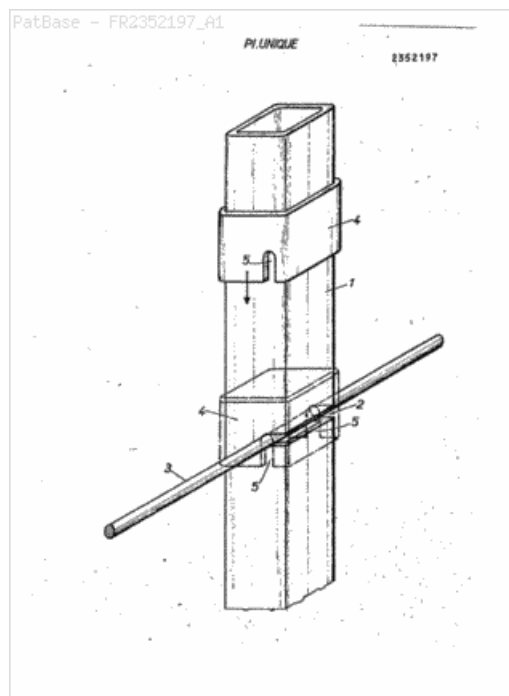
F16G11/00 (Advanced/Invention);

A01K3/00 E04H17/02 F16B7/04 F16G11/00 (Core/Invention)

International (IPC 1-7): A01K3/00 E04H17/12 F16B7/00 H05C1/00

CPC: A01K3/005 E04H17/12 F16B7/044 F16G11/00

European: A01K3/00C E04H17/12 F16B7/04D F16G11/00



Family:

Publication number	Publication date	Application number	Application date
FR2352197 A1	19771216	FR19760014953	19760518

Priority:

FR19760014953 19760518

Probable Assignee:

PLASTIVAL

Assignee(s): (std):

PLASTIVAL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR2352197 A1	19771216	LSPB	+	published / reissued	
FR2352197 A1	19780713	LSLE	-ST	NOTIFICATION OF LAPSE	

Title: Bolus with animal ID and temperature transponder

Abstract: A method and apparatus for remotely reading programmed and programmable memories implanted in livestock and particularly, ruminants, for maintaining animal identification, temperature, medical history, etc. A bolus is commonly implanted in the rumen or first stomach of such an animal to prevent "Tarmumatic Reticuloperitonitis" commonly known as hardware disease in cattle. This disclosure is directed to utilizing a bolus formed from a rectilinear ferrite block magnet of sufficient dimensions and weight for its purpose and attaching a transponder chip to the outer surface of the bolus and including on that chip a plurality of memories capable of having the animal identification on one memory, a temperature sensing device, a programmable memory for programming medical information during the life of the animal and additional memories or specific sensing device which can be read or programmed external of the animal by means of a reader/programmer which can activate and power the transponder chip to make selected memory readings or programming. An antenna for the transponder operation is wrapped around the bolus magnet and attached thereto. A protective sleeve may be utilized to ease implant of the device.

Classifications:

International (IPC 8-9): A01K11/00 A01K13/00 A01K29/00 A61B5/00 A61B5/01 A61B5/07 (Advanced/Invention);

A61B5/01 (Advanced/Non-invention);

A01K11/00 A01K13/00 A01K29/00 A61B5/00 A61B5/01

A61B5/07 (Core/Invention)

International (IPC 1-7): A01K11/00 A01K13/00 A01K29/00 A61B5/00

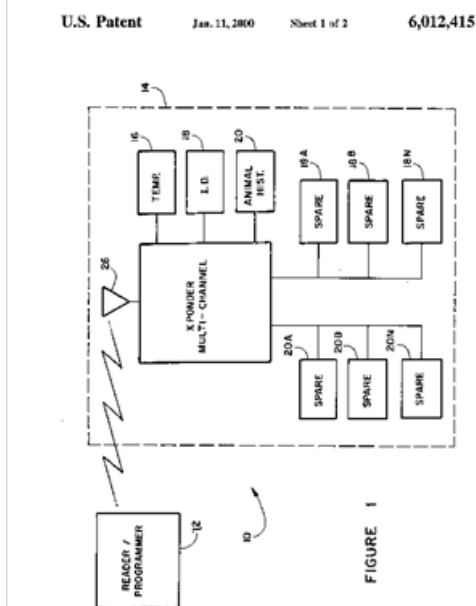
CPC: A01K11/00 A01K11/007 A01K13/003 A01K29/00 A61B5/073

European: A01K11/00 A01K11/00C1 A01K13/00D A01K29/00

A61B5/07B

US: 119/174 128/899

PatBase - US6012415_A



Family:

Publication number	Publication date	Application number	Application date
AT234000 E	20030315	AT19980911939T	19980324
AU199865779 A1	19981113	AU19980065779	19980324
AU199872509 A1	19981113	AU19980072509	19980417
AU733021 B2	20010503	AU19980065779	19980324
CA2286629 AA	19991015	CA19982286629	19980324
CA2286629 C	20060822	CA19982286629	19980324
CA2329906 AA	19991015	CA19982329906	19980417
DE69812115 D1	20030417	DE19986012115T	19980324
DE69812115 D1	20030417	DE19986012115	19980324
DE69812115 T2	20031016	DE19986012115T	19980324
EP0977478 A1	20000209	EP19980919802	19980417
EP0977478 A4	20020130	EP19980919802	19980417
EP1009224 A1	20000621	EP19980911939	19980324
EP1009224 A4	20020130	EP19980911939	19980324
EP1009224 B1	20030312	EP19980911939	19980324
ES2196552 T3	20031216	ES19980911939T	19980324
PT1009224 T	20030731	PT19980911939T	19980324
US6012415 A	20000111	US19970843541	19970418
WO9847350 A1	19981029	WO1998US05645	19980324
WO9847351 A1	19981029	WO1998US07916	19980417

Priority:

US19970843541 19970418
WO1998US07916 19980417

US19970051465P 19970701

WO1998US05645 19980324

Probable Assignee: LINSETH IRENE A

Assignee(s): (std): AVID IDENTIFICATION SYST INC ; AVID IDENTIFICATION SYSTEMS IN ; AVID IDENTIFICATION SYSTEMS INC ; GERRY S LINSETH ; IRENE A LINSETH ; HAYES NORMAN J ; MAGTRONIC ID INC ; LINSETH IRENE ; LINSETH GERRY S ; LINSETH IRENE A ; LINSETH IRENE ANN ; IRENE LINSETH ; TROESCH PETER ; NORMAN J HAYES

Assignee(s): MAGTRONICS ID LLC PO BOX ; LINSETH GERRY S DECEASED ; MAGTRONICS ID LLC ; MAGTRAC BOLUS LLC ; MAGTRONICS ID INC ; MAGTRAC BOLUS LLC PO BOX ; HAYES RODNEY J ; HAYES NORMAN J PO BOX

Inventor(s): (std): LINSETH GERRY S ; TROESCH PETER ; HAYES NORMAN J ; NORMAN J HAYES ; IRENE A LINSETH ; GERRY S LINSETH ; PETER TROESCH ; LINSETH IRENE A ; LINSETH IRENE

Inventor(s): LINSETH GERRY S DECEASED

Agent(s): PATENT ATTORNEY SERVICES; WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; RIDOUT AND MAYBEE LLP; RICHES MCKENZIE AND HERBERT LLP

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT234000 E	20030315	LSGT	+	granted / extensions (spc, cpc, pte)	
AT234000 E	20030915	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT234000 E	20180324	PEXP		Calculated Patent Term Expiry	
AU199865779 A1	19981113	LSPB	+	published / reissued	
AU199872509 A1	19981113	LSPB	+	published / reissued	
AU199872509 A1	20020228	LSLE	-MK1	APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD	
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AU733021 B2	20000113	LSAS	HC1	CHANGE OF APPLICANT'S NAME (SECT. 215), DEATH OF APPLICANT	TEXT : IRENE A. LINSETH
AU733021 B2	20010830	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU733021 B2	20180324	PEXP		Calculated Patent Term Expiry	
CA2286629 AA	19991015	LSPB	+	published / reissued	
CA2286629 AA	20030321	LSES	+EEER	EXAMINATION REQUEST	
CA2286629 C	20060822	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2286629 C	20100324	LSLE	-MKLA	LAPSED	
CA2286629 C	20180324	PEXP		Calculated Patent Term Expiry	
CA2329906 AA	19991015	LSPB	+	published / reissued	
CA2329906 AA	20030506	LSLE	-FZDE	DEAD	
DE69812115 D1	20040408	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
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DE69812115 T2	20031016	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0977478 A1	20000209	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19991118
EP0977478 A1	20000913	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : HAYES, NORMAN J.
EP0977478 A4	20020130	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20011213
EP0977478 A4	20030730	LSRV	-18R	APPLICATION REFUSED	EFFECTIVE DATE : 20030223
EP1009224 A1	20000621	LSPB	+	published / reissued	
EP1009224 A1	20000621	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19991111
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EP1009224 A1	20020529	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20020416
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EP1009224 A1	20030314	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP1009224 A1	20080731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20080325 YEAR OF FEE PAYMENT : 11
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EPO]					
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EP1009224 A1	20091002	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PT REF LEGAL EVENT CODE : MM4A TEXT : LAPSE DUE TO NON-PAYMENT OF FEES EFFECTIVE DATE : 20090924
EP1009224 A1	20091030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090924
EP1009224 A1	20091125	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20090324
EP1009224 A1	20091201	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20091001
EP1009224 A1	20091225	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20091130
EP1009224 A1	20100106	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
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EP1009224 B1	20180324	PEXP		Calculated Patent Term Expiry	
ES2196552 T3	20031216	LSGT	+	granted / extensions (spc, cpc, pte)	
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PT1009224 T	20030731	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1009224 T	20180324	PEXP		Calculated Patent Term Expiry	
US6012415 A	20000111	LSGT	+	granted / extensions (spc, cpc, pte)	
US6012415 A	19970701	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAYES, NORMAN J., WYOMING OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:LINSETH, GERALD S.; REEL/FRAME:008581/0985 EFFECTIVE DATE : 19970424
US6012415 A	19971015	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MAGTRONICS I.D. INC., WYOMING OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAYES, NORMAN J.; REEL/FRAME:008758/0782 EFFECTIVE DATE : 19970609
US6012415 A	19980602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MAGTRONICS ID, L.L.C., WYOMING OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAYES, NORMAN J.; REEL/FRAME:009203/0758 EFFECTIVE DATE : 19980529
US6012415 A	19981201	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MAGTRAC BOLUS, L.L.C., WYOMING OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGTRONICS ID, L.L.C.; REEL/FRAME:009610/0155 EFFECTIVE DATE : 19980721
US6012415 A	20020311	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAYES, RODNEY J., WYOMING OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGTRAC BOLUS LLC.; REEL/FRAME:012729/0897 EFFECTIVE DATE : 20011015
US6012415 A	20020910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HAYES, RODNEY J., WYOMING OLDPARTY : REVOCATION OF ASSIGNMENT; ASSIGNOR:MAGTRAC BOLOS LLC, (WHO'S MANGER IS NORMAN J. HAYES); REEL/FRAME:013269/0480 EFFECTIVE DATE : 20011120
US6012415 A	20030701	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6012415 A	20060428	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LINSETH, IRENE A., NORTH DAKOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAYES, NORMAN J.; REEL/FRAME:017546/0107

US6012415 A	20060428	LSAS	AS	ASSIGNMENT	EFFECTIVE DATE : 20060328 PARTYTYPE : OWNER OWNER : LINSETH, IRENE A., NORTH DAKOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:HAYES, RODNEY J.; REEL/FRAME:017546/0146 EFFECTIVE DATE : 20060412
US6012415 A	20060428	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LINSETH, IRENE A., NORTH DAKOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGTRAC BOLUS, L.L.C.; REEL/FRAME:017546/0153 EFFECTIVE DATE : 20060412
US6012415 A	20060504	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LINSETH, IRENE A., NORTH DAKOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGTRONICS ID, INC.; REEL/FRAME:017575/0036 EFFECTIVE DATE : 20060427
US6012415 A	20060504	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : LINSETH, IRENE A., NORTH DAKOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:MAGTRONICS ID, L.L.C.; REEL/FRAME:017575/0048 EFFECTIVE DATE : 20060427
US6012415 A	20080110	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6012415 A	20120111	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6012415 A	20120206	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6012415 A	20120206	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6012415 A	20120228	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120111
US6012415 A	20170418	PEXP		Calculated Patent Term Expiry	
WO9847350 A1	19981029	LSPB	+	published / reissued	
WO9847350 A1	19991015	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2286629 COUNTRY OF REF DOCUMENT : CA
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WO9847350 A1	20000621	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998911939 COUNTRY OF REF DOCUMENT : EP

WO9847350 A1	20010816	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 65779/98 COUNTRY OF REF DOCUMENT : AU
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WO9847351 A1	19991019	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 500448 COUNTRY OF REF DOCUMENT : NZ
WO9847351 A1	19991118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 72509/98 COUNTRY OF REF DOCUMENT : AU
WO9847351 A1	19991118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1998919802 COUNTRY OF REF DOCUMENT : EP
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WO9847351 A1	20030611	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1998919802 COUNTRY OF REF DOCUMENT : EP
WO9847351 A1	20060725	LSNE	-ENPW	STARTED TO ENTER NATIONAL PHASE AND WAS WITHDRAWN OR FAILED FOR OTHER REASONS	TEXT : PEDIDO RETIRADO EM RELACAO AO BRASIL, POR TER SIDO A FASE NACIONAL INTEMPESTIVA. REF DOCUMENT NUMBER : PI9815485 COUNTRY OF REF DOCUMENT : BR

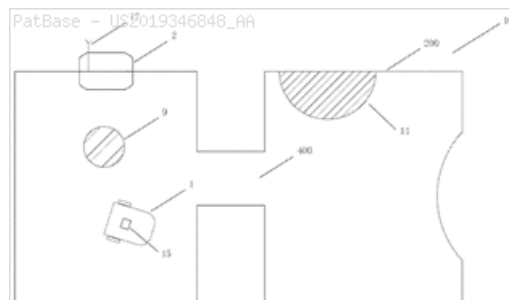
Title: DIVIDING METHOD FOR WORKING REGION OF SELF-MOVING DEVICE, DIVIDING APPARATUS, AND ELECTRONIC DEVICE

Abstract: The present invention relates to a moving method of a self-moving device, including: presetting a preset movement path of a self-moving device; enabling the self-moving device to move along the preset movement path; and checking whether a moving direction of the self-moving device deviates from the preset movement path, and when the moving direction deviates from the preset movement path, calibrating the moving direction of the self-moving device to enable the self-moving device to move along the preset movement path, wherein, the preset movement path including several first path segments, the first path segment being divided into several sub-path segments, and an end point of the sub-path segment being referred to as a node; and the calibrating the moving direction of the self-moving device includes: calibrating the moving direction of the self-moving device by using the node as a target point.

Classifications:

International (IPC 8-9): A01D34/00 A01K27/00 G01C25/00 G01S19/13 G01S19/23 G01S19/41 G01S19/42 G01S19/47 G01S5/02 G05B23/02 G05D1/00 G05D1/02 G06F16/29 G06F17/30 G06N20/00 G06Q10/04 (Advanced/Invention)

CPC: G05D1/0274 G01S5/021 G01S5/0247 G05D1/0212 G05D1/0221 G05D1/0231 G05D1/024 G05D1/0246 G05D1/0255 G05D1/0257 G05D1/027 G05D1/0278 G05D2201/0208 G06F16/29 G06F16/9537 G06Q10/047 G01S19/13 G01S19/23 G01S19/41 G01S19/42 G01S19/47 G01C25/00 G01S5/02 G05B23/02 G06F16/00 G06Q10/04 G05D1/0088 G05B13/0265 G06N20/00 G01S19/071 A01D34/008 A01D2101/00 G05D1/0225 G05D1/0214 A01K27/001 A01K27/009 G05D1/0217 G05D1/02 G01C21/005



Family:

Publication number	Publication date	Application number	Application date
CN108226859 A	20180629	CN201711354214	20171215
CN108226964 A	20180629	CN201711351307	20171215
CN108226965 A	20180629	CN201711351308	20171215
CN108226972 A	20180629	CN201711350543	20171215
CN108227704 A	20180629	CN201711351232	20171215
CN108227705 A	20180629	CN201711354787	20171215
CN108228739 A	20180629	CN201711350541	20171215
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CN108267752 A	20180710	CN201711354782	20171215
CN108308059 A	20180724	CN201710034583	20170118
CN108398944 A	20180814	CN201711354772	20171215
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EP3557359 A1	20191023	EP20170882141	20171215
EP3561627 A1	20191030	EP20170881087	20171215
US2019346848 AA	20191114	US20190438829	20190612
US2019369620 AA	20191205	US20190442428	20190614
US2019369640 AA	20191205	US20190442442	20190614
WO18108178 A1	20180621	WO2017CN116684	20171215
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Priority:

CN201611157425	20161215	CN201710034583	20170118	WO2017CN116684	20171215
WO2017CN116685	20171215	WO2017CN116686	20171215	US20190438829	20190612
US20190442428	20190614	US20190442442	20190614		

Probable Assignee: POSITEC POWER TOOLS SUZHOU CO LTD

Assignee(s): (std): POSITEC POWER TOOLS SUZHOU CO LTD

Assignee(s): POSITEC POWER TOOLS SUZHOU CO

Inventor(s): (std): ZHOU CHANG ; WONG KA TAT KELVIN ; TAN YIYUN ; SHAO YONG ; LIU FANGSHI ; JIAO SHIPING ; HE MINGMING

Agent(s): DENTONS UK AND MIDDLE EAST LLP; SHANGHAI ESSEN PATENT AND TRADEMARK OFFICE

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 JO JP KE KG KH 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

CN108226859 A	20180629	LSPB	+	published / reissued	
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reissued					
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CN207799086 U	20271215	PEXP		Calculated Patent Term Expiry	
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EP3561627 A1	20191030	LSPB	+	published / reissued	
EP3561627 A1	20191030	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20190712
US2019346848 AA	20191114	LSPB	+	published / reissued	
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US2019369620 AA	20191205	LSPB	+	published / reissued	
US2019369620 AA	20200324	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : POSITEC POWER TOOLS (SUZHOU) CO., LTD, CHINA OLDPARTY : ASSIGNMENT OF ASSIGNORS

					INTEREST; ASSIGNORS:ZHOU, CHANG; TAN, YIYUN; SHAO, YONG; AND OTHERS; SIGNING DATES FROM 20190720 TO 20200323; REEL/FRAME:052205/0992
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WO18108178 A1	20180621	LSPB	+	published / reissued	
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WO18108179 A1	20190618	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO18108179 A1	20190719	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2017880706 COUNTRY OF REF DOCUMENT : EP EFFECTIVE DATE : 20190715
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WO18108180 A1	20190719	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2017881087 COUNTRY OF REF DOCUMENT : EP EFFECTIVE DATE : 20190715

Title: ANIMAL SHELTER

Abstract: An animal shelter that provides indoor and outdoor accommodation for an animal that includes an insulated, moisture impervious floor panel with a controllable heat producing element therein. Insulated wall panels are secured to the floor panel and extending upwardly therefrom around the outer periphery thereof. An insulated roof panel is supported by the walls and has an upper flat surface on which the animal can lie outside of the shelter. The roof panel can be tilted upwardly providing access to the interior of the shelter. The front panel can be removed for ventilation. An opening in a side wall panel permits the animal to enter and exit the shelter at will. First and second compartments hold respectively a supply of food and water and each have an open top tray portion, located within the shelter, which is accessible by an animal located in the shelter.

Classifications:

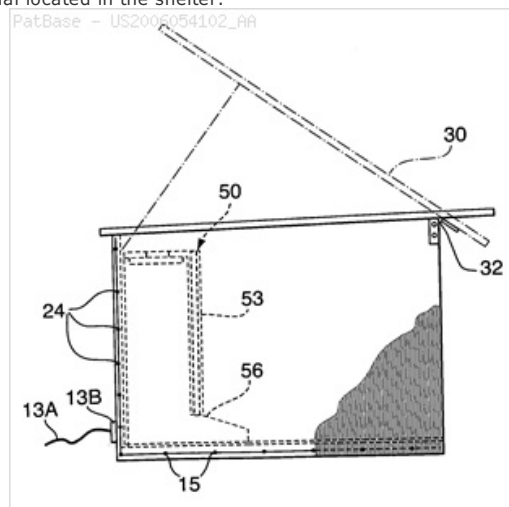
International (IPC 8-9): A01K1/03 (Advanced/Invention);

A01K1/02 (Core/Invention)

CPC: A01K1/033

European: A01K1/03C

US: 119/482



Family:

Publication number	Publication date	Application number	Application date
US2006054102 AA	20060316	US20040941263	20040915

Priority:

US20040941263 20040915

Probable Assignee: HAILEY TRACEY J

Assignee(s): (std): HAILEY TRACEY J

Inventor(s): (std): HAILEY TRACEY J

Inventor(s): HAILEY TRACEY

Agent(s): CARRITHERS LAW OFFICE PLLC, ONE PARAGON CENTRE; CARRITHERS LAW OFFICE PLLC ONE PARAGON CENTRE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
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US2006054102 AA	20071219	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

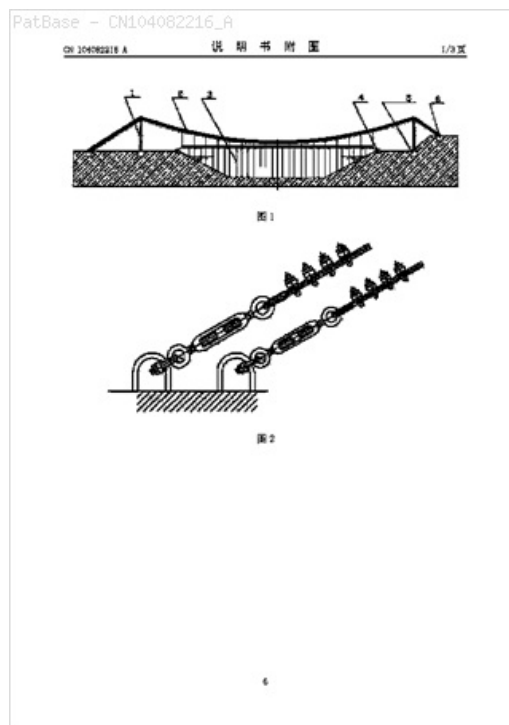
Title: SUSPENSION TYPE SINGLE-ROW FISH BLOCKING **ELECTRIC FENCE**

Abstract: The invention relates to a suspension type single-row fish blocking **electric fence**. At least two main rope towers are vertically arranged in a riverside or a riverway. The main rope towers are fixed to the ground through main rope tower foundations. A main rope is suspended on the main rope towers. The ends of the main rope are fixedly connected with main rope ground anchor foundations on the ground. The portion, between the two main rope towers, of the main rope is tensioned and then bends and droops naturally. The portions of the main rope are connected with a cross beam through suspension ropes. The cross beam is kept horizontal. The cross beam is connected with a plurality of suspension **assemblies**. A steel chain or a steel wire rope is arranged on each suspension **assembly**. An electrode tube is installed on each steel chain or each steel wire rope. The lower end of each suspension **assembly** is connected with a positioning pier at the bottom of a riverbed. The cross beam is fixedly connected with ground anchors with cables through cross beam ropes. The main rope, the suspension ropes, the cross beam and the suspension **assemblies** between the adjacent main rope towers are basically in the same plane. The fish blocking **electric fence** is convenient to adjust, low in construction cost, short in construction period, capable of meeting the requirements for various water depths and irregular terrains, high in bearing capacity and high in water flow impact resistance, ice blockage resistance and shock resistance.

Classifications:

International (IPC 8-9): A01K61/00 (Advanced/Invention)

CPC: Y02A40/81



Family:

Publication number	Publication date	Application number	Application date
CN104082216 A	20141008	CN201410359938	20140725

Priority:

CN201410359938 20140725

Probable Assignee: CN ACAD FISHERY SCIENCES CAFS

Assignee(s): (std): CN ACAD FISHERY SCIENCES CAFS

Assignee(s): FISHERIES RESEARCH INST CHINESE ACADEMY OF FISHERY SCIENCES MECHANICAL EQUIPMENT ; FISHERY MACHINERY AND INSTRUMENT RESEARCH INST CHINESE ACADEMY OF FISHERY SCIENCES

Inventor(s): (std): SHI RUI ; SHENG QINGYUAN ; HU XIN ; CHEN YINJIE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN104082216 A	20141008	LSPB	+	published / reissued	
CN104082216 A	20141008	LSPB	+C06	PUBLICATION	
CN104082216 A	20161207	LSRV	-C12	REJECTION OF A PATENT APPLICATION AFTER ITS PUBLICATION	

Title: **Electric fence** device

Abstract: PCT No. PCT/SE95/01012 Sec. 371 Date Jun. 13, 1997 Sec. 102(e) Date Jun. 13, 1997 PCT Filed Sep. 8, 1995 PCT Pub. No. WO96/08140 PCT Pub. Date Mar. 21, 1996 An **electric fence** has a series of posts connected by an elastically-stretchable, electrically-conductive string to form an enclosure for animals. The string has a unique structure which is comprised of electrically conductive and electrically nonconductive threads intertwined around a rubber core material. The threads are braided in such a way that the string may be substantially stretched without the braided threads severing. The elastically-stretchable construction prevents the string from breaking when moving animals collide with the electrified string.

Classifications:

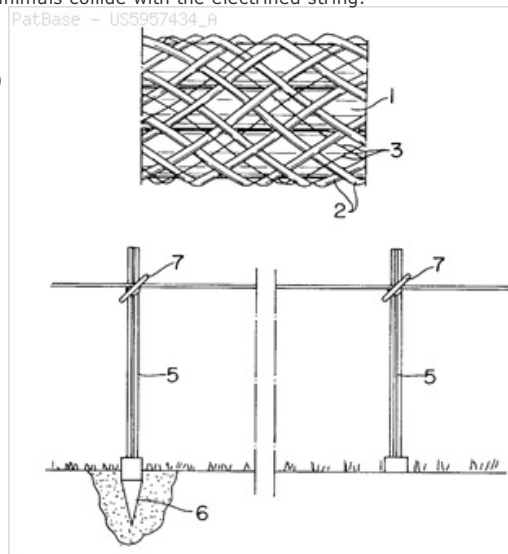
International (IPC 8-9): A01K3/00 H05C1/04 (Advanced/Invention);
A01K3/00 H05C1/00 (Core/Invention)

International (IPC 1-7): A01K A01K3/00 E04H17/04 E04H17/10 H01B5/10 H05C1/04

CPC: H05C1/04 A01K3/005 Y02A40/74

European: A01K3/00C H05C1/04

US: 256/10 256/45



Family:

Publication number	Publication date	Application number	Application date
AT199206 E	20010315	AT19950932272T	19950908
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AU199941132 A1	19990916	AU19990041132	19990726
AU733410 B2	20010510	AU19990041132	19990726
DE0783243 T1	19980129	DE19950932272T	19950908
DE4433496 A1	19960321	DE19944433496	19940920
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EP0783243 A1	19970716	EP19950932272	19950908
EP0783243 B1	20010221	EP19950932272	19950908
ES2156214 T3	20010616	ES19950932272T	19950908
FI107871 B	20011031	FI19970001042	19970312
FI971042 A	19970312	FI19970001042	19970312
FI971042 A0	19970312	FI19970001042	19970312
NZ293022 A	19980626	NZ19950293022	19950908
PT783243 T	20010830	PT19950932272T	19950908
SE505138 C2	19970630	SE19940003088	19940915
SE9403088 A	19960316	SE19940003088D	19940915
SE9403088 A0	19940915	SE19940003088	19940915
SE9403088 L	19960316	SE19940003088	19940915
US5957434 A	19990928	US19970810000	19970613
WO9608140 A1	19960321	WO1995SE01012	19950908

Priority:

SE19940003088 19940915 DE19944433496 19940920 AU19950035364 19950908
WO1995SE01012 19950908 AU19990041132 19990726

Probable Assignee: NORDBERG FRED

Assignee(s): (std): FRED NORDBERG ; KJELL NILSSON ; NILSSON KJELL ; NORDBERG FRED ; THOMA HEINZ

Assignee(s): THOMA HEINZ 79585 STEINEN DE ; NORDBERG FRED VAESTRA FROELUNDA SE ; NORDBERG FRED KOPPARGATAN

Inventor(s): (std): NORDBERG FRED ; NILSSON KJELL ; KJELL NILSSON ; FRED NORDBERG

Inventor(s): NORDBERG FRED VAESTRA FROELUNDA SE

Agent(s): ASPEN PHARMA PTY LTD; SPRUSON AND FERGUSON

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

Patent	Date recorded	Event group	Code	Event	Details
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AU733410 B2	20010510	LSGT	+	granted / extensions (spc, cpc, pte)	
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EP0783243 A1	19970716	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19970324
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US5957434 A	19990928	LSGT	+	granted / extensions (spc, cpc, pte)	
US5957434 A	19970616	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NORDBERG, FRED, SWEDEN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NILSSON, KJELL; REEL/FRAME:008565/0172 EFFECTIVE DATE : 19970324
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WO9608140 A1	19970312	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 293022 COUNTRY OF REF DOCUMENT : NZ
WO9608140 A1	19970324	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1995932272 COUNTRY OF REF DOCUMENT : EP
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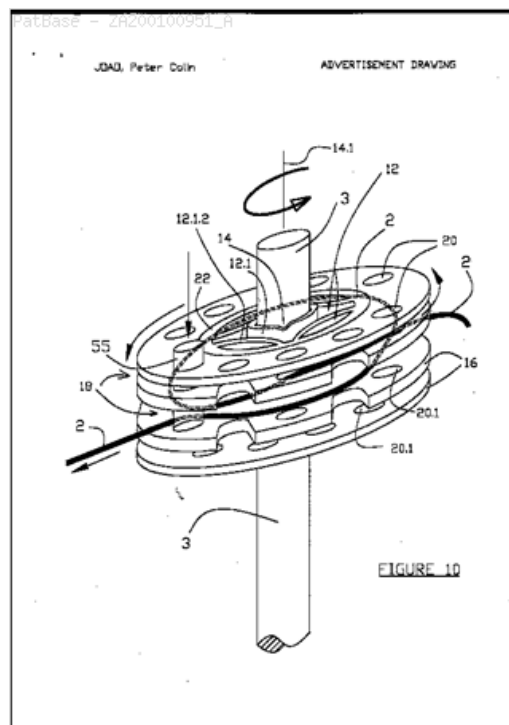
Title: WIRE SUPPORT.

Abstract: ABSTRACT The invention provides a wire holder suitable for holding a wire strand, such as in an **electric fence**. The wire holder comprises a hub formation including a bore extending at least partially therethrough; at least two flanges extending from the hub formation and defining between them a wire-locating zone; and at least one flange aperture extending through a flange suitably dimensioned for permitting protrusion of a wire strand or to accommodate a pin, peg or the like for securing and anchoring the wire strand to the wire holder. The hub formation comprises one or more hub segments which are resiliently displaceable relative to the bore axis so as to define a resiliently expandable bore. The invention includes restraining means for use in association with the wire holder and wire tensioning means; a wire holder **assembly**; and a method of erecting a wire **fence** by use of the wire holder. Advertisement drawing: Figure 10 International Patent Classification: A01K; E04H; H05C; H01B; G08B

Classifications:

International (IPC 8-9): A01K E04H G08B H01B H05C (Subclass/Invention)

International (IPC 1-7): A01K E04H G08B H01B H05C



Family:

Publication number	Publication date	Application number	Application date
ZA200100951 A	20020802	ZA20010000951	20010219

Priority:

ZA19990006927 19991105 ZA20010000951 20010219

Probable Assignee: JOAO PETER COLIN

Assignee(s): (std): JOAO PETER COLIN

Inventor(s): (std): JOAO PETER COLIN ; PETER COLIN JOAO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ZA200100951 A	20020802	LSGT	+	granted / extensions (spc, cpc, pte)	
ZA200100951 A	20210218	PEXP		Calculated Patent Term Expiry	

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AU764571 B2	20030821	AU19990030501	19990409
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EP1033401 A3	20040421	EP20000200610	20000221
EP1068312 A2	20010117	EP19990912007	19990409
EP1252305 A2	20021030	EP20000979889	20001207
EP1357973 A2	20031105	EP20020748339	20020207
EP1357973 B1	20080820	EP20020748339	20020207
EP1379648 A1	20040114	EP20010929922	20010418
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IL158397 A0	20040512	IL20010158397	20010418
JP2001269182 A2	20011002	JP20000118773	20000224
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WO02083898 A1	20021024	WO2001IB00914	20010418
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Priority:

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Assignee(s): GENSET S A ; BOUR BARBARA ; SERONO GENETICS INST ; DUMAS MILNE EDWARDS JEAN BAPTISTE ; GENSET ; MILNE EDWARDS JEAN BAPTISTE DUMAS

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Inventor(s): AYMERIC DUCLERT ; EDWARDS JEAN BAPTISTE DUMAS MILNE ; MILNE EDWARDS JEAN BAPTISTE DUMAS

Agent(s): FB RICE PTY LTD; FB RICE; WRAYS PTY LTD; WRAYS; SIM AND MCBURNEY; BRASNETT ADRIAN HUGH ET AL; SALIWANCHIK LLOYD AND SALIWANCHIK A PROFESSIONAL ASSOCIATION; SALIWANCHIK LLOYD AND SALIWANCHIK, A PROFESSIONAL ASSOCIATION; FRANK C EISENSCHENK PHD SALIWANCHIK LLOYD AND SALIWANCHIK; SALIWANCHIK LLOYD AND SALIWANCHIK

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

Legal status (INPADOC)

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AU2003262217 AA	20041125	LSAS	TC	CHANGE OF APPLICANT'S NAME	PARTYTYPE : OWNER OWNER : SERONO GENETICS

				(SEC. 104)	INSTITUTE S.A. OLDPARTY : FORMER NAME: GENSET S.A.
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CA2296792 AA	20070216	LSLE	-FZDE	DEAD	
CA2319089 AA	20000726	LSPB	+	published / reissued	
CA2319089 AA	20040316	LSES	+EEER	EXAMINATION REQUEST	
CA2319089 AA	20070410	LSLE	-FZDE	DEAD	
CA2382165 AA	20020419	LSPB	+	published / reissued	
CA2382165 AA	20051122	LSES	+EEER	EXAMINATION REQUEST	
CA2382165 AA	20091207	LSLE	-FZDE	DEAD	
CA2445990 AA	20031002	LSPB	+	published / reissued	
CA2445990 AA	20060103	LSES	+EEER	EXAMINATION REQUEST	
CA2445990 AA	20090420	LSLE	-FZDE	DEAD	
DE60228408 D1	20090910	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60228408 D1	20090910	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60228408 D1	20090910	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60228408 D1	20090910	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
EP1033401 A2	20000906	LSPB	+	published / reissued	
EP1033401 A2	20031015	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : GENSET

EP1033401 A3	20040908	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20040707
EP1033401 A3	20041222	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A.
EP1033401 A3	20050112	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : SE
EP1033401 A3	20050810	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 20050623
EP1033401 A3	20070530	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 20050623
EP1033401 A3	20081001	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20080401
EP1068312 A2	20010117	LSPB	+	published / reissued	
EP1068312 A2	20010117	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20001031
EP1068312 A2	20031015	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : GENSET
EP1068312 A2	20041222	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A.
EP1068312 A2	20050420	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 20050307
EP1068312 A2	20070613	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 20050307
EP1068312 A2	20090422	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20081029
EP1252305 A2	20021030	LSPB	+	published / reissued	
EP1252305 A2	20021030	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020625
EP1252305 A2	20031029	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : GENSET S.A.
EP1252305 A2	20041215	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A.
EP1252305 A2	20070606	LSES	+17Q	FIRST EXAMINATION REPORT DESPACHED	EFFECTIVE DATE : 20051206
EP1252305 A2	20100602	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20091202
EP1357973 A2	20031105	LSPB	+	published / reissued	

EP1357973 A2	20031105	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030808
EP1357973 A2	20041222	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A.
EP1357973 A2	20070829	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20070725
EP1357973 B1	20080820	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1357973 B1	20080820	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1357973 B1	20080831	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1357973 B1	20080917	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1357973 B1	20090130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20090227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20090301	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2312594 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1357973 B1	20090331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20090430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20090529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20090120
EP1357973 B1	20090715	LSAS	REG	REFERENCE TO A NATIONAL CODE	PARTYTYPE : OWNER REF COUNTRY CODE : CH OWNER : MERCK SERONO BIODEVELOPMENT SAS REF LEGAL EVENT CODE : PFA OLDPARTY : SERONO GENETICS INSTITUTE S.A.#ROUTE NATIONALE 7#91030 EVRY CEDEX (FR) - TRANSFER TO- MERCK SERONO

EP1357973 B1	20090715	LSAS	REG	REFERENCE TO A NATIONAL CODE	BIODEVELOPMENT SAS#37 RUE SAINT ROMAIN#69008 LYON (FR) PARTYTYPE : OWNER REF COUNTRY CODE : CH OWNER : MERCK SERONO BIODEVELOPMENT SAS REF LEGAL EVENT CODE : PFA OLDPARTY : MERCK SERONO BIODEVELOPMENT SAS#37 RUE SAINT ROMAIN#69008 LYON (FR) - TRANSFER TO- MERCK SERONO BIODEVELOPMENT SAS#37 RUE SAINT ROMAIN#69008 LYON (FR)
EP1357973 B1	20090729	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20090525
EP1357973 B1	20090930	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20090228
EP1357973 B1	20091125	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1357973 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20090207
EP1357973 B1	20100129	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081120
EP1357973 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20081121
EP1357973 B1	20110429	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 : 20090207
EP1357973 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20110930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20080820
EP1357973 B1	20120430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20120221 YEAR OF FEE PAYMENT : 11
EP1357973 B1	20120430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH PAYMENT DATE : 20120214 YEAR OF FEE PAYMENT : 11
EP1357973 B1	20120531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20120131 YEAR OF FEE PAYMENT : 11

				NATIONAL OFFICE TO EPO]	
EP1357973 B1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20120201 YEAR OF FEE PAYMENT : 11
EP1357973 B1	20120629	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20120213 YEAR OF FEE PAYMENT : 11
EP1357973 B1	20130628	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20120307 YEAR OF FEE PAYMENT : 11
EP1357973 B1	20130930	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1357973 B1	20131023	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20130207
EP1357973 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130228
EP1357973 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130228
EP1357973 B1	20131122	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20131031
EP1357973 B1	20131219	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60228408 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20130903
EP1357973 B1	20131231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130207
EP1357973 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130228
EP1357973 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130903
EP1357973 B1	20140131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130207
EP1357973 B1	20140509	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20140509
EP1357973 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE

				STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130208
EP1357973 B1	20220207	PEXP		Calculated Patent Term Expiry	
EP1379648 A1	20040114	LSPB	+	published / reissued	
EP1379648 A1	20040114	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20031023
EP1379648 A1	20041222	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A.
EP1379648 A1	20070328	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20070221
EP1379648 A1	20081224	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20080703
ES2312594 T3	20090301	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2312594 T3	20220207	PEXP		Calculated Patent Term Expiry	
JP2001269182 A2	20011002	LSPB	+	published / reissued	
JP2001269182 A2	20070117	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20070116
JP2001269182 A2	20091021	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20091020
JP2001269182 A2	20100324	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20100323
JP2002511259 T2	20020416	LSPB	+	published / reissued	
JP2002511259 T2	20051217	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20051216
JP2002511259 T2	20080521	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20080520
JP2002511259 T2	20081015	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20081014
JP2003516150 T2	20030513	LSPB	+	published / reissued	
JP2003516150 T2	20071121	LSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20071120
JP2003516150 T2	20100804	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20100803
JP2003516150 T2	20110126	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20110125
JP2004536581 T2	20041209	LSPB	+	published / reissued	
US2002102604 AA	20020801	LSPB	+	published / reissued	
US2002102604 AA	20010910	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, JEAN-

					BAPTISTE DUMAS MILNE; BOUGUELERET, LYDIE; JOBERT, SEVERIN; REEL/FRAME:012154/0941; SIGNING DATES FROM 20010618 TO 20010812
US2002102604 AA	20030825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : CHANGE OF ASSIGEE ADDRESS; ASSIGNOR:GENSET S.A.; REEL/FRAME:013907/0449 EFFECTIVE DATE : 20030513
US2002102604 AA	20031216	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2002102604 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US2003152921 AA	20030814	LSPB	+	published / reissued	
US2003152921 AA	20030825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : CHANGE OF ASSIGEE ADDRESS; ASSIGNOR:GENSET S.A.; REEL/FRAME:013907/0449 EFFECTIVE DATE : 20030513
US2003152921 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US2005075285 AA	20050407	LSPB	+	published / reissued	
US2005075285 AA	20050407	LSPB	+	published / reissued	
US2005075285 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US2005075285 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US2005075285 AA	20070330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF INTELLECTUAL PROPERTY RIGHTS VIA EMPLOYMENT CONTRACT; ASSIGNOR:DUMAS MILNE EDWARDS, JEAN-BAPTISTE; REEL/FRAME:019096/0282 EFFECTIVE DATE : 19940713
US2005075285 AA	20070330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF INTELLECTUAL PROPERTY RIGHTS VIA EMPLOYMENT CONTRACT; ASSIGNOR:DUMAS MILNE EDWARDS, JEAN-BAPTISTE; REEL/FRAME:019096/0282 EFFECTIVE DATE : 19940713
US2005096458 AA	20050505	LSPB	+	published / reissued	
US2005096458 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME;

ASSIGNOR:GENSET S.A.;
REEL/FRAME:016348/0865
EFFECTIVE DATE : 20040430

US2005106595 AA	20050519	LSPB	+	published / reissued	
US2005106595 AA	20050629	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, JEAN- BAPTISTE DUMAS MILNE; DUCLERT, AYMERIC; GIORDANO, JEAN-YVES; REEL/FRAME:016432/0678; SIGNING DATES FROM 20001116 TO 20010316
US2005106595 AA	20050825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016450/0550 EFFECTIVE DATE : 20040430
US2006053498 AA	20060309	LSPB	+	published / reissued	
US2006053498 AA	20041015	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BEJANIN, STEPHANE; GIORDANO, JEAN-YVES; JOBERT, SEVERIN; AND OTHERS; REEL/FRAME:015248/0277; SIGNING DATES FROM 20031203 TO 20040113
US2006053498 AA	20050720	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:DUMAS MILNE EDWARDS, JEAN-BAPTISTE; REEL/FRAME:016287/0734 EFFECTIVE DATE : 20050702
US2006053498 AA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US2006053498 AA	20080808	LSWD	-ABD2	Abandoned -- Failure to Pay Issue Fee	
US2006130160 AA	20060615	LSPB	+	published / reissued	
US2006130160 AA	20060629	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DUMAS MILNE EDWARDS, JEAN-BAPTISTE; BOUGUELERET, LYDIE; JOBERT, SEVERIN; REEL/FRAME:017854/0167; SIGNING DATES FROM 20010618 TO 20010812
US2006130160 AA	20060629	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET, S.A., FRANCE OLDPARTY : CHANGE OF ASSIGNEE ADDRESS; ASSIGNOR:GENSET, S.A.; REEL/FRAME:017868/0864 EFFECTIVE DATE : 20030513
US2006130160 AA	20060629	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET, S.A.; REEL/FRAME:017868/0894 EFFECTIVE DATE : 20040430
US2006130160 AA	20081014	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US6783961 BA	20040831	LSGT	+	granted /	

					extensions (spc, cpc, pte)
US6783961 BA	20020613	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, JEAN- BAPTISTE DUMAS MILNE; DUCLERT, AYMERIC; GIORDANO, JEAN-YVES; REEL/FRAME:013005/0534; SIGNING DATES FROM 20020115 TO 20020214
US6783961 BA	20030825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : CHANGE OF ASSIGEE ADDRESS; ASSIGNOR:GENSET S.A.; REEL/FRAME:013907/0449 EFFECTIVE DATE : 20030513
US6783961 BA	20050510	LSRE	CC	CERTIFICATE OF CORRECTION	
US6783961 BA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US6783961 BA	20080201	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6783961 BA	20120831	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6783961 BA	20121001	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6783961 BA	20121001	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6783961 BA	20121023	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20120831
US6783961 BA	20200224	PEXP		Calculated Patent Term Expiry	
US6822072 BA	20041123	LSGT	+	granted / extensions (spc, cpc, pte)	
US6822072 BA	20010330	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET, S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, JEAN- BAPTISTE DUMAS MILNE; DUCLERT, AYMERIC; GIORDANO, JEAN-YVES; REEL/FRAME:011631/0928; SIGNING DATES FROM 20001116 TO 20010316
US6822072 BA	20030825	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : CHANGE OF ASSIGEE ADDRESS; ASSIGNOR:GENSET S.A.; REEL/FRAME:013907/0449 EFFECTIVE DATE : 20030513
US6822072 BA	20050524	LSRE	CC	CERTIFICATE OF CORRECTION	
US6822072 BA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US6822072 BA	20081123	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6822072 BA	20081222	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees	

US6822072 BA	20081222	LSLE	-STCH	Under 37 CFR 1.362 INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6822072 BA	20090113	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20081123
US6822072 BA	20191221	PEXP		Calculated Patent Term Expiry	
US7060479 BB	20060613	LSGT	+	granted / extensions (spc, cpc, pte)	
US7060479 BB	20011203	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:EDWARDS, JEAN-BAPTISTE DUMAS MILNE; BOUGUELERET, LYDIE; JOBERT, SEVERIN; REEL/FRAME:012335/0169; SIGNING DATES FROM 20010618 TO 20010812
US7060479 BB	20080422	LSRE	CC	CERTIFICATE OF CORRECTION	
US7060479 BB	20100613	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7060479 BB	20100712	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7060479 BB	20100712	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7060479 BB	20100803	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20100613
US7060479 BB	20230310	PEXP		Calculated Patent Term Expiry (PTA 640 days)	
US7115416 BA	20061003	LSGT	+	granted / extensions (spc, cpc, pte)	
US7115416 BA	20040416	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DUMAS MILNE EDWARDS, JEAN-BAPTISTE; DUCLERT, AYMERIC; GIORDANO, JEAN-YVES; REEL/FRAME:014621/0095; SIGNING DATES FROM 20020115 TO 20020214
US7115416 BA	20050803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SERONO GENETICS INSTITUTE S.A., FRANCE OLDPARTY : CHANGE OF NAME; ASSIGNOR:GENSET S.A.; REEL/FRAME:016348/0865 EFFECTIVE DATE : 20040430
US7115416 BA	20080304	LSRE	CC	CERTIFICATE OF CORRECTION	
US7115416 BA	20101003	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7115416 BA	20101101	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7115416 BA	20101101	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7115416 BA	20101123	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20101003

US7115416 BA	20240902	PEXP		Calculated Patent Term Expiry (PTA 183 days)	
US7223727 BB	20070529	LSGT	+	granted / extensions (spc, cpc, pte)	
US7223727 BB	20070529	LSGT	+	granted / extensions (spc, cpc, pte)	
US7223727 BB	20040520	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CHICCA, BARBARA; CHICCA, JOHN; DENISON, BLAKE; AND OTHERS; REEL/FRAME:014660/0576; SIGNING DATES FROM 20030913 TO 20040429
US7223727 BB	20040520	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET S.A., FRANCE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CHICCA, BARBARA; CHICCA, JOHN; DENISON, BLAKE; AND OTHERS; REEL/FRAME:014660/0576; SIGNING DATES FROM 20030913 TO 20040429
US7223727 BB	20101028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7223727 BB	20101028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7223727 BB	20150529	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7223727 BB	20150529	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7223727 BB	20150629	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7223727 BB	20150629	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7223727 BB	20150629	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7223727 BB	20150629	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7223727 BB	20150721	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150529
US7223727 BB	20150721	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20150529
US7223727 BB	20241029	PEXP		Calculated Patent Term Expiry (PTA 43 days)	
US7223727 BB	20241029	PEXP		Calculated Patent Term Expiry (PTA 43 days)	
US7235381 BB	20070626	LSGT	+	granted / extensions (spc, cpc, pte)	
US7235381 BB	20080610	LSRE	CC	CERTIFICATE OF CORRECTION	
US7235381 BB	20110626	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7235381 BB	20110725	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR	

US7235381 BB	20110725	LSLE	-STCH	1.362 INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7235381 BB	20110816	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20110626
US7235381 BB	20250414	PEXP		Calculated Patent Term Expiry (PTA 232 days)	
US7271243 BB	20070918	LSGT	+	granted / extensions (spc, cpc, pte)	
US7271243 BB	20031003	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENSET, S.A., FRANCE OLDPARTY : CORRECTION TO THE COVER SHEET (CHANGE OF NAME); ASSIGNORS:EDWARDS, JEAN- BAPTISTE DUMAS MILNE; BOUGUELERET, LYDIE; JOBERT, SEVERIN; REEL/FRA:014025/0399; SIGNING DATES FROM 20010618 TO 20010812
US7271243 BB	20110918	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7271243 BB	20111017	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7271243 BB	20111017	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7271243 BB	20111108	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20110918
US7271243 BB	20240515	PEXP		Calculated Patent Term Expiry (PTA 270 days)	
WO0142451 A2	20010614	LSPB	+	published / reissued	
WO0142451 A2	20020328	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 17265/01 COUNTRY OF REF DOCUMENT : AU
WO0142451 A2	20020419	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2382165 COUNTRY OF REF DOCUMENT : CA
WO0142451 A3	20020606	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2001 544327 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0142451 A3	20020613	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000979889 COUNTRY OF REF DOCUMENT : EP
WO0142451 A3	20021030	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000979889 COUNTRY OF REF DOCUMENT : EP
WO0142451 A3	20021114	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02069689 A2	20020912	LSPB	+	published / reissued	
WO02069689 A3	20030725	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002748339 COUNTRY OF REF DOCUMENT : EP
WO02069689 A3	20031105	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002748339 COUNTRY OF REF DOCUMENT : EP
WO02069689 A3	20031218	LSWD	REG	REFERENCE TO	REF COUNTRY CODE : DE

				NATIONAL CODE	REF LEGAL EVENT CODE : 8642
WO02069689 A3	20040916	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10467554 COUNTRY OF REF DOCUMENT : US
WO02069689 A3	20060330	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : JP
WO02069689 A3	20060330	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : JP
WO02069689 A3	20080820	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2002748339 COUNTRY OF REF DOCUMENT : EP
WO02083898 A1	20021024	LSPB	+	published / reissued	
WO02083898 A1	20031002	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2445990 COUNTRY OF REF DOCUMENT : CA
WO02083898 A1	20031014	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 158397 COUNTRY OF REF DOCUMENT : IL
WO02083898 A1	20031015	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2002582236 COUNTRY OF REF DOCUMENT : JP
WO02083898 A1	20031016	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001256599 COUNTRY OF REF DOCUMENT : AU
WO02083898 A1	20031022	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2001929922 COUNTRY OF REF DOCUMENT : EP
WO02083898 A1	20040114	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2001929922 COUNTRY OF REF DOCUMENT : EP
WO02083898 A1	20040304	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO02083898 A1	20050712	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2006053498 COUNTRY OF REF DOCUMENT : US KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO02083898 A1	20050712	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10475075 COUNTRY OF REF DOCUMENT : US
WO02083898 A1	20060309	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 10475075 COUNTRY OF REF DOCUMENT : US
WO9953051 A2	19991021	LSPB	+	published / reissued	
WO9953051 A2	19991221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 09471276 COUNTRY OF REF DOCUMENT : US
WO9953051 A3	20000726	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2319089 COUNTRY OF REF DOCUMENT : CA
WO9953051 A3	20000726	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2319089 COUNTRY OF REF DOCUMENT : CA KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9953051 A3	20001030	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1999912007 COUNTRY OF REF DOCUMENT : EP
WO9953051 A3	20001101	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO	REF DOCUMENT NUMBER : 30501/99 COUNTRY OF REF DOCUMENT : AU

WO9953051 A3	20010117	LSPB	+WWP	NATIONAL PHASE WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1999912007 COUNTRY OF REF DOCUMENT : EP
WO9953051 A3	20031204	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 30501/99 COUNTRY OF REF DOCUMENT : AU

Title: **Electric fence** insulator adaptor and **fence** insulator combined therewith

Abstract: An adaptor for converting an **electric fence** post insulator from a wire **electric** conductor support to a tape conductor support. The adaptor connects to the wire holding fingers of the insulator.

Classifications:

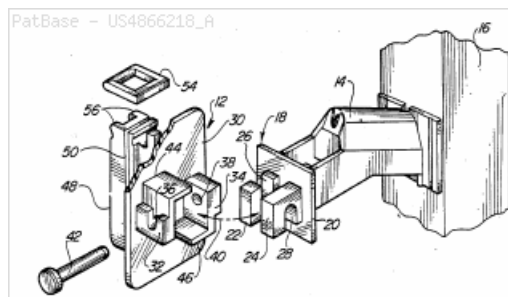
International (IPC 8-9): H01B17/14 (Advanced/Invention);
H01B17/14 (Core/Invention)

International (IPC 1-7): A01K3/00 H01B17/16

CPC: H01B17/145

European: H01B17/14B

US: 174/158F 174/171 256/10



Family:

Publication number	Publication date	Application number	Application date
US4866218 A	19890912	US19880251291	19880930

Priority:

US19880251291 19880930

Probable Assignee: DARE PRODUCTS INC A CORP OF MI

Assignee(s): (std): DARE PRODUCTS INC

Assignee(s): DARE PRODUCTS INC A CORP OF MI

Inventor(s): (std): WILSON JR ROBERT M

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US4866218 A	19890912	LSGT	+	granted / extensions (spc, cpc, pte)	
US4866218 A	19880930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DARE PRODUCTS, INC., 860 BETTERLY RD. P.O. BOX 157 OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR: WILSON, ROBERT M. JR.; REEL/FRAE: 004957/0603 EFFECTIVE DATE : 19880923
US4866218 A	19880930	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DARE PRODUCTS, INC., A CORP. OF MI, MICHIGAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: WILSON, ROBERT M. JR.; REEL/FRAE: 004957/0603 EFFECTIVE DATE : 19880923
US4866218 A	19890802	LSGT	PAT1	Patented Case	
US4866218 A	19921109	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4866218 A	19970914	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4866218 A	19971125	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19970917
US4866218 A	20180129	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4866218 A	20180129	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362

Title: LIVESTOCK LOADING/UNLOADING SYSTEM

Abstract: A livestock loading/unloading system for transporting livestock from/to a confinement area to/from a transport vehicle to allow transport from farm-to-farm, from farm-to-processing plant or from processing plant-to-farm. The livestock loading/unloading system includes a mobile conveying apparatus whereby the livestock ride a conveyor from/to the confinement area to/from a transport vehicle. Such a transport vehicle may be specially adapted for use in conjunction with the conveying apparatus, or may be of the conventional livestock transporting type. The conveying apparatus includes a telescoping end that extends into and retracts from the coops of the transport vehicle. A system of hydraulics controls the speed of the conveyor, aids in the transverse leveling of the machine, adjusts both the angle and tier of loading, and levels and controls the telescoping end of the conveyor.

Classifications:

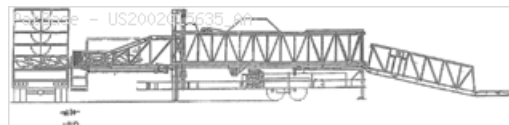
International (IPC 8-9): A01K45/00 B65G21/14 B65G41/00 B65G67/08 (Advanced/Invention)

International (IPC 1-7): B65G6/708 B65G67/00 B65G67/08

CPC: A01K45/005 B65G21/14 B65G41/008 B65G67/08

European: A01K45/00B B65G21/14 B65G41/00D2 B65G67/08

US: 119/846 119/846S 198/313 198/812 414/346 414/346P 414/398 414/398S

**Family:**

Publication number	Publication date	Application number	Application date
US2002015635 AA	20020207	US19990277427	19990326
US5902089 A	19990511	US19970804359	19970221
US6447234 BB	20020910	US19990277427	19990326

Priority:

US19970804359 19970221 US19990277427 19990326

Probable Assignee: TURKEY SCOPE LLC

Assignee(s): (std): SINN STEVEN C ; TURKEY SCOPE LLC ; WILHAM JAMES D ; WILHAM JOHN D

Assignee(s): PYLE JAMES ; BLOOME RICHARD

Inventor(s): (std): WILHAM JAMES D ; WILHAM JOHN D ; SINN STEVEN C ; PYLE JAMES ; BLOOME RICHARD

Inventor(s): JOHN D WILHAM ; JAMES PYLE ; RICHARD BLOOME ; STEVEN C SINN

Agent(s): COOK ALEX MCFARRON MANZO CUMMINGS AND MEHLER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2002015635 AA	20020207	LSPB	+	published / reissued	
US5902089 A	19990511	LSGT	+	granted / extensions (spc, cpc, pte)	
US5902089 A	19991019	LSRE	CC	CERTIFICATE OF CORRECTION	
US5902089 A	20000317	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TURKEY SCOPE, L.L.C., ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PYLE, JAMES; BLOOME, RICHARD; SINN, STEVEN C.; AND OTHERS; REEL/FRAME:010655/0976; SIGNING DATES FROM 20000218 TO 20000306
US5902089 A	20020822	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5902089 A	20061012	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5902089 A	20110511	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5902089 A	20110606	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5902089 A	20110606	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5902089 A	20110628	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20110511

US5902089 A	20170221	PEXP		Calculated Patent Term Expiry	
US6447234 BB	20020910	LSGT	+	granted / extensions (spc, cpc, pte)	
US6447234 BB	19990326	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TURKEY SCOPE, LLC, ILLINOIS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: SINN, STEVEN C.; WILHAM, JOHN A.; BLOOME, RICHARD; AND OTHERS; REEL/FRAME: 009862/0963 EFFECTIVE DATE : 19990324
US6447234 BB	20060104	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6447234 BB	20100309	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6447234 BB	20140910	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6447234 BB	20141006	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6447234 BB	20141006	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6447234 BB	20141028	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140910
US6447234 BB	20190326	PEXP		Calculated Patent Term Expiry	

Title: RADIAL-SHAPE WIRELESS DOG **FENCE** SYSTEM AND METHOD

Abstract: A radial-shaped wireless **fence** system is provided that contains one or more dogs in a user-defined area without the need for a physical **fence** or underground wire. The system includes a base unit and at least one collar, and is easy to set up and use. Through improved filtering of consecutive distance measurement values taken between the base unit and the collar, errant measurement values are discounted in terms of their contribution to the current estimate of the dog's distance from the base unit. These filtering techniques, in combination with improved signal strength and antenna diversity in the communication between the base unit and the collar, improve the accuracy and consistency with which the dog's distance from the base unit is tracked so that unwanted corrections are not administered to the dog.

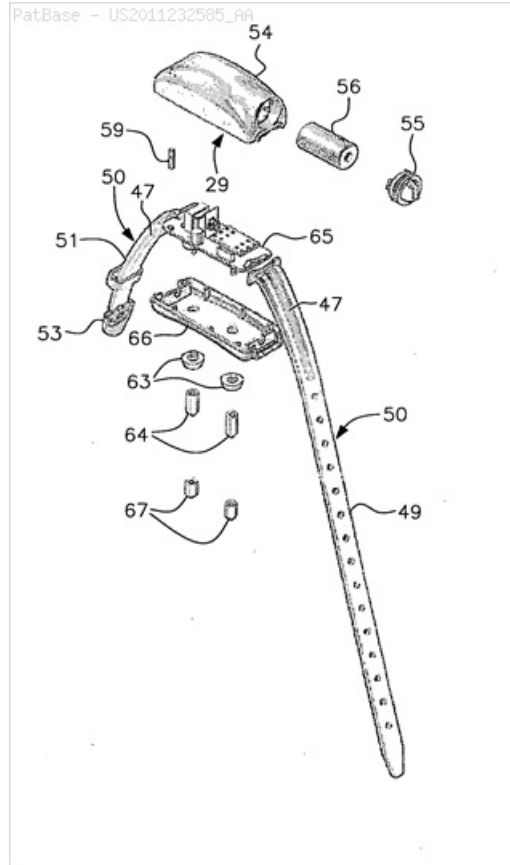
Classifications:

International (IPC 8-9): A01K15/02 A01K15/04 A01K27/00 A01K3/00
G01S1/02 G01S5/14 G08B21/00 H05C1/00 (Advanced/Invention)

CPC: A01K15/04 H04W4/021 G01S5/14 A01K15/023 A01K27/009

European: A01K15/02A2 A01K27/00H G01S5/14

US: 1/1 119/719 119/720 119/721 340/664 340/664S 342/458 342/458S



Family:

Publication number	Publication date	Application number	Application date
CA2734583 AA	20110923	CA20112734583	20110322
CA2734583 C	20180410	CA20112734583	20110322
CN102318563 A	20120118	CN201110121456	20110323
CN102318563 B	20150114	CN201110121456	20110323
US2011232585 AA	20110929	US20100926668	20101202
US2013092098 AA	20130418	US20120618253	20120914
US2013098311 AA	20130425	US20120618329	20120914
US2014305383 AA	20141016	US20140254598	20140416
US2014311422 AA	20141023	US20140254558	20140416
US8297233 BB	20121030	US20100926668	20101202
US8701600 BB	20140422	US20120618253	20120914
US8726845 BB	20140520	US20120618329	20120914
US9125381 BB	20150908	US20140254598	20140416
US9161516 BB	20151020	US20140254558	20140416
WO11119692 A1	20110929	WO2011US29569	20110323

Priority:

US20100282727P	20100323	US20100926668	20101202	CA20112734583	20110322
US20120618253	20120914	US20120618329	20120914	US20140254558	20140416
US20140254598	20140416				

Probable Assignee: WOODSTREAM CORP

Assignee(s): (std): CONRAD STEVE ; GURLEY JASON S ; PATTERSON WADE C ; WHITE JR JOHN J ; WOODSTREAM CORP ; WOODSTREAM CORP INC ; ROULSTON GARY ; GURLEY JASON SCOTT ; RICH CHRISTOPHER T ; DUTCHER ALAN PAUL ; CRUZ ROBERT THEODORE

Assignee(s): WHITE JOHN J JR ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT CORP AS ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS CORP ; WOODSTREAM INC CORP ; RADIO SYSTEMS CORP ; FIFTH THIRD BANK ADMINISTRATIVE AGENT AS ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP

Inventor(s): (std): CONRAD STEVE ; CRUZ ROBERT THEODORE ; DUTCHER ALAN PAUL ; GURLEY JASON S ; PATTERSON WADE

C ; RICH CHRISTOPHER T ; ROULSTON GARY ; STEVE CONRAD ; WHITE JOHN J JR ; WHITE JR JOHN J ; GURLEY JASON SCOTT

Agent(s): G RONALD BELL AND ASSOCIATES; RIDOUT AND MAYBEE LLP; JACOBSON HOLMAN PLLC; JACOBSON JR HARVEY B

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 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 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 MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU 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
CA2734583 AA	20110923	LSPB	+	published / reissued	
CA2734583 AA	20160119	LSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20160114
CA2734583 C	20180410	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2734583 C	20310322	PEXP		Calculated Patent Term Expiry	
CN102318563 A	20120118	LSPB	+	published / reissued	
CN102318563 A	20120118	LSPB	+C06	PUBLICATION	
CN102318563 B	20150114	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102318563 B	20150114	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102318563 B	20171114	LSAS	TR01	TRANSFER OF PATENT RIGHT	
CN102318563 B	20310323	PEXP		Calculated Patent Term Expiry	
US2011232585 AA	20110929	LSPB	+	published / reissued	
US2011232585 AA	20121010	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2013092098 AA	20130418	LSPB	+	published / reissued	
US2013092098 AA	20140402	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2013098311 AA	20130425	LSPB	+	published / reissued	
US2013098311 AA	20140430	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2014305383 AA	20141016	LSPB	+	published / reissued	
US2014305383 AA	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:035861/0104 EFFECTIVE DATE : 20150529
US2014305383 AA	20150813	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GURLEY, JASON SCOTT; ROULSTON, GARY; SIGNING DATES FROM 20120912 TO 20121119; REEL/FRAME:036323/0535
US2014305383 AA	20150819	LSGT	STCF	INFORMATION ON STATUS:	TEXT : PATENTED CASE

PATENT GRANT					
US2014311422 AA	20141023	LSPB	+	published / reissued	
US2014311422 AA	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:035861/0104 EFFECTIVE DATE : 20150529
US2014311422 AA	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DUTCHER, ALAN PAUL; CRUZ, ROBERT THEODORE; ROULSTON, GARY; SIGNING DATES FROM 20120906 TO 20120917; REEL/FRAME:035866/0225
US2014311422 AA	20150930	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US8297233 BB	20121030	LSGT	+	granted / extensions (spc, cpc, pte)	
US8297233 BB	20101202	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:RICH, CHRISTOPHER T.; PATTERSON, WADE C.; CONRAD, STEVE; AND OTHERS; SIGNING DATES FROM 20101117 TO 20101118; REEL/FRAME:025465/0121
US8297233 BB	20121010	LSGT	PAT1	Patented Case	
US8297233 BB	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:035861/0104 EFFECTIVE DATE : 20150529
US8297233 BB	20160309	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8297233 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RADIO SYSTEMS CORPORATION, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:041138/0425 EFFECTIVE DATE : 20140127
US8297233 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:ANTARES CAPITAL LP (AS SUCCESSOR TO GENERAL ELECTRIC CAPITAL CORPORATION); REEL/FRAME:041138/0284 EFFECTIVE DATE : 20170130
US8297233 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US8297233 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502

US8297233 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
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US8297233 BB	20170713	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 035861/0104; ASSIGNOR:GENERAL ELECTRIC COMPANY; REEL/FRAME:043181/0195 EFFECTIVE DATE : 20170621
US8297233 BB	20200416	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US8297233 BB	20301202	PEXP		Calculated Patent Term Expiry	
US8701600 BB	20140422	LSGT	+	granted / extensions (spc, cpc, pte)	
US8701600 BB	20121231	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:DUTCHER, ALAN PAUL; CRUZ, ROBERT THEODORE; ROULSTON, GARY; SIGNING DATES FROM 20120906 TO 20120917; REEL/FRAME:029546/0937
US8701600 BB	20140402	LSGT	PAT1	Patented Case	
US8701600 BB	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:035861/0104 EFFECTIVE DATE : 20150529
US8701600 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:ANTARES CAPITAL LP (AS SUCCESSOR TO GENERAL ELECTRIC CAPITAL CORPORATION); REEL/FRAME:041138/0284 EFFECTIVE DATE : 20170130
US8701600 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RADIO SYSTEMS CORPORATION, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:041138/0425 EFFECTIVE DATE : 20140127
US8701600 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US8701600 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT;

					ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US8701600 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US8701600 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US8701600 BB	20170713	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 035861/0104; ASSIGNOR:GENERAL ELECTRIC COMPANY; REEL/FRAME:043181/0195 EFFECTIVE DATE : 20170621
US8701600 BB	20171005	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8701600 BB	20321005	PEXP		Calculated Patent Term Expiry (PTA 21 days)	
US8726845 BB	20140520	LSGT	+	granted / extensions (spc, cpc, pte)	
US8726845 BB	20121231	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:GURLEY, JASON SCOTT; ROULSTON, GARY; SIGNING DATES FROM 20120912 TO 20121119; REEL/FRAME:029547/0082
US8726845 BB	20130321	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS ADMINISTR OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:030063/0055 EFFECTIVE DATE : 20130321
US8726845 BB	20140430	LSGT	PAT1	Patented Case	
US8726845 BB	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:035861/0104 EFFECTIVE DATE : 20150529
US8726845 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:ANTARES CAPITAL LP (AS SUCCESSOR TO GENERAL ELECTRIC CAPITAL CORPORATION); REEL/FRAME:041138/0284 EFFECTIVE DATE : 20170130
US8726845 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RADIO SYSTEMS CORPORATION, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:041138/0425 EFFECTIVE DATE : 20140127

US8726845 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US8726845 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US8726845 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US8726845 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US8726845 BB	20170628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 30063/0055; ASSIGNOR:ANTARES CAPITAL CORPORATION; REEL/FRAME:043031/0146 EFFECTIVE DATE : 20150529
US8726845 BB	20170713	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 035861/0104; ASSIGNOR:GENERAL ELECTRIC COMPANY; REEL/FRAME:043181/0195 EFFECTIVE DATE : 20170621
US8726845 BB	20171109	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8726845 BB	20321107	PEXP		Calculated Patent Term Expiry (PTA 54 days and a terminal disclaimer has been filed)	
US9125381 BB	20150908	LSGT	+	granted / extensions (spc, cpc, pte)	
US9125381 BB	20140421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:RICH, CHRISTOPHER T.; PATTERSON, WADE C.; CONRAD, STEVE; AND OTHERS; SIGNING DATES FROM 20101117 TO 20101118; REEL/FRAME:032720/0955
US9125381 BB	20150819	LSGT	PAT1	Patented Case	
US9125381 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RADIO SYSTEMS CORPORATION, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:041138/0425 EFFECTIVE DATE : 20140127

US9125381 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:ANTARES CAPITAL LP (AS SUCCESSOR TO GENERAL ELECTRIC CAPITAL CORPORATION); REEL/FRAME:041138/0284 EFFECTIVE DATE : 20170130
US9125381 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US9125381 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US9125381 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US9125381 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US9125381 BB	20190222	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9125381 BB	20340416	PEXP		Calculated Patent Term Expiry (a terminal disclaimer has been filed)	
US9161516 BB	20151020	LSGT	+	granted / extensions (spc, cpc, pte)	
US9161516 BB	20140421	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:RICH, CHRISTOPHER T.; PATTERSON, WADE C.; CONRAD, STEVE; AND OTHERS; SIGNING DATES FROM 20101117 TO 20101118; REEL/FRAME:032720/0886
US9161516 BB	20150930	LSGT	PAT1	Patented Case	
US9161516 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WOODSTREAM CORPORATION, PENNSYLVANIA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:ANTARES CAPITAL LP (AS SUCCESSOR TO GENERAL ELECTRIC CAPITAL CORPORATION); REEL/FRAME:041138/0284 EFFECTIVE DATE : 20170130
US9161516 BB	20170131	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : RADIO SYSTEMS CORPORATION, TENNESSEE OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WOODSTREAM CORPORATION; REEL/FRAME:041138/0425 EFFECTIVE DATE : 20140127

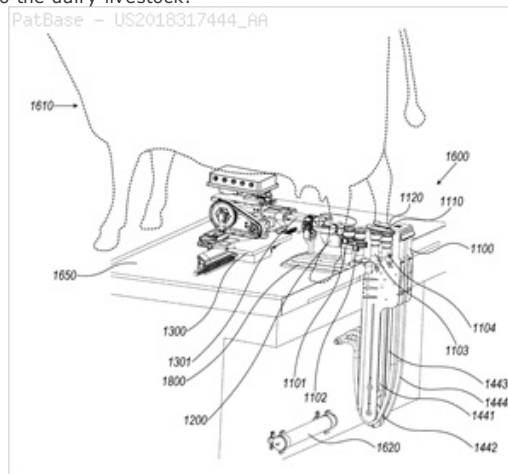
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US9161516 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOI OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US9161516 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0729 EFFECTIVE DATE : 20170502
US9161516 BB	20170522	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIFTH THIRD BANK, AS ADMINISTRATIVE AGENT, ILLINOIS OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:RADIO SYSTEMS CORPORATION; REEL/FRAME:042523/0596 EFFECTIVE DATE : 20170502
US9161516 BB	20190404	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US9161516 BB	20340422	PEXP		Calculated Patent Term Expiry (PTA 6 days and a terminal disclaimer has been filed)	
WO11119692 A1	20110929	LSPB	+	published / reissued	
WO11119692 A1	20120924	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO11119692 A1	20130417	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 11760120 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: MOBILE MILKING ROBOT WITH MINIMAL FOOTPRINT CONFigureD TO OPERATE IN A PARALLEL MILKING PARLOR

Abstract: Disclosed is a system for treating dairy livestock having fore legs and hind legs, wherein the system comprises a parallel milking parlor ramp, livestock stalls positioned along at least part of the parallel milking parlor ramp, wherein each stall is configured to contain one dairy livestock, at least one vertical upright teat cup holder comprising teat cups and a mobile unit. The mobile unit comprises equipment for treating livestock and a processor, where the mobile unit is configured to travel between the fore legs and hind legs of the dairy livestock on the parallel milking parlor ramp and use the equipment to perform at least one action related to a treatment of the dairy livestock. Also disclosed is that the equipment includes an arm configured to withdraw the teat cups from the vertical upright teat cup holder and connect them to the dairy livestock.

Classifications:

International (IPC 8-9): A01J5/00 A01J5/003 A01J5/007 A01J5/017
A01J5/04 A01J7/04 A01K1/12 B25J9/16 B60L9/00 (Advanced/Invention)
CPC: A01J5/017 A01J9/08 A01K1/126 B25J9/1679 A01J5/003 A01J5/007
A01J5/0175 A01K1/12 A01K1/123 Y10S901/01 A01J5/04 A01J7/04
US: 1/1 119/14.04 119/14.11



Family:

Publication number	Publication date	Application number	Application date
CN108347895 A	20180731	CN201680066153	20160921
EP3352561 A1	20180801	EP20160848267	20160921
EP3352561 A4	20191106	EP20160848267	20160921
EP3352562 A2	20180801	EP20160848271	20160921
EP3352562 A4	20191106	EP20160848271	20160921
EP3656210 A1	20200527	EP20190211274	20191125
US2018317444 AA	20181108	US20160536140	20160921
US2019053459 AA	20190221	US20160533654	20160921
US2019090451 AA	20190328	US20180199234	20181126
US2019269096 AA	20190905	US20190377221	20190407
US2020037570 AA	20200206	US20190596038	20191008
US10638718 BB	20200505	US20160533654	20160921
WO17051414 A1	20170330	WO2016IL51046	20160921
WO17051418 A2	20170330	WO2016IL51050	20160921
WO17051418 A3	20170803	WO2016IL51050	20160921

Priority:

US20150221116P	20150921	US20150221168P	20150921	US20150221173P	20150921
US20150221189P	20150921	US20150221216P	20150921	US20150221224P	20150921
WO2016IL51046	20160921	WO2016IL51050	20160921	US20160536140	20160921
US20160533654	20160921	US20170533654	20170607	US20180199234	20181126
US20190377221	20190407	US20190596038	20191008		

Probable Assignee: AFIMILK AGRICULTURAL COOP LTD

Assignee(s): (std): AFIMILK AGRICULTURAL COOP LTD

Assignee(s): AFIMILK AGRICULTURAL COOPERATIVE LTD

Inventor(s): (std): AMNON HAVIV ; AMNON HAVIV ; DRORI OREN ; GARTI EFRAIM ; PINSKY NIV ; SHACHAR ADAR ; SHALEM DORON

Agent(s): PEARL COHEN ZEDEK LATZER BARATZ UK LLP; AWA DENMARK A S; GROSS ROY; ROY GROSS LAW FIRM LLC; GORDON IRIT; GORDON IRIT ET AL

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 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

CN108347895 A	20180731	LSPB	+	published / reissued	
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CN108347895 A	20180731	LSPB	PB01	PUBLICATION	
EP3352561 A1	20180801	LSPB	+	published / reissued	
EP3352561 A1	20180801	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20180417
EP3352561 A4	20191106	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20191009
EP3352562 A2	20180801	LSPB	+	published / reissued	
EP3352562 A2	20180801	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20180417
EP3352562 A4	20191106	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20191009
EP3656210 A1	20200527	LSPB	+	published / reissued	
US10638718 BB	20200505	LSGT	+	granted / extensions (spc, cpc, pte)	
US10638718 BB	20360921	PEXP		Calculated Patent Term Expiry	
US2018317444 AA	20181108	LSPB	+	published / reissued	
US2018317444 AA	20180516	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFIMILK AGRICULTURAL COOPERATIVE LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PINSKY, NIV; GARTI, EFRAIM; SHALEM, DORON; AND OTHERS; SIGNING DATES FROM 20170606 TO 20170612; REEL/FRAME:045814/0054
US2018317444 AA	20181207	LSES	NFA1	Non Final Action Mailed	
US2018317444 AA	20190327	LSES	ADV1	Advisory Action Mailed	
US2018317444 AA	20190620	LSES	NFA1	Non Final Action Mailed	
US2018317444 AA	20200106	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2019053459 AA	20190221	LSPB	+	published / reissued	
US2019053459 AA	20180516	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFIMILK AGRICULTURAL COOPERATIVE LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PINSKY, NIV; GARTI, EFRAIM; SHALEM, DORON; AND OTHERS; SIGNING DATES FROM 20170523 TO 20170527; REEL/FRAME:046163/0179
US2019053459 AA	20190205	LSES	NFA1	Non Final Action Mailed	
US2019053459 AA	20190514	LSES	NFA1	Non Final Action Mailed	
US2019053459 AA	20191029	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2019053459 AA	20200127	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
US2019053459 AA	20200203	LSFE	+PPV1	Publications -- Issue Fee	

					Payment Verified
US2019053459 AA	20200415	LSGT	PAT1	Patented Case	
US2019053459 AA	20200415	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2019090451 AA	20190328	LSPB	+	published / reissued	
US2019090451 AA	20190815	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFIMILK AGRICULTURAL COOPERATIVE LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PINSKY, NIV; GARTI, EFRAIM; SHALEM, DORON; AND OTHERS; SIGNING DATES FROM 20170523 TO 20170527; REEL/FRAME:050060/0960
US2019090451 AA	20200220	LSES	NFA1	Non Final Action Mailed	
US2019269096 AA	20190905	LSPB	+	published / reissued	
US2019269096 AA	20190815	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFIMILK AGRICULTURAL COOPERATIVE LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PINSKY, NIV; GARTI, EFRAIM; SHALEM, DORON; AND OTHERS; SIGNING DATES FROM 20170523 TO 20170527; REEL/FRAME:050060/0696
US2020037570 AA	20200206	LSPB	+	published / reissued	
US2020037570 AA	20191209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AFIMILK AGRICULTURAL COOPERATIVE LTD., ISRAEL OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PINSKY, NIV; GARTI, EFRAIM; SHALEM, DORON; AND OTHERS; SIGNING DATES FROM 20170523 TO 20170527; REEL/FRAME:051226/0538
WO17051414 A1	20170330	LSPB	+	published / reissued	
WO17051414 A1	20180322	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO17051414 A1	20180423	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2016848267 COUNTRY OF REF DOCUMENT : EP
WO17051418 A2	20170330	LSPB	+	published / reissued	
WO17051418 A2	20170615	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15536140 COUNTRY OF REF DOCUMENT : US
WO17051418 A3	20180322	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO17051418 A3	20180423	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2016848271 COUNTRY OF REF DOCUMENT : EP

Title: TAPE SUPPORT

Abstract: This invention relates to a support means for tapes in general and **electric fence** tapes (9) in particular. The support means is comprised of two jaws (2,3) between which is a gripping means (8) made of a different material than the jaws (2,3) of the support means. The gripping means (8) is preferably more resilient and/or has a higher co-efficient of friction than the jaws (2,3), thereby providing a strong grip on the **electric fence** tape (9) without damaging the conductive wires therein.

Classifications:

International (IPC 8-9): A01K3/00 F16B2/06

H01B17/14 (Advanced/Invention);

F16B2/06 (Advanced/Non-invention);

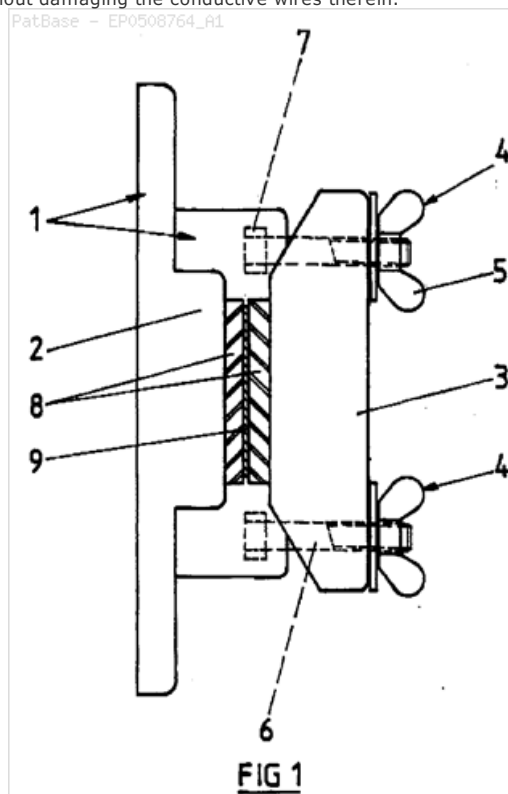
A01K3/00 H01B17/14 (Core/Invention);

F16B2/02 (Core/Non-invention)

International (IPC 1-7): A01K3/00 H01B17/14

CPC: A01K3/005 F16B2/065 H01B17/145

European: A01K3/00C H01B17/14B R16B2/06B



Family:

Publication number	Publication date	Application number	Application date
AU199214756 A1	19921015	AU19920014756	19920409
DE69200295 D1	19940908	DE19926000295	19920409
DE69200295 T2	19941124	DE19926000295T	19920409
EP0508764 A1	19921014	EP19920303143	19920409
EP0508764 B1	19940803	EP19920303143	19920409

Priority:

NZ19910237768 19910409

Probable Assignee: GALLAGHER ELECTRONICS LTD

Assignee(s): (std): GALLAGHER ELECTRONICS LTD

Assignee(s): GALLAGHER ELECTRONICS LTD HAMILTON NZ ; GALLAGHER ELECTRONICS LIMITED

Inventor(s): (std): WALLEY JOHN LEONARD

Inventor(s): WALLEY JOHN LEONARD HAMILTON NZ ; JOHN LEONARD WALLEY

Agent(s): LORD AND CO

Designated states: BE DE FR GB LU NL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199214756 A1	19921015	LSPB	+	published / reissued	
DE69200295 D1	19950831	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69200295 D1	19960411	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69200295 T2	19941124	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69200295 T2	20120409	PEXP		Calculated Patent Term Expiry	

EP0508764 A1	19921014	LSPB	+	published / reissued	
EP0508764 A1	19930505	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19930306
EP0508764 A1	19930602	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19930419
EP0508764 B1	19940803	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0508764 B1	19940803	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19940803
EP0508764 B1	19950430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19950430
EP0508764 B1	19950726	LSGT	+26N	NO OPPOSITION FILED	
EP0508764 B1	19951101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19951101
EP0508764 B1	19951229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR LAPSED DATE : 19951229
EP0508764 B1	19960102	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19951101
EP0508764 B1	19960103	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE LAPSED DATE : 19960103
EP0508764 B1	19960329	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0508764 B1	19960409	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB LAPSED DATE : 19960409
EP0508764 B1	19961127	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19960409
EP0508764 B1	20120409	PEXP		Calculated Patent Term Expiry	

Title: **FENCE** STRAND RETAINER CLIP FOR **FENCE** POSTS

Abstract: The invention relates to a retainer clip or latch attached to a **fence** post, such as a plastic **fence** post, for use in **electric fences**, that can be used with different types of **fence** strand members, and that is operated by hand to permit easy securement and removal of the **fence** strand members. The clip includes first and second portions which are hingedly attached together at one end and are releasably engageable with each other at the opposite end. The clip defines a loop at one end for holding an elongate **fence** strand member, such as wire, and an elongated area for holding a broader **fence** strand members, such as **electric** tape. The loop and elongated area are separated by a finger which extends from the second portion and into a notch in the first portion. The clips can be directly attached to a head portion of a T-shaped **fence** post at spaced locations along its length. In other embodiments, the clip is attached to an elongate bar which is detachably secured to the head portion of the **fence** post, or the clip is attached to an end cap which is detachably secured to an end of the **fence** post.

Classifications:

International (IPC 8-9): A01K3/00 E01F9/011 E04H17/10 E04H17/12 E04H17/20 E04H17/24 (Advanced/Invention);

A01K3/00 E01F9/011 E04H17/02 (Core/Invention)

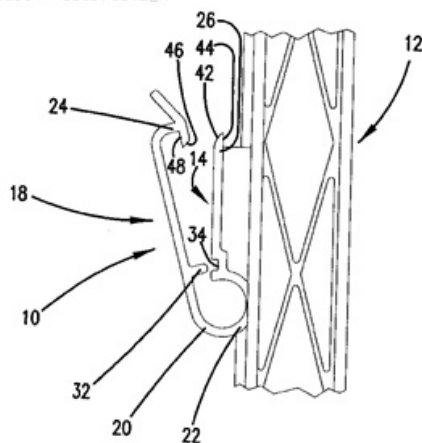
International (IPC 1-7): E04H17/10 E04H17/12 E04H17/20 E04H17/24

CPC: Y10S256/03 A01K3/005 E04H17/10 E01F9/685

European: A01K3/00C E01F9/011F6 E04H17/10

US: 174/158F 256/10 256/48 256/54 256/DIG.3

PatBase - US5975501_H



Family:

Publication number	Publication date	Application number	Application date
CA2244035 AA	19990308	CA19982244035	19980904
US5975501 A	19991102	US19970925576	19970908
US6296233 BA	20011002	US19990370417	19990809

Priority:

US19970925576 19970908 CA19982244035 19980904 US19990370417 19990809

Probable Assignee: ZAREBA SYSTEMS INC

Assignee(s): (std): NORTH CENTRAL PLASTICS INC ; NORTH CENTRAL PLASTICS

Assignee(s): WATERS INSTRUMENTS INC ; WELLS FARGO BUSINESS CREDIT INC ; ZAREBA SYSTEMS INC ; WELLS FARGO BANK NATIONAL ASSOCIATION ; WELLS FARGO BUSINESS CREDIT INC A DELAWARE CORP ; LANGLIE RONALD H ; ZABERA SYSTEMS INC ; ANTARES CAPITAL ADMINISTRATIVE AGENT AS CORP ; ANTARES CAPITAL CORP ; ARES CAPITAL COLLATERAL AGENT AS CORP ; BERG JON A ; BUELOW DAVID F ; GENERAL ELECTRIC CAPITAL COLLATERAL AGENT AS CORP

Inventor(s): (std): BERG JON A ; LANGLIE RONALD H ; BUELOW DAVID F

Inventor(s): JON A BERG ; RONALD H LANGLIE ; DAVID F BUELOW

Agent(s): ROBIC; MERCHANT AND GOULD PC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2244035 AA	19990308	LSPB	+	published / reissued	
CA2244035 AA	20040907	LSLE	-FZDE	DEAD	
US5975501 A	19991102	LSGT	+	granted / extensions (spc, cpc, pte)	
US5975501 A	19980313	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NORTH CENTRAL PLASTICS, MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BERG, JON A.; LANGLIE, RONALD H.; BUELOW, DAVID F.; REEL/FRAME:009047/0667 EFFECTIVE DATE : 19980227
US5975501 A	19991025	LSGT	PAT1	Patented Case	

US5975501 A	19991025	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US5975501 A	20010827	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WATERS INSTRUMENTS, INC., MINNESOTA OLDPARTY : MERGER; ASSIGNOR:NORTH CENTRAL PLASTICS, INCORPORATED; REEL/FRAME:012110/0163 EFFECTIVE DATE : 20010806
US5975501 A	20030501	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5975501 A	20030609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WATERS INSTRUMENTS, INC., MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:NORTH CENTRAL PLASTICS, INCORPORATED; REEL/FRAME:014146/0693 EFFECTIVE DATE : 20010709
US5975501 A	20040924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BUSINESS CREDIT, INC., MINNESOTA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WATERS INSTRUMENTS, INC.; REEL/FRAME:015177/0617 EFFECTIVE DATE : 20040907
US5975501 A	20051206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., MINNESOTA OLDPARTY : CHANGE OF NAME; ASSIGNOR:WATERS INSTRUMENTS, INC.; REEL/FRAME:016851/0370 EFFECTIVE DATE : 20051027
US5975501 A	20070306	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US5975501 A	20100108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., MINNESOTA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION; REEL/FRAME:023750/0830 EFFECTIVE DATE : 20100108
US5975501 A	20100323	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BUSINESS CREDIT, INC., A DELAWARE CORP OLDPARTY : MERGER; ASSIGNOR:WELLS FARGO BUSINESS CREDIT, INC., A MINNESOTA CORPORATION; REEL/FRAME:024120/0617 EFFECTIVE DATE : 20050725
US5975501 A	20100323	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION,MINNESOTA OLDPARTY : MERGER; ASSIGNOR:WELLS FARGO BUSINESS CREDIT, INC., A DELAWARE CORPORATION; REEL/FRAME:024120/0662 EFFECTIVE DATE : 20050725
US5975501 A	20100401	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANTARES CAPITAL CORPORATION, AS ADMINISTRATIVE AGE OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:024170/0545 EFFECTIVE DATE : 20100401
US5975501 A	20110502	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US5975501 A	20150609	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:035858/0647 EFFECTIVE DATE : 20150529
US5975501 A	20170628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZABERA SYSTEMS, INC., PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 24170-0545; ASSIGNOR:ANTARES CAPITAL CORPORATION; REEL/FRAME:043030/0432 EFFECTIVE DATE : 20150529

US5975501 A	20170712	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 35858/0647; ASSIGNOR:GENERAL ELECTRIC CAPITAL CORPORATION; REEL/FRAME:043172/0349 EFFECTIVE DATE : 20170621	
US5975501 A	20170724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ARES CAPITAL CORPORATION, AS COLLATERAL AGENT, NEW OLDPARTY : SECURITY INTEREST; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:043083/0684 EFFECTIVE DATE : 20170621	
US5975501 A	20170908	PEXP		Calculated Patent Term Expiry		
US6296233 BA	20011002	LSGT	+	granted / extensions (spc, cpc, pte)		
US6296233 BA	20010914	LSGT	PAT1	Patented Case		
US6296233 BA	20010914	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE	
US6296233 BA	20040924	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BUSINESS CREDIT, INC., MINNESOTA OLDPARTY : SECURITY INTEREST; ASSIGNOR:WATERS INSTRUMENTS, INC.; REEL/FRAME:015177/0617 EFFECTIVE DATE : 20040907	
US6296233 BA	20050629	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US6296233 BA	20051206	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., MINNESOTA OLDPARTY : CHANGE OF NAME; ASSIGNOR:WATERS INSTRUMENTS, INC.; REEL/FRAME:016851/0370 EFFECTIVE DATE : 20051027	
US6296233 BA	20090320	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8	
US6296233 BA	20100108	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., MINNESOTA OLDPARTY : RELEASE BY SECURED PARTY; ASSIGNOR:WELLS FARGO BANK, NATIONAL ASSOCIATION; REEL/FRAME:023750/0830 EFFECTIVE DATE : 20100108	
US6296233 BA	20100316	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WATERS INSTRUMENTS, INC.,MINNESOTA OLDPARTY : MERGER; ASSIGNOR:NORTH CENTRAL PLASTICS, INCORPORATED; REEL/FRAME:024079/0793 EFFECTIVE DATE : 20010806	
US6296233 BA	20100316	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : NORTH CENTRAL PLASTICS,MINNESOTA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BERG, JON A.; LANGLIE, RONALD H.; BUELOW, DAVID F.; REEL/FRAME:024079/0812 EFFECTIVE DATE : 19980227	
US6296233 BA	20100323	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BUSINESS CREDIT, INC., A DELAWARE CORP OLDPARTY : MERGER; ASSIGNOR:WELLS FARGO BUSINESS CREDIT, INC., A MINNESOTA CORPORATION; REEL/FRAME:024120/0617 EFFECTIVE DATE : 20050725	
US6296233 BA	20100323	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : WELLS FARGO BANK, NATIONAL ASSOCIATION,MINNESOTA OLDPARTY : MERGER; ASSIGNOR:WELLS	

US6296233 BA	20100401	LSAS	AS	ASSIGNMENT	FARGO BUSINESS CREDIT, INC., A DELAWARE CORPORATION; REEL/FRAME:024120/0662 EFFECTIVE DATE : 20050725
US6296233 BA	20130401	LSFE	+FPAY	FEE PAYMENT	PARTYTYPE : OWNER OWNER : ANTARES CAPITAL CORPORATION, AS ADMINISTRATIVE AGE OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:024170/0545 EFFECTIVE DATE : 20100401
US6296233 BA	20150609	LSAS	AS	ASSIGNMENT	YEAR OF FEE PAYMENT : 12 PARTYTYPE : OWNER OWNER : GENERAL ELECTRIC CAPITAL CORPORATION, AS COLLATERA OLDPARTY : SECURITY INTEREST; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:035858/0647 EFFECTIVE DATE : 20150529
US6296233 BA	20170628	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZABERA SYSTEMS, INC., PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 24170-0545; ASSIGNOR:ANTARES CAPITAL CORPORATION; REEL/FRAME:043030/0432 EFFECTIVE DATE : 20150529
US6296233 BA	20170712	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ZAREBA SYSTEMS, INC., PENNSYLVANIA OLDPARTY : RELEASE OF SECURITY INTEREST RECORDED AT REEL/FRAME 35858/0647; ASSIGNOR:GENERAL ELECTRIC CAPITAL CORPORATION; REEL/FRAME:043172/0349 EFFECTIVE DATE : 20170621
US6296233 BA	20170724	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ARES CAPITAL CORPORATION, AS COLLATERAL AGENT, NEW OLDPARTY : SECURITY INTEREST; ASSIGNOR:ZAREBA SYSTEMS, INC.; REEL/FRAME:043083/0684 EFFECTIVE DATE : 20170621
US6296233 BA	20190809	PEXP		Calculated Patent Term Expiry	

Title: **FENCE** GATE HANDLE

Abstract: A gate handle for providing an opening in an electrified **fence**, including a hollow plastic housing flared at both ends and having an end wall at one end. An elongated tubular plunger is disposed in said housing and extends through an opening in said end wall by which the plunger is supported for axial sliding movement with respect to the housing. Said plunger has a radially outwardly extending flange on the interior end thereof which slidably engages the housing. A coil spring is disposed within one end of the plunger. A hook and an eyelet, which are at opposite ends of the housing, have elongated shanks secured to the opposite ends of the spring. The eyelet shank slidably extends axially through the exposed end of the plunger, and the hook shank extends through a closure member secured to the housing at the end thereof opposite the end wall. The plunger has an axially and radially extending slot for assisting in the **assembly** of the spring, plunger, hook and eyelet.

Classifications:

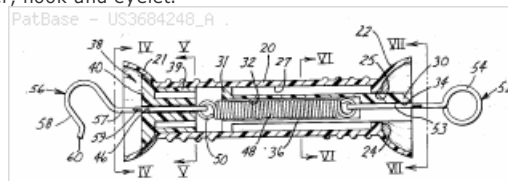
International (IPC 8-9): A01K3/00 (Advanced/Invention);
A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/0

CPC: A01K1/0017 A01K3/005

European: A01K1/00A2 A01K3/00C

US: 256/10 256/39



Family:

Publication number	Publication date	Application number	Application date
US3684248 A	19720815	US19710161081	19710709

Priority:

US19710161081 19710709

Probable Assignee:

MAES INC

Assignee(s): (std):

MAES INC

Inventor(s): (std):

MAES ROBERT E JR

Inventor(s):

ROBERT E MAES JR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3684248 A	19720815	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ANIMAL CONTROL SYSTEM USING GLOBAL POSITIONING AND INSTRUMENTAL ANIMAL CONDITIONING

Abstract: A device worn externally (or parts of which may be inserted in the ear canal) by an animal which uses a programmable repertoire of bilaterally applied aversive stimuli for the autonomous control of an animal's location and direction of movement is disclosed. Electromagnetic signals and electromechanical hardware are activated through a dedicated, embedded computer system, that allows a cascade of one or more aversive stimuli, normally acoustic and/or electrical stimulation, to be bilaterally applied to either the right or left side of an animal as a cue to change its location through a specific direction of movement. Aversive stimuli are programmed to be administered only when an animal penetrates a predetermined boundary. The embedded computer uses satellite position system data to determine the animal's location with respect to the closest boundary line and then calculates when and to which side of the animal the repertoire of bilateral aversive stimuli is to be applied.

Classifications:

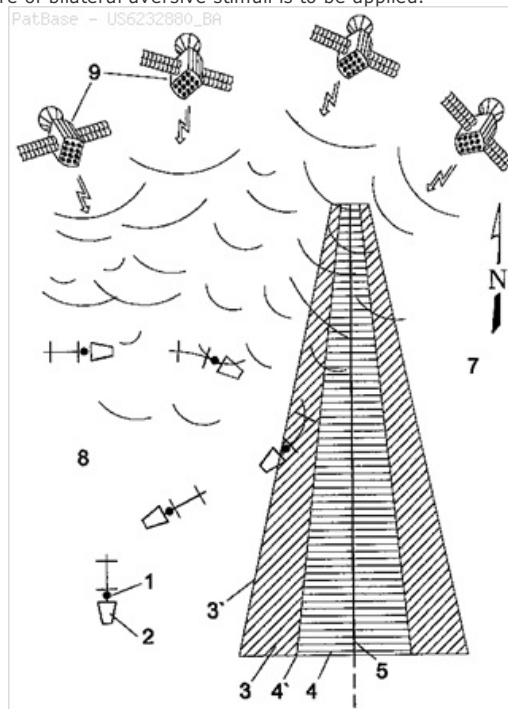
International (IPC 8-9): A01K15/02 G08B23/00 (Advanced/Invention); A01K15/00 (Core/Invention)

International (IPC 1-7): A01K15/04 G08B2/300 G08B23/00

CPC: A01K15/023

European: A01K15/02A2

US: 119/421 119/721 340/573.1 340/573.3 340/573.4

**Family:**

Publication number	Publication date	Application number	Application date
AU200071352 A1	20010130	AU20000071352	20000714
AU200071352 A5	20010130	AU20000071352	20000714
US6232880 BA	20010515	US19990353713	19990714
WO0104858 A1	20010118	WO2000US40383	20000714

Priority:

US19990353713 19990714 WO2000US40383 20000714

Probable Assignee: US AGRICULTURE

Assignee(s): (std): US AGRICULTURE ; HALE CRAIG S

Assignee(s): SECRETARY OF AGRICULTURE AS US GOV ; CRAIG S HALE ; AGRICULTURE US GOV SECRETARY OF AS ; AGRICULTURE US SEC ; SECRETARY O AS US GOV ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY O ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF AGRICULTURE

Inventor(s): (std): HALE CRAIG S ; ANDERSON DEAN M

Inventor(s): DEAN M ANDERSON ; CRAIG S HALE

Agent(s): M HOWARD SILVERSTEIN; RANDALL E DECK; JOHN D FADO

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 CR CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200071352 A1	20010130	LSPB	+	published / reissued	
AU200071352 A5	20020418	LSLE	-MK6	APPLICATION LAPSED SECTION 142(2)(F)/REG. 8.3(3) - PCT APPLIC. NOT ENTERING NATIONAL PHASE	

US6232880 BA	20010515	LSGT	+	granted / extensions (spc, cpc, pte)	
US6232880 BA	19990714	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : AGRICULTURE, UNITED STATES OF AMERICA, AS REPRESENTATIVE OLDPARTY : ASSIGNMENT OF ASSIGNOR'S INTEREST; ASSIGNOR:ANDERSON, DEAN M.; REEL/FRAME:010107/0217 EFFECTIVE DATE : 19990712
US6232880 BA	20041122	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6232880 BA	20081118	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6232880 BA	20130515	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6232880 BA	20130610	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6232880 BA	20130610	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6232880 BA	20130702	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20130515
US6232880 BA	20190714	PEXP		Calculated Patent Term Expiry	
WO0104858 A1	20010118	LSPB	+	published / reissued	
WO0104858 A1	20020508	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0104858 A1	20021009	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO0104858 A1	20040419	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : JP

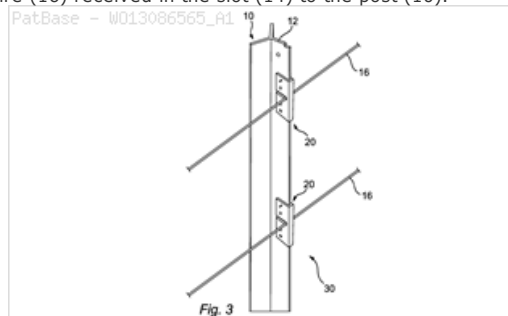
Title: **FENCING ASSEMBLY** WITH CLIP

Abstract: A **fencing assembly** including: a) at least one post (10), the post (10) having at least one flange (12) with at least a pair of recesses or apertures (18, 19) provided in the flange (12), b) at least one clip (20), the clip (20) having a pair of arms (22), the arms (22) being joined and forming a receiving space therebetween for receiving a portion of the flange (12), and at least a pair of protrusions (26, 28) on at least one arm of the clip (20), the protrusions (26, 28) extending inwardly into the receiving space, the positioning of the protrusions (26, 28) corresponding to the positioning of the recesses or apertures (18, 19) in the flange (12); c) at least one slot (14, 24) provided in at least one of the flange (12) of the post (10) or the clip (20) having for receiving a length of wire (16), the slot (14) being located between the apertures or recesses (18, 19) in the flange (12) and/or between the protrusions (26, 28) on the at least one arm (22) of the clip (20), and d) a length of wire (16) received in the slot (14) in the post (10) or clip (20), wherein the at least one pair of protrusions (26, 28) and/or the arms (22) are deformable to allow the flange (12) of the post (10) to be inserted into the receiving space of the clip (20), and the protrusions (26, 28) are adapted to fixably engage with the corresponding apertures or recesses (18, 19) on the flange (12) to retain the clip (20) and the wire (16) received in the slot (14) to the post (10) thereby securing the wire (16) received in the slot (14) to the post (10).

Classifications:

International (IPC 8-9): A01K3/00 E01F9/03 E01F9/669
E04H17/10 (Advanced/Invention)

CPC: A01K3/00 E04H17/10 A01K3/005 E04H17/12



Family:

Publication number	Publication date	Application number	Application date
AU2013201530 AA	20130808	AU20130201530	20121213
WO13086565 A1	20130620	WO2012AU01519	20121213

Priority:

AU20110905186 20111213 WO2012AU01519 20121213

Probable Assignee: MAHONEY MARK JOSHUA

Assignee(s): (std): MAHONEY MARK JOSHUA

Inventor(s): (std): MAHONEY MARK JOSHUA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD

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 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 MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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
AU2013201530 AA	20130808	LSPB	+	published / reissued	
WO13086565 A1	20130620	LSPB	+	published / reissued	
WO13086565 A1	20130315	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013201530 COUNTRY OF REF DOCUMENT : AU
WO13086565 A1	20140613	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO13086565 A1	20150107	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12856989 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: INSULATOR

Abstract: The invention provides an insulator, suitable for holding a wire strand which may easily engage a support post to form a removable or semi-permanent engagement with the support post. The insulator comprises an elongate body of substantially constant cross section incorporating at least one bore extending at least partially therethrough (to accommodate a wire strand) and incorporating at least one flange and at least one form of restraining means. The insulator may incorporate the detection of an untensioned wire strand and/or tensioning thereof. The invention further provides an **fence assembly** and a method of erecting a wire **fence**.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/14

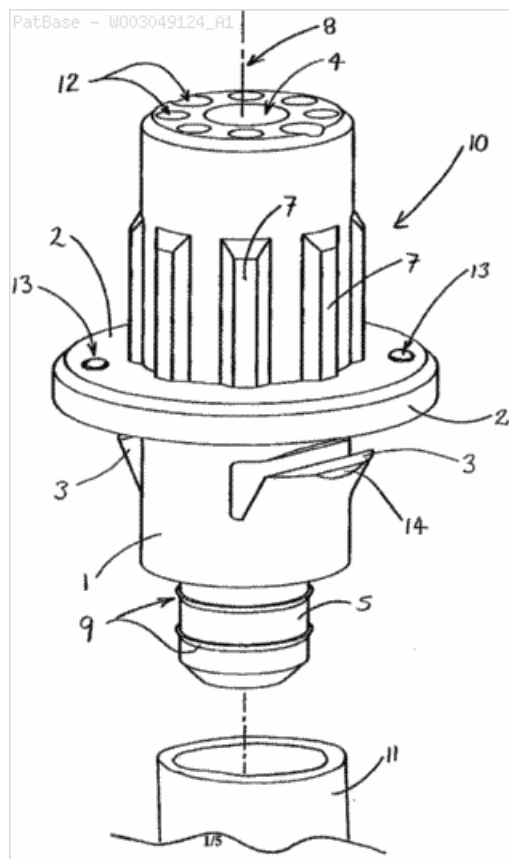
H01B17/58 (Advanced/Invention);

A01K3/00 H01B17/14 H01B17/58 (Core/Invention)

International (IPC 1-7): H01B17/14

CPC: A01K3/005 H01B17/145 H01B17/58

European: A01K3/00C H01B17/14B H01B17/58



Family:

Publication number	Publication date	Application number	Application date
WO03049124 A1	20030612	WO2001ZA00192	20011206

Priority:

WO2001ZA00192 20011206

Probable Assignee: JOAO PETER COLIN

Assignee(s): (std): JOAO PETER COLIN

Inventor(s): (std): JOAO PETER COLIN

Designated states: AM AT AZ BE BF BJ BY CF CG CH CI CM CY DE DK ES FI FR GA GB GH GM GN GQ GR GW IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RU SD SE SL SN SZ TD TG TJ TM TR TZ UG ZA ZW

Legal status (INPADOC)

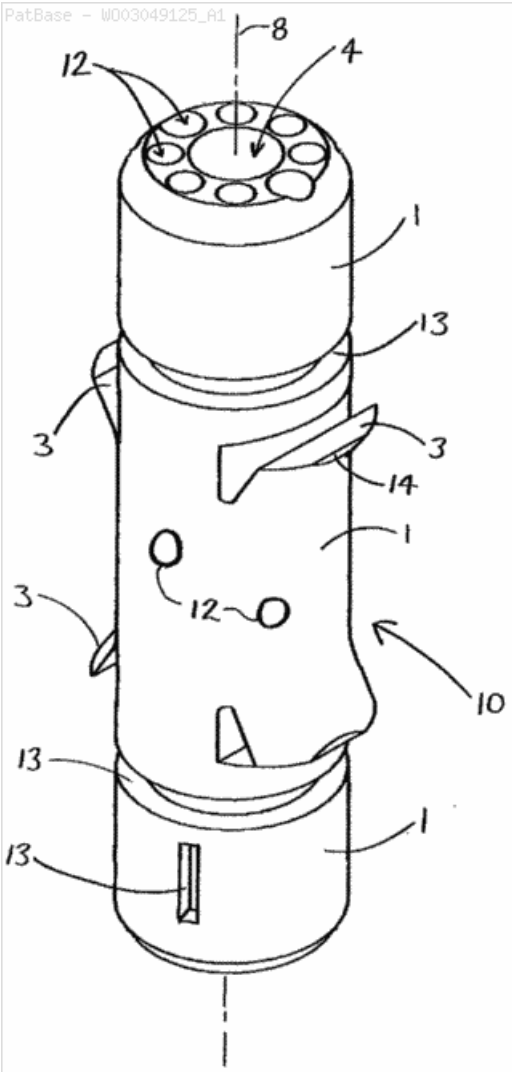
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Patent	Date recorded	Event group	Code	Event	Details
WO03049124 A1	20030612	LSPB	+	published / reissued	
WO03049124 A1	20050119	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: WIRE INSULATOR

Abstract: The invention provides a single insulator, suitable for holding a wire strand which may easily engage a support post to form a removable or semi-permanent engagement with the support post. The insulator comprises an elongate body of substantially constant cross section incorporating at least one bore extending at least partially therethrough, to accomodate a wire strand, and incorporating at least one form of restraining means. The insulator may further be adapted to incorporate detection of an un-tensioned wire strand and/or tensioning thereof. The invention further provides a **fence assembly** and a method of erecting a wire **fence**.

Classifications:
International (IPC 8-9): A01K3/00 H01B17/14 H01B17/58 (Advanced/Invention); A01K3/00 H01B17/14 H01B17/58 (Core/Invention)
International (IPC 1-7): H01B17/14
CPC: A01K3/005 H01B17/145 H01B17/58
European: A01K3/00C H01B17/14B H01B17/58



Family:

Publication number	Publication date	Application number	Application date
WO03049125 A1	20030612	WO2001ZA00193	20011206

Priority:

WO2001ZA00193 20011206

Probable Assignee: JOAO PETER COLIN

Assignee(s): (std): JOAO PETER COLIN

Inventor(s): (std): JOAO PETER COLIN

Designated states: AM AT AZ BE BF BJ BY CF CG CH CI CM CY DE DK ES FI FR GA GB GH GM GN GQ GR GW IE IT KE KG KZ LS LU MC MD ML MR MW MZ NE NL PT RU SD SE SL SN SZ TD TG TJ TM TR TZ UG US ZA ZM ZW

Legal status (INPADOC)

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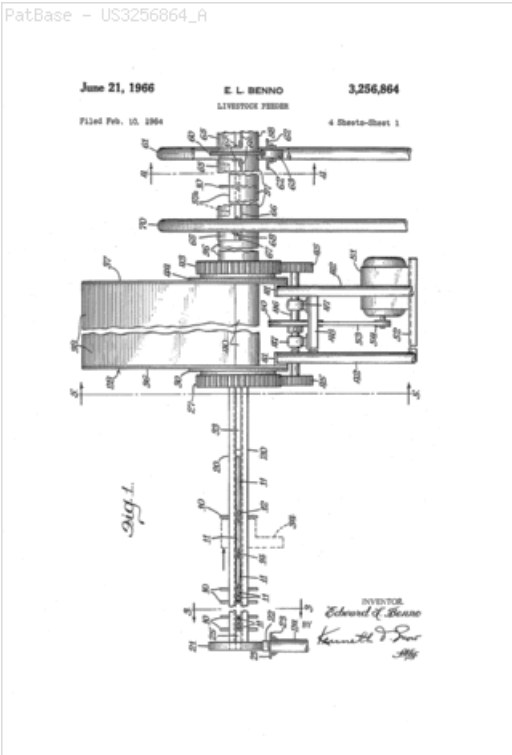
Patent	Date recorded	Event group	Code	Event	Details
WO03049125 A1	20030612	LSPB	+	published / reissued	
WO03049125 A1	20050119	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO



Title: LIVESTOCK FEEDER

Abstract: (Claim 1) 1. In a livestock feeder, a feed tube, means carrying said feed tube to extend through a livestock feeding area, an extensible conveyor extendable from one end of said feed tube and through said feed tube for supplying feed through said tube by an extension of said conveyor through said tube, said conveyor being independent Of any connection to said tube longitudinally thereof, means for dumping feed from said tube longitudinally thereof and means for withdrawing said conveyor from the said one end of the feed tube, whereby separate charges of feed may be moved by the conveyor through the tube from the said one end.

Classifications:
International (IPC 8-9): A01K5/02 (Advanced/Invention);
A01K5/00 (Core/Invention)
International (IPC 1-7): A01K5/00
CPC: A01K5/0208
European: A01K5/02B
US: 119/56.2 119/57.7 198/741 198/749



Family:

Publication number	Publication date	Application number	Application date
US3256864 A	19660621	US19640343607	19640210

Priority:
US19640343607 19640210

Probable Assignee: KENNETH T SNOW
Assignee(s): (std): KENNETH T SNOW
Inventor(s): (std): BENNO EDWARD L

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3256864 A	19660621	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Isolator fuer einen Elektrozaun

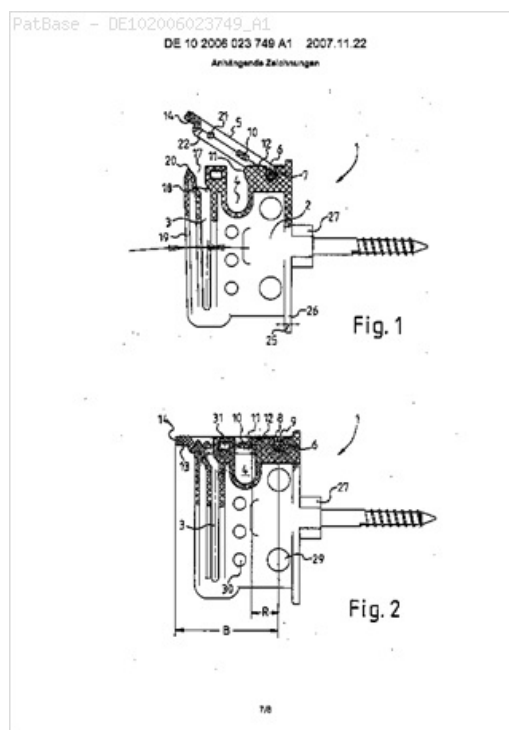
Abstract: The insulator has an insulation body (2) that partly consists of an electrically insulating material, and a retainer (3) provided for a **fence** conductor. A closing bracket (5) is rotatable around an axis (6) and provided for closing the retainer, where a resting unit (11) is provided at the insulation body for snapping the closing bracket. The resting unit is arranged between the retainer for the **fence** conductor and the axis of rotation of the closing bracket. A lever of the closing bracket is provided for overcoming the rest resistance, when closing the bracket.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/24 (Advanced/Invention);
A01K3/00 H01B17/00 (Core/Invention)

CPC: H01B17/24

European: H01B17/24



Family:

Publication number	Publication date	Application number	Application date
DE102006023749 A1	20071122	DE200610023749	20060518
DE102006023749 B4	20080605	DE200610023749	20060518

Priority:

DE200610023749 20060518

Probable Assignee: ALBERT KERBL GMBH
Assignee(s): (std): ALBERT KERBL GMBH
Inventor(s): (std): BUHMANN ELMAR ; PETER TOBIAS

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102006023749 A1	20071122	LSPB	+	published / reissued	
DE102006023749 A1	20071122	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE102006023749 A1	20081204	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE102006023749 A1	20161201	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
DE102006023749 B4	20080605	LSGT	+	granted / extensions (spc, cpc, pte)	
DE102006023749 B4	20260518	PEXP		Calculated Patent Term Expiry	

Title: DISPOSITIF DE SUPPORT D'UN FIL DE CLOTURE SUR UN PIQUET SUPPORT DEVICE FOR CLOSING ON A WIRE ROD
(Machine translation)

Abstract: Source: FR1228903A [FR] (Claim 1) 1 Il est constitue d'une partie tubulaire desti nee a s'enfiler sur le piquet, ladite partie tubulaire etant solidaire, d'une part, de moyens pour suppor ter le fil de cloture et, d'autre part, d'une patte en matiere elastique formant ressort, terminee par un crochet susceptible de prendre appui sur le piquet, ledit crochet etant, lorsque la patte n'est soumise a aucune tension, decale par rapport a l'axe de la partie tubulaire;

Machine translation: (Claim 1) is a is a tube nee destination has to put on the post, said tubular portion being integral, on the one hand, means to suppor ter of the wire **fence** and, On the other hand, a leg spring elastic material, ending in a hook can be supported on the post, said hook being, when the tab is subjected to no tension, offset from the axis of the part tubular

Classifications:

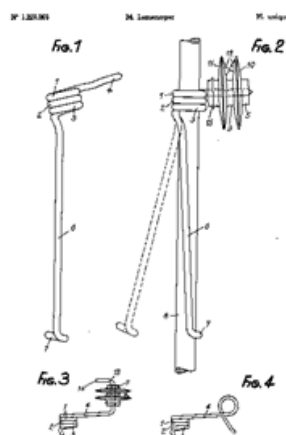
International (IPC 8-9): H01B17/14 (Advanced/Invention);
H01B17/14 (Core/Invention)

International (IPC 1-7): A01K3/00

CPC: H01B17/145

European: H01B17/14B

PatBase - FR1228903_A



Family:

Publication number	Publication date	Application number	Application date
FR1228903 A	19600902	FR19590789427	19590316

Priority:

FR19590789427 19590316

Inventor(s): (std): LEMENAGER ETIENNE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR1228903 A	19600902	LSGT	+	granted / extensions (spc, cpc, pte)	
FR1228903 A	19790316	PEXP		Calculated Patent Term Expiry	

Title: RETAINING SYSTEM

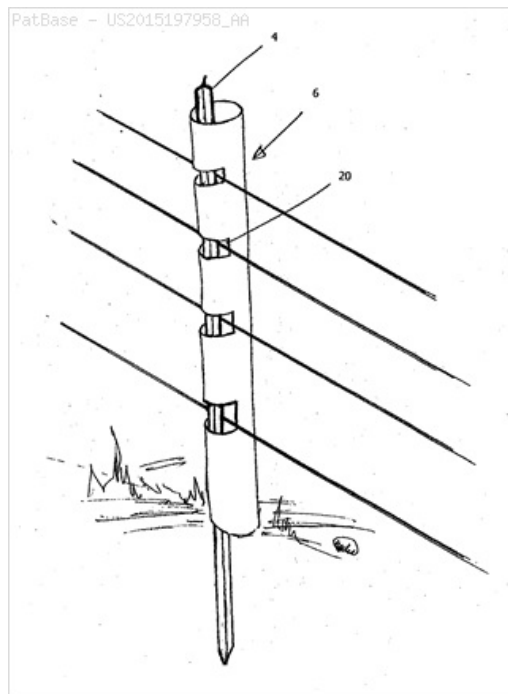
Abstract: Embodiments of the invention relate to the retention of **fence** mesh, **fence** wires and flexible screens to stakes, pickets and the like and which avoid the need for individual ties. In particular, in some embodiments the retention effect is provided by a slotted tube engaged around the stake or picket to provide retention over the full height of the stake or picket. In other embodiments the stake or picket is slotted to receive **fence** wires or the wires of **fence** mesh with locking means applied to the picket or stake to retain the wires in the slots.

Classifications:

International (IPC 8-9): A01K3/00 E01F15/00 E01F7/02 E04H17/02 E04H17/06 E04H17/10 E04H17/12 E04H17/14 E04H17/20 (Advanced/Invention)

CPC: A01K3/005 E01F7/025 E01F13/028 E04H17/12 E04H17/20 E04H17/02 E04H17/06 E04H17/10 E04H17/14 E04H2017/1447

US: 256/10 256/34 256/47 256/65.02 256/65.05



Family:

Publication number	Publication date	Application number	Application date
AU2013302293 AA	20150305	AU20130302293	20130801
AU2013302293 BB	20170928	AU20130302293	20130801
AU2014100892 AD	20140911	AU20140100892	20140807
AU2014100892 BD	20141127	AU20140100892	20140807
AU2017204799 AA	20170727	AU20170204799	20170712
BR112015003375 A2	20170704	BR20151103375	20130801
CA2881953 AA	20150213	CA20132881953	20130801
EP2904178 A1	20150812	EP20130829094	20130801
EP2904178 A4	20161026	EP20130829094	20130801
NZ704975 A	20170331	NZ20130704975	20130801
US2015197958 AA	20150716	US20130421741	20130801
WO14026216 A1	20140220	WO2013AU00847	20130801

Priority:

AU20120903571 20120817 AU20130302293 20130801 WO2013AU00847 20130801
 AU20140100892 20140807 AU20170204799 20170712

Probable Assignee: FAS WILSON PTY LTD

Assignee(s): (std): FAS WILSON PTY LTD ; ROSSMARG PTY LTD

Assignee(s): WILSON MALCOLM

Inventor(s): (std): WILSON MALCOLM ; MALCOLM WILSON

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; CARPMAELS AND RANSFORD LLP; HIND RAYMOND

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 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 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
AU2013302293 AA	20150305	LSPB	+	published / reissued	

AU2013302293 BB	20170928	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2013302293 BB	20180125	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2013302293 BB	20330801	PEXP		Calculated Patent Term Expiry	
AU2014100892 AD	20140911	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014100892 AD	20140911	LSGT	+FGI	LETTERS PATENT SEALED OR GRANTED (INNOVATION PATENT)	
AU2014100892 AD	20141106	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : FAS WILSON PTY LTD OLDPARTY : FORMER OWNER WAS: ROSSMARG PTY. LTD.
AU2014100892 AD	20340807	PEXP		Calculated Patent Term Expiry	
AU2014100892 BD	20141127	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2014100892 BD	20141127	LSGT	+FF	CERTIFIED INNOVATION PATENT	
AU2014100892 BD	20340807	PEXP		Calculated Patent Term Expiry	
AU2017204799 AA	20170727	LSPB	+	published / reissued	
AU2017204799 AA	20190228	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2) (D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
BR112015003375 A2	20170704	LSPB	+	published / reissued	
BR112015003375 A2	20180529	LSFE	-B08F	APPLICATION FEES: DISMISSAL - ARTICLE 86 OF INDUSTRIAL PROPERTY LAW	
BR112015003375 A2	20181023	LSLE	-B08K	LAPSE AS NO EVIDENCE OF PAYMENT OF THE ANNUAL FEE HAS BEEN FURNISHED TO INPI (ACC. ART. 87)	TEXT : EM VIRTUDE DO ARQUIVAMENTO PUBLICADO NA RPI 2473 DE 29-05-2018 E CONSIDERANDO AUSENCIA DE MANIFESTACAO DENTRO DOS PRAZOS LEGAIS, INFORMO QUE CABE SER MANTIDO O ARQUIVAMENTO DO PEDIDO DE PATENTE, CONFORME O DISPOSTO NO ARTIGO 12, DA RESOLUCAO 113/2013.
CA2881953 AA	20150213	LSPB	+	published / reissued	
CA2881953 AA	20190912	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20190801
EP2904178 A1	20150812	LSPB	+	published / reissued	
EP2904178 A1	20150812	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20150310
EP2904178 A4	20161026	LSES	+RA4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED (CORRECTED)	EFFECTIVE DATE : 20160923
EP2904178 A4	20180321	LSES	+17Q	FIRST	EFFECTIVE DATE : 20180219

				EXAMINATION REPORT DESPATCHED	
EP2904178 A4	20181205	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20180703
NZ704975 A	20170331	LSPB	+	published / reissued	
NZ704975 A	20170728	LSGT	+PSEA	PATENT SEALED	
NZ704975 A	20180629	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 01 AUG 2019 BY CPA GLOBAL EFFECTIVE DATE : 20180614
NZ704975 A	20190628	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 01 AUG 2020 BY CPA GLOBAL EFFECTIVE DATE : 20190620
US2015197958 AA	20150716	LSPB	+	published / reissued	
US2015197958 AA	20150602	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FAS WILSON PTY LTD, AUSTRALIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:WILSON, MALCOLM; REEL/FRAME:035768/0465 EFFECTIVE DATE : 20140318
US2015197958 AA	20170424	LSES	NFA1	Non Final Action Mailed	
US2015197958 AA	20170804	LSES	NFA1	Non Final Action Mailed	
US2015197958 AA	20180821	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO14026216 A1	20140220	LSPB	+	published / reissued	
WO14026216 A1	20150213	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2881953 COUNTRY OF REF DOCUMENT : CA
WO14026216 A1	20150213	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 14421741 COUNTRY OF REF DOCUMENT : US
WO14026216 A1	20150217	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO14026216 A1	20150305	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2013302293 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20130801 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO14026216 A1	20150310	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2013829094 COUNTRY OF REF DOCUMENT : EP
WO14026216 A1	20170704	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 112015003375 COUNTRY OF REF DOCUMENT : BR KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) : EFFECTIVE DATE : 20150213

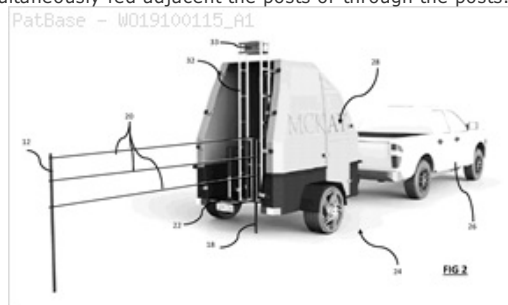
Title: **FENCING** SYSTEM

Abstract: A **fencing** system includes a moveable platform capable of being driven independently or towed behind a vehicle. A post driver **assembly** is mounted to the platform and a post feeding **assembly** is configured to hold a series of posts and successively feed them into the post driver **assembly**. The post driver **assembly** is adapted to drive the successive posts into the ground. At least one wire spool is mounted to the platform and configured to gradually allow wire to feed out of the rear of the platform as the platform is moved forward. The system is adapted to enable the platform to be moved forward and stopped at intermediate distances to drive posts into the ground, with wire being simultaneously fed adjacent the posts or through the posts.

Classifications:

International (IPC 8-9): A01K3/00 E04H17/26 (Advanced/Invention)

CPC: E04H17/26



Family:

Publication number	Publication date	Application number	Application date
WO19100115 A1	20190531	WO2018AU51253	20181123

Priority:

AU20170904755 20171124

Probable Assignee: MCKAY HUGH

Assignee(s): (std): MCKAY HUGH

Inventor(s): (std): MCKAY HUGH

Agent(s): FPA PATENT ATTORNEYS PTY LTD

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 JO JP KE KG KH KM KN KP KR KW KZ LA LC 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)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
WO19100115 A1	20190531	LSPB	+	published / reissued	

Title: Device for screwing in and unscrewing pasture-fence insulators

Abstract: A hook-shaped pasture-fence insulator has a screw thread at one end and the insulator head as the other end, which is bent off in the form of a U. A housing (40) can be pushed onto the insulator head, an annular groove of the insulator head being guided in a wide slot (54), and the U-shaped rod of the insulator being guided in an opposite, narrow slot (52), of the housing (40). A connection stub (34) with a polygon socket (36) is welded on the rear end wall (50) of the housing (40), the axis of the polygon duct (36) being in alignment with that of the screw thread of the insulator. The insulator can be rapidly screwed in and unscrewed without any damage by means of a bit brace.

Classifications:

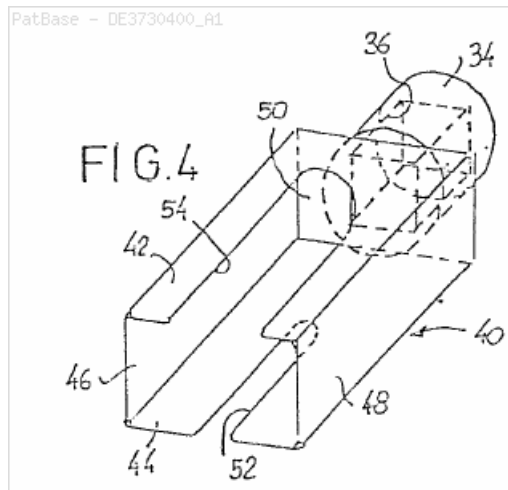
International (IPC 8-9): A01K3/00 H01B17/24 (Advanced/Invention);

A01K3/00 H01B17/00 (Core/Invention)

International (IPC 1-7): A01K3/00 H01B17/24 H02G1/02

CPC: A01K3/005 H01B17/24

European: A01K3/00C H01B17/24



Family:

Publication number	Publication date	Application number	Application date
DE3730400 A1	19890323	DE19873730400	19870910

Priority:

DE19873730400 19870910

Probable Assignee:

KRACKE HERIBERT

Assignee(s): (std):

KRACKE HERIBERT

Inventor(s): (std):

KRACKE HERIBERT

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
DE3730400 A1	19890323	LSPB	+	published / reissued	
DE3730400 A1	19911010	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	

Title: ELECTRICAL **FENCE** POST WITH WIRE-CONNECTOR

Abstract: (Claim 1) in the scope of the appended claims. claim- 1.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/14 (Advanced/Invention);
A01K3/00 H01B17/14 (Core/Invention)

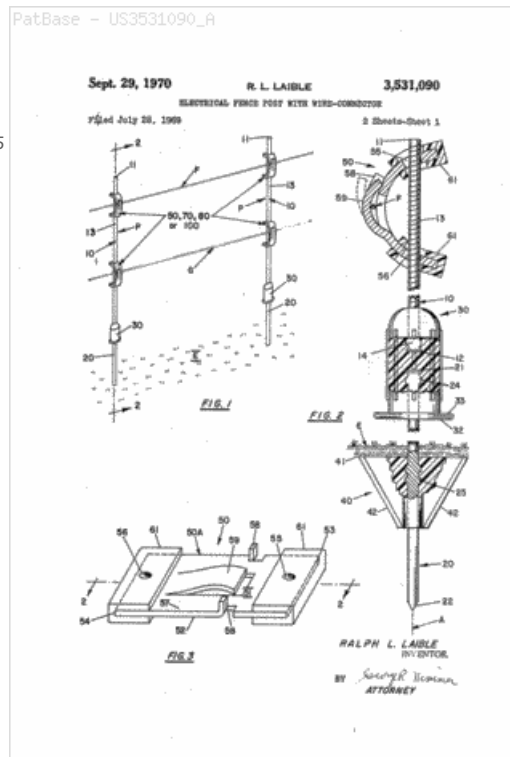
International (IPC 1-7): A01K3/00

CPC: H01B17/145 A01K3/005 Y10T24/44906

European: A01K3/00C H01B17/14B

US: 174/161F 174/45R 24/561 256/10 256/54 47/46 47/47 52/153 52/165
52/736.1

PatBase - US3531090_A



Family:

Publication number	Publication date	Application number	Application date
US3531090 A	19700929	US19690845175	19690728

Priority:

US19690845175 19690728

Probable Assignee:

RALPH L LAIBLE

Assignee(s): (std):

RALPH L LAIBLE

Inventor(s): (std):

LAIBLE RALPH L

Inventor(s):

RALPH L LAIBLE

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3531090 A	19700929	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: HOERNISOLATOR FOER ELSTAENGSELTRAD

Abstract: The insulator **assembly** comprises a mounting plate (9) affixed by screws (3, 4) to a **fence** post and having two insulated holders (1, 2) which retain a vertical rod (5). The rod serves as an axle for an rotatable insulator (6) in the form of a wheel with two flanges (7, 8) which keep in place a wire running around it.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/14 (Advanced/Invention);

A01K A01K3/00 H01B17/14 (Core/Invention);

A01K (Subclass/Invention)

International (IPC 1-7): A01K3/00 H01B17/14

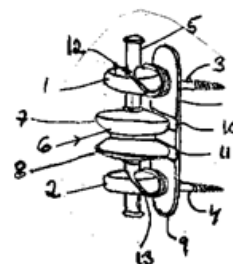
CPC: A01K3/005 H01B17/14

European: A01K3/00C H01B17/14

PatBase - SE525075_C2

525 075

PRV 03:12:15N



Family:

Publication number	Publication date	Application number	Application date
SE200303312 A	20041123	SE20030003312D	20031206
SE200303312 A0	20031206	SE20030003312	20031206
SE200303312 L	20041123	SE20030003312	20031206
SE525075 C2	20041123	SE20030003312	20031206

Priority:

SE20030003312 20031206

Probable Assignee: TINGSVIK LARS

Assignee(s): (std): LARS TINGSVIK ; TINGSVIK LARS

Inventor(s): (std): TINGSVIK LARS ; LARS TINGSVIK

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
SE200303312 A	20041123	LSPB	+	published / reissued	
SE525075 C2	20041123	LSGT	+	granted / extensions (spc, cpc, pte)	
SE525075 C2	20060822	LSLE	-NUG	PATENT HAS LAPSED	
SE525075 C2	20231206	PEXP		Calculated Patent Term Expiry	

Title: STOCK SHELTER, WITH REMOVABLE ROOF, ATTACHABLE TO **FENCE** POST

Abstract: The stock shelter has a roof attached to supports which sit substantially on farmland surfaces and are able to be fitted to **fence** post. The roof is readily demountable from the roof supports.

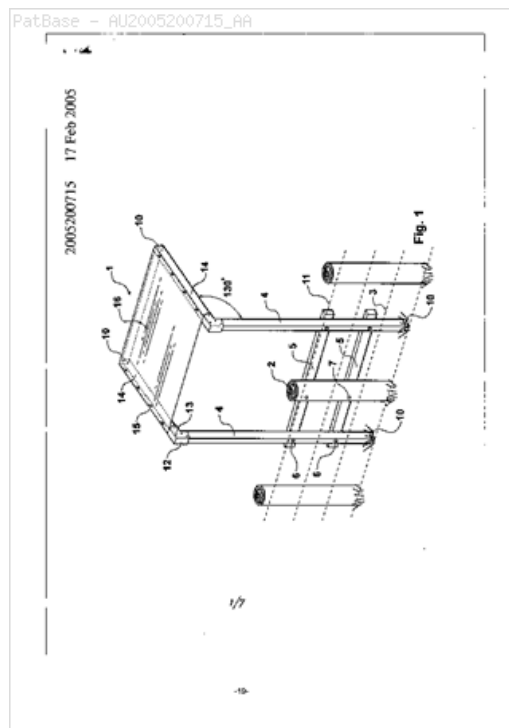
Classifications:

International (ipc 8-9): A01K1/00 E04H17/00

E04H5/08 (Advanced/Invention);

A01K1/00 E04H17/00 E04H5/00 (Core/Invention)

International (ipc 1-7): A01K1/00 E04H15/00 E04H15/32 E04H15/34
E04H15/36 E04H17/00 E04H5/08



Family:

Publication number	Publication date	Application number	Application date
AU2005200715 AA	20050901	AU20050200715	20050217
NZ531161 A	20060929	NZ20040531161	20040217

Priority:

NZ20040531161 20040217

Probable Assignee:

KIM TURNER

Assignee(s): (std):

KIM TURNER ; TURNER KIM

Inventor(s): (std):

TURNER KIM

Inventor(s):

KIM TURNER

Agent(s):

MIDDLETONS; K AND L GATES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2005200715 AA	20050901	LSPB	+	published / reissued	
AU2005200715 AA	20100909	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
NZ531161 A	20060929	LSPB	+	published / reissued	
NZ531161 A	20070126	LSGT	+PSEA	PATENT SEALED	
NZ531161 A	20090130	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	

Title: Contact arrangement for gate or the like

Abstract: A contact arrangement for a gate or the like in an **electric fence** comprising a first component 1 adapted to be mounted on one of a gate and a gate post and a second component 3 adapted to be mounted on the other of the gate and the gate post. Each of the first and second components includes a contact member 11, 19 at least one of which is resilient, adapted to make contact with the contact member 19, 11 of the other component of the gate when the gate is closed and to break contact with the contact member of the other component when the gate is open. Each component may comprise an arm 7, one of which is preferably bent at 45 degrees. The contact members are attached to the arms and may be curved in a convex manner. A buckle for attaching the **electric fence** cable to the gate is also claimed (Figure 9).

Classifications:

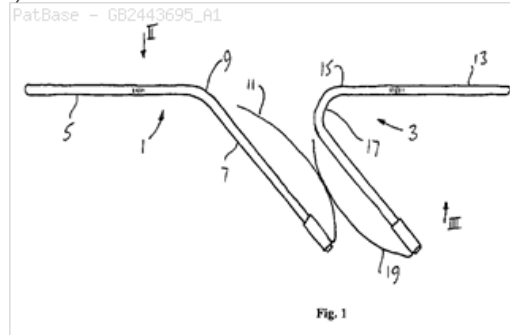
International (IPC 8-9): A01K3/00 E06B11/02

H01H3/16 (Advanced/Invention);

A01K3/00 E06B11/00 H01H3/16 (Core/Invention)

CPC: A01K3/005 H01H3/161 E06B11/02 H01H3/16

European: A01K3/00C E06B11/02 H01H3/16 T01H3/16B



Family:

Publication number	Publication date	Application number	Application date
GB200622422 A0	20061220	GB20060022422	20061110
GB2443695 A1	20080514	GB20060022422	20061110

Priority:

GB20060022422 20061110

Probable Assignee: HONOR TREVOR J

Assignee(s): (std): HONOR TREVOR J ; HONOR TREVOR JAMES

Assignee(s): TREVOR JAMES HONOR

Inventor(s): (std): HONOR TREVOR JAMES

Inventor(s): TREVOR JAMES HONOR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2443695 A1	20080514	LSPB	+	published / reissued	
GB2443695 A1	20120516	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	

Title: Insulating mounting **assembly**

Abstract: An insulating mounting **assembly** for an **electric fence** or the like comprises a first part 21 of electrically insulating material and including a second part or base 25 for mounting on a support, the second part 23 of electrically insulating material is connected to the first part 21. A buckle 11 of electrically conducting material is positioned between the first 21 and second 25 parts. The buckle 11 is used to electrically connect lengths of conducting **fence** wires to the mounting.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/14 (Advanced/Invention);
H01B17/14 (Core/Invention)

CPC: H01B17/145 A01K3/005

European: A01K3/00C H01B17/14B

PatBase - GB2443696_B2

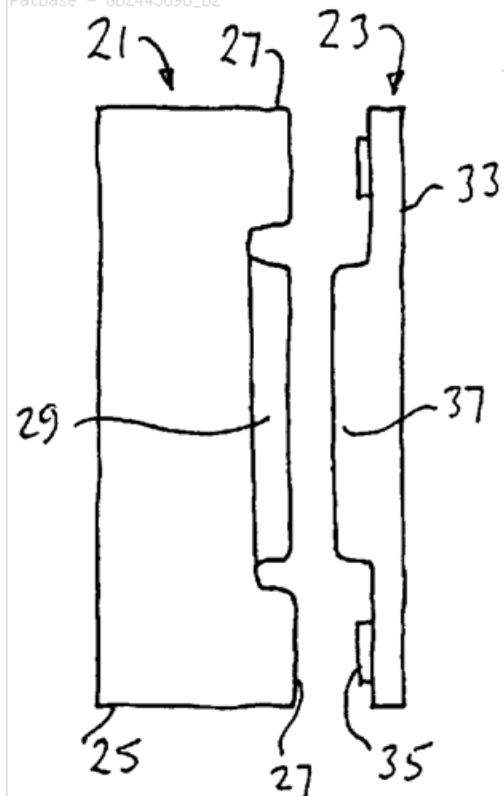


Fig. 3

Family:

Publication number	Publication date	Application number	Application date
GB200622423 A0	20061220	GB20060022423	20061110
GB2443696 A1	20080514	GB20060022423	20061110
GB2443696 B2	20100908	GB20060022423	20061110

Priority:

GB20060022423 20061110

Probable Assignee: HONOR TREVOR J

Assignee(s): (std): HONOR TREVOR J ; HONOR TREVOR JAMES

Assignee(s): TREVOR JAMES HONOR

Inventor(s): (std): HONOR TREVOR JAMES

Inventor(s): TREVOR JAMES HONOR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2443696 A1	20080514	LSPB	+	published / reissued	
GB2443696 B2	20100908	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2443696 B2	20120725	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20111110
GB2443696 B2	20120829	LSRE	S28	RESTORATION OF CEASED PATENTS	TEXT : APPLICATION

				(SECT. 28/PAT. ACT 1977)	FILED
GB2443696 B2	20130313	LSRE	S28	RESTORATION OF CEASED PATENTS (SECT. 28/PAT. ACT 1977)	TEXT : APPLICATION WITHDRAWN EFFECTIVE DATE : 20130218
GB2443696 B2	20261110	PEXP	Calculated Patent Term Expiry		

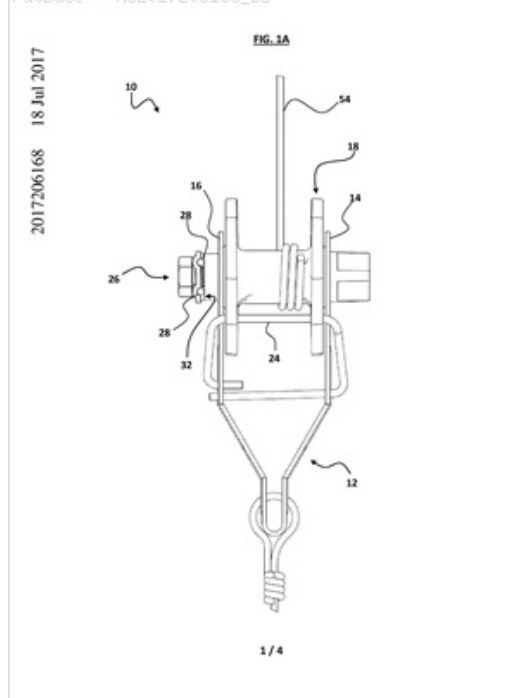
Title: A LINE STRAINER

Abstract: Disclosed is an electrically conductive line strainer and **electric fence** system to provide improved electrical connections allowing longer runs of **electric fencing**. The electrically conductive line strainer include a spool having an electrically conductive axle with a first end and a second end; a securing mechanism at the first end of the axle, configured to secure an electrically conductive link to an electrical pathway to the spool at the first end of the axle. The securing mechanism includes a bearing member configured to act against the conductive link when secured by the securing mechanism, the bearing member including at least one elongate recess on a surface of the bearing member facing the first end of the axle. The recess is configured to receive at least a portion of the conductive link. The elongate recess intersects a perimeter of the face of the bearing element at two points. The recess is positioned on the bearing element such that in use at least a portion of the recess always overlaps a surface of the electrical pathway to the spool. The bearing element includes at least one elongate recess on either side of an aperture in the bearing element. The bearing element is configured to rotate relative to the spool when in a non-secured state.

Classifications:

International (IPC 8-9): A01K3/00 E04H17/06
F16G11/12 (Advanced/Invention)

PatBase - AU2017206168_BB



Family:

Publication number	Publication date	Application number	Application date
AU2015204345 AA	20160204	AU20150204345	20150716
AU2015204345 BB	20170420	AU20150204345	20150716
AU2017206168 AA	20170803	AU20170206168	20170718
AU2017206168 BB	20191031	AU20170206168	20170718
NZ627387 A	20160129	NZ20140627387	20140716
NZ714606 A	20170630	NZ20140714606	20140716

Priority:

NZ20140627387 20140716 NZ20140714606 20140716 AU20150204345 20150716
AU20170206168 20170718

Probable Assignee: GALLAGHER GROUP LTD

Assignee(s): (std): GALLAGHER GROUP LTD

Inventor(s): (std): WADE ROBERT ANDREW ; ROBERT ANDREW WADE

Agent(s): JAMES AND WELLS INTELLECTUAL PROPERTY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2015204345 AA	20160204	LSPB	+	published / reissued	
AU2015204345 AA	20170817	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2015204345 BB	20170420	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2015204345 BB	20350716	PEXP		Calculated Patent	

Term Expiry					
AU2017206168 AA	20170803	LSPB	+	published / reissued	
AU2017206168 BB	20191031	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2017206168 BB	20200227	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2017206168 BB	20370718	PEXP		Calculated Patent Term Expiry	
NZ627387 A	20160129	LSPB	+	published / reissued	
NZ627387 A	20160527	LSGT	+PSEA	PATENT SEALED	
NZ627387 A	20180427	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 16 JUL 2019 BY GALLAGHER GROUP LIMITED EFFECTIVE DATE : 20180423
NZ627387 A	20190726	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 16 JUL 2020 BY GALLAGHER GROUP LIMITED EFFECTIVE DATE : 20190710
NZ714606 A	20170630	LSPB	+	published / reissued	
NZ714606 A	20171027	LSGT	+PSEA	PATENT SEALED	
NZ714606 A	20180629	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 16 JUL 2019 BY GALLAGHER GROUP LIMITED EFFECTIVE DATE : 20180612
NZ714606 A	20190726	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 16 JUL 2020 BY GALLAGHER GROUP LIMITED EFFECTIVE DATE : 20190705

Title: **Electric**-pulse-carrying, wind-stable delimiting band for **fencing** animals in or out

Abstract: **Electric**-pulse-carrying, wind-stable delimiting band with contact bridges for **fencing** animals in or out. To simplify **fencing** systems, in particular for **fencing** in horses and other domesticated animals or **fencing** out wild animals, use is made of the **fencing** band which is made of highly flexible weather-resistant artificial fibres and, because of its construction, can be fastened to virtually all **electric** insulators. The good optical detectability is influenced very little by the chessboard-like openings for achieving a neutral wind action (no flapping or tipping), and the pulse wires, which run in the edge region and are connected by contact bridges against disruptions as a result of interruption of a pulse conductor, guarantee as great a contact possibility as possible.

Classifications:

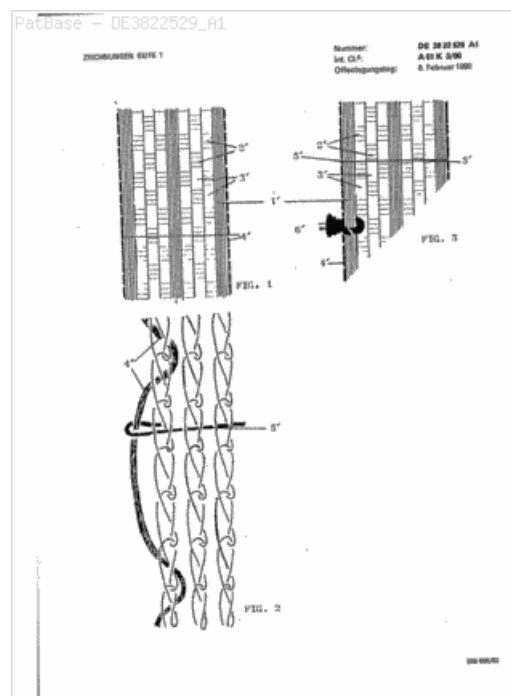
International (IPC 8-9): A01K3/00 (Advanced/Invention);

A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00

CPC: A01K3/005

European: A01K3/00C



Family:

Publication number	Publication date	Application number	Application date
DE3822529 A1	19900208	DE19883822529	19880704

Priority:

DE19883822529 19880704

Probable Assignee: HOECK WOLFGANG DIPL ING

Assignee(s): (std): HOECK WOLFGANG DIPL ING

Assignee(s): HOECK WOLFGANG DIPL ING 4292 RHEDE DE

Inventor(s): (std): HOECK WOLFGANG DIPL ING

Inventor(s): HOECK WOLFGANG DIPL ING 4292 RHEDE DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3822529 A1	19900208	LSPB	+	published / reissued	
DE3822529 A1	19900329	LSSES	+8101	REQUEST FOR EXAMINATION AS TO NOVELTY	
DE3822529 A1	19900531	LSSES	+8105	SEARCH REPORT AVAILABLE	
DE3822529 A1	19950907	LSSES	+8110	REQUEST FOR EXAMINATION PARAGRAPH 44	
DE3822529 A1	19970710	LSRV	-8131	REJECTION	

Title: SELF-CONTAINED **ELECTRIC FENCE** CONTROL CABLE

Abstract: ABSTRACT OF THE DISCLOSURE

A flexible cable **assembly** for electrically charged **fences** in which an electrical potential difference is established between adjacent spaced contact surfaces at longitudinally spaced locations. A pair of wire conductors are mounted in spaced, insulated relation to each other by the cable **assembly** but are electrically exposed through contact plates for example, at the longitudinally spaced locations. Adjacent contact plates are adapted to be bridged by an animal engaging the **fence** completing a circuit through the conductors to impart a repelling shock to the animal for controlled feeding purposes or the like.

Classifications:

International (IPC 8-9): H01B7/10 H05C1/00 (Advanced/Invention);

H01B7/10 H05C1/00 (Core/Invention)

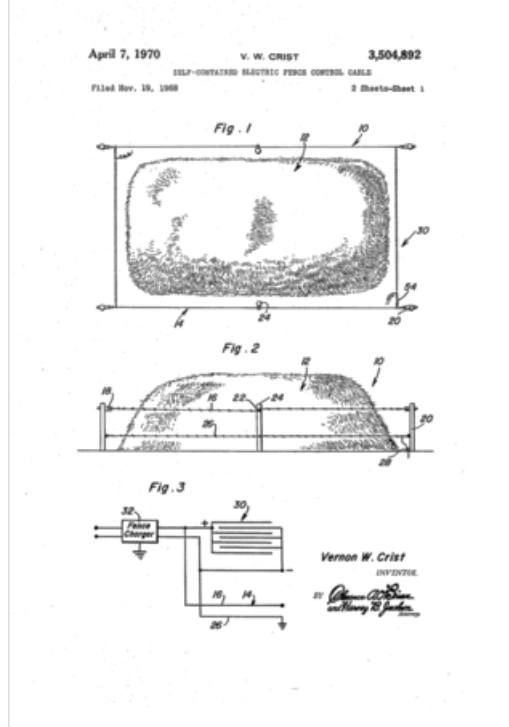
International (IPC 1-7): A01K1/10 A01K3/00

CPC: H01B7/10 H05C1/00

European: H01B7/10 H05C1/00

US: 174/117R 174/70R 256/10 43/112

PatBase - US3504892_R



Family:

Publication number	Publication date	Application number	Application date
US3504892 A	19700407	US19680776957	19681119

Priority:

US19680776957 19681119

Probable Assignee:

STA TITE CORP

Assignee(s): (std):

STA TITE CORP

Inventor(s): (std):

CRIST VERNON W

Inventor(s):

VERNON W CRIST

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US3504892 A	19700407	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Abreuvoir Water trough (Machine translation)

Abstract: Source: CH385553A [FR] [Source: Claim 1] 1. Abreuvoir selon la revendication, caracterise en ce que ladite soupape comprend au moins une desdites admissions d'eau dans le reservoir et en ce que le flotteur est pourvu de moyens s'elevant verticalement au-dessus du flotteur de maniere a entourer la soupape, ces moyens etant relies a la soupape pour l'ouvrir et la fermer durant la montee et la descente du reservoir, respectivement, et dirigeant l'eau depuis la soupape dans le reservoir.

Machine translation: [Source: Claim 1] 1. trough of claim, characterized in that said valve includes at least one of said photographs of water in the tank and that the float is provided with means is worth vertically above the float so as to surround the valve, these means being related a lice valve open and close it during the ascent and descent of the tank respectively, and the water from the valve in the tank.

Classifications:

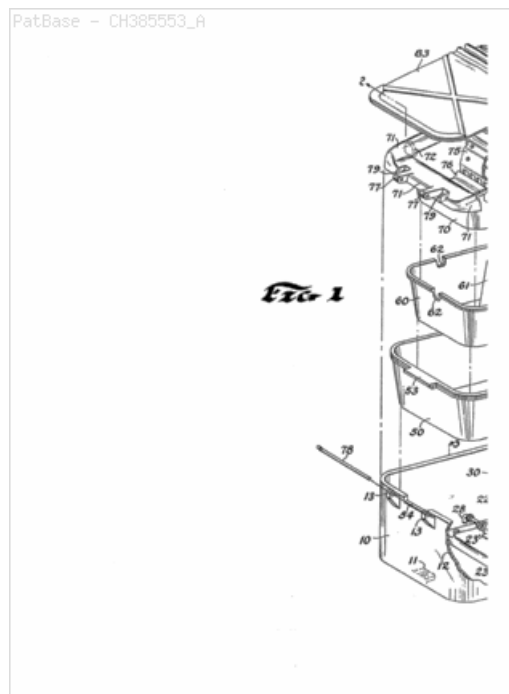
International (IPC 8-9): A01K7/02 A01K7/04 (Advanced/Invention);
A01K7/00 (Core/Invention)

International (IPC 1-7): A01K7/02

CPC: A01K7/025 A01K7/04

European: A01K7/02F A01K7/04

PatBase - CH385553_A



Family:

Publication number	Publication date	Application number	Application date
CH385553 A	19641215	CH19620004021	19620402

Priority:

CH19620004021 19620402

Probable Assignee:

NELSON CARROLL H

Assignee(s): (std):

NELSON CARROLL H

Inventor(s): (std):

CARROLL H NELSON

Inventor(s):

H NELSON CARROLL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CH385553 A	19641215	LSGT	+	granted / extensions (spc, cpc, pte)	
CH385553 A	19820402	PEXP		Calculated Patent Term Expiry	

Title: MOBILE SUPPORT, **ASSEMBLY** WITH A FIRST AND A SECOND MOBILE SUPPORT AND TERRAIN DEMARCATION

Abstract: A mobile support for supporting a wire-shaped terrain demarcation on an area of ground, having a plurality of segments rotatable about an axis. Each segment comprises a spoke having a free end, wherein at least one segment has a greater flexibility in an axial direction than in a direction tangential to the axial direction.

Classifications:

International (IPC 8-9): A01K3/00 (Advanced/Invention);

A01K3/00 (Core/Invention)

CPC: A01K3/005

European: A01K3/00C

US: 256/10

PatBase - US2010065801_AA

Patent Application Publication

Mar. 18, 2010

US 2010/0065801 A1

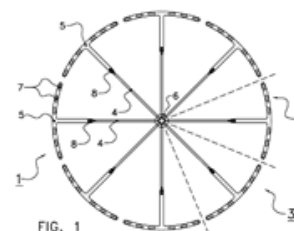


FIG. 1

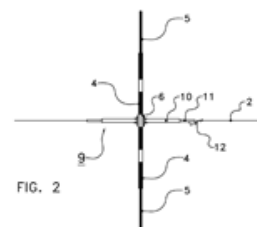


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AT481874 E	20101015	AT20080723855T	20080317
AU2008253801 AA	20081127	AU20080253801	20080317
AU2008253801 BB	20130905	AU20080253801	20080317
DE602008002753 D1	20101104	DE200860002753T	20080317
DK2152065 T3	20101115	DK20080723855T	20080317
EP2152065 A1	20100217	EP20080723855	20080317
EP2152065 B1	20100922	EP20080723855	20080317
NL1033879 C2	20081125	NL20071033879	20070523
NZ579668 A	20120330	NZ20080579668	20080317
US2010065801 AA	20100318	US20090622446	20091120
WO08143498 A1	20081127	WO2008NL00083	20080317

Priority:

NL20071033879 20070523

WO2008EP00083 20080317

WO2008NL00083 20080317

Probable Assignee: MAASLAND NV

Assignee(s): (std): MAASLAND NV ; VAN DEN BERG KAREL ; VLAAR IWAN YVES

Assignee(s): LELY PATENT NV ; MAASLAND N V

Inventor(s): (std): VAN DEN BERG KAREL ; VLAAR IWAN YVES ; VLAAR IWAN ; BERG KAREL VAN DEN

Inventor(s): KAREL VAN DEN BERG ; IWAN YVES VLAAR

Agent(s): PHILLIPS ORMONDE FITZPATRICK; JENNEN PETER LEONARDUS HENDRICUS; HOWREY LLP-EU; JENNEN P L H

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 SV SY SZ TD TG 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
AT481874 E	20101015	LSGT	+	granted / extensions (spc, cpc, pte)	
AT481874 E	20110315	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	

AT481874 E	20280317	PEXP		Calculated Patent Term Expiry	
AU2008253801 AA	20081127	LSPB	+	published / reissued	
AU2008253801 AA	20140116	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2008253801 AA	20171012	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2008253801 BB	20130905	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2008253801 BB	20280317	PEXP		Calculated Patent Term Expiry	
DK2152065 T3	20101115	LSGT	+	granted / extensions (spc, cpc, pte)	
DK2152065 T3	20280317	PEXP		Calculated Patent Term Expiry	
EP2152065 A1	20100217	LSPB	+	published / reissued	
EP2152065 A1	20100217	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20091223
EP2152065 B1	20100922	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2152065 B1	20100922	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2152065 B1	20100930	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2152065 B1	20101027	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2152065 B1	20101103	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3
EP2152065 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT 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 : 20100922
EP2152065 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI 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 : 20100922
EP2152065 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT 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 : 20100922
EP2152065 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO 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 : 20101222
EP2152065 B1	20110225	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100922
EP2152065 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HR 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 : 20100922
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EP2152065 B1	20110331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR 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 : 20101223
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EP2152065 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK 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 : 20100922
EP2152065 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT 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 : 20110124
EP2152065 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT 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 : 20100922
EP2152065 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE 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 : 20100922
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EP2152065 B1	20110531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS 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 : 20110122

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EP2152065 B1	20110729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES 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 : 20110102
EP2152065 B1	20110831	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20110623
EP2152065 B1	20111020	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602008002753 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20110623
EP2152065 B1	20111031	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 NON-PAYMENT OF DUE FEES LAPSED DATE : 20110331
EP2152065 B1	20111230	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT 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 : 20100922
EP2152065 B1	20121031	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
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EP2152065 B1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : TR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100922
EP2152065 B1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20101222
EP2152065 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100922
EP2152065 B1	20140430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20140325 YEAR OF FEE PAYMENT : 7
EP2152065 B1	20140430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20140327 YEAR OF FEE PAYMENT : 7
EP2152065 B1	20151026	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP EFFECTIVE DATE : 20150331
EP2152065 B1	20151130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150318
EP2152065 B1	20151201	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : SE REF LEGAL EVENT CODE : EUG
EP2152065 B1	20160328	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 9
EP2152065 B1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150331
EP2152065 B1	20160429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20160331 YEAR OF FEE PAYMENT : 9
EP2152065 B1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20160329 YEAR OF FEE PAYMENT : 9
EP2152065 B1	20160531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20160328 YEAR OF FEE PAYMENT : 9
EP2152065 B1	20160729	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20160331 YEAR OF FEE PAYMENT : 9
EP2152065 B1	20170428	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170326 YEAR OF FEE PAYMENT : 10
EP2152065 B1	20171003	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119

					REF DOCUMENT NUMBER : 602008002753 COUNTRY OF REF DOCUMENT : DE
EP2152065 B1	20171129	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20170317
EP2152065 B1	20171227	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2152065 B1	20171229	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20171130
EP2152065 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170331
EP2152065 B1	20180131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171003
EP2152065 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170317
EP2152065 B1	20180228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20170317
EP2152065 B1	20180430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20180326 YEAR OF FEE PAYMENT : 11
EP2152065 B1	20190430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20190128 YEAR OF FEE PAYMENT : 12
EP2152065 B1	20280317	PEXP		Calculated Patent Term Expiry	
NL1033879 C2	20081125	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1033879 C2	20111214	LSLE	-V1	LAPSED BECAUSE OF NON-PAYMENT OF THE ANNUAL FEE	EFFECTIVE DATE : 20111201
NL1033879 C2	20270523	PEXP		Calculated Patent Term Expiry	
NZ579668 A	20120330	LSPB	+	published / reissued	
NZ579668 A	20120727	LSGT	+PSEA	PATENT SEALED	
NZ579668 A	20150327	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 17 MAR 2016 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20150303
NZ579668 A	20160331	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 17 MAR 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20160301
NZ579668 A	20170331	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 17 MAR 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20170302
NZ579668 A	20180323	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 17 MAR 2019 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20180302

NZ579668 A	20190329	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 17 MAR 2020 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20190302
US2010065801 AA	20100318	LSPB	+	published / reissued	
US2010065801 AA	20091120	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MAASLAND N.V.,NETHERLANDS OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:VLAAR, IWAN YVES, MR.; VAN DEN BERG, KAREL, MR.; REEL/FRAME:023548/0079 EFFECTIVE DATE : 20090902
US2010065801 AA	20121009	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO08143498 A1	20081127	LSPB	+	published / reissued	
WO08143498 A1	20090903	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008723855 COUNTRY OF REF DOCUMENT : EP
WO08143498 A1	20090909	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008253801 COUNTRY OF REF DOCUMENT : AU
WO08143498 A1	20090915	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 579668 COUNTRY OF REF DOCUMENT : NZ
WO08143498 A1	20091001	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2008253801 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20080317 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO08143498 A1	20091124	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE

Title: Floor of cattle stall with transverse slots for drainage of liquid waste and chain-driven scraper to remove solid waste

Abstract: The floor (2) has narrow transverse slots (7) with drainage holes that are downwardly divergent to prevent blockage. The longitudinal channel holds a drive chain (6) for a scraper (5) to remove solid waste.

Classifications:

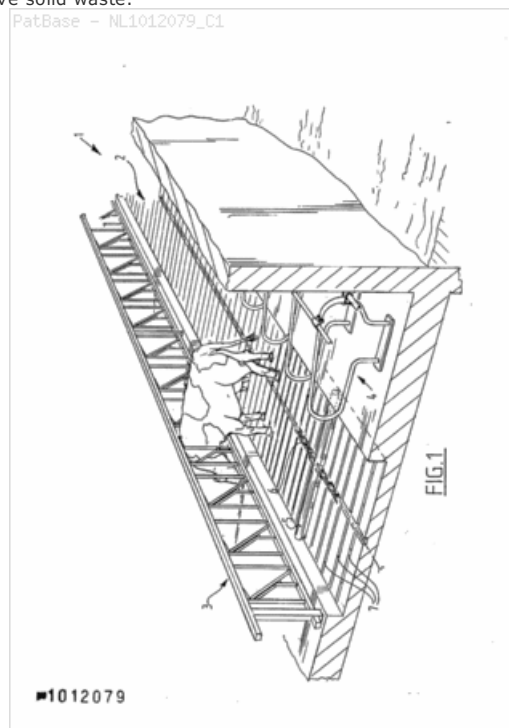
International (IPC 8-9): A01K1/015 (Advanced/Invention);

A01K1/015 (Core/Invention)

International (IPC 1-7): A01K1/00 A01K1/015

CPC: A01K1/0151

European: A01K1/015A



Family:

Publication number	Publication date	Application number	Application date
NL1012079 C1	20001120	NL19991012079	19990517

Priority:

NL19991012079 19990517

Probable Assignee: BOER STALINRICHTINGEN

Assignee(s): (std): BOER STALINRICHTINGEN

Assignee(s): DE BOER STALINRICHTINGEN B V

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
NL1012079 C1	20001120	LSGT	+	granted / extensions (spc, cpc, pte)	
NL1012079 C1	20050701	LSLE	-VD2	LAPSED DUE TO EXPIRATION OF THE TERM OF PROTECTION	EFFECTIVE DATE : 20050517
NL1012079 C1	20190517	PEXP		Calculated Patent Term Expiry	

Title: PFAHL FÜR DIE ERSTELLUNG EINES ELEKTRISCHEN WEIDEZAUNS MIT ELEKTROSEILEN Stake FOR THE CREATION OF AN **ELECTRIC** PASTURE **FENCE** WITH **ELECTRIC** CABLES (Machine translation)

Abstract: Source: DE9417210U1 [DE] (Claim 1) 1. Pfahl fuer die Erstellung eines elektrischen Weidezauns mit Elektroseilen, gekennzeichnet durch mehrere auf seiner Laenge angeordnete offene Halteringe (2) aus Isoliermaterial mit einem Spalt (7), der die Hindurchfuehrung eines Elektroseils (4) gestattet, und in den Halteringen (2) drehbar gelagerte offene Huelsen (3), deren hoffnung (8) in etwa dem Spalt (7) des Halterings (2) entspricht, derart, dass in der Einlegestellung der Spalt (7) und die oeffnung (8) zusammenfallen und in der Verriegelungsstellung nach Verdrehung der Huelse (3) diese so in dem Ring (2) gehalten wird, dass das Elektroseil (4) sicher in der Anordnung Ring/Huelse gehalten wird.

Machine translation: (Claim 1) 1 Pole mounted for the creation of an **electric** pasture **fence** with **electric** cables, characterized by multiple, arranged on its length open retaining rings (2) of insulating material with a gap (7), which permits the Hindurchfuehrung an **electric** cable (4), and the retaining rings (2) rotatable open sleeve (3), whose hopes (8) about the gap (7) of the retaining ring (2) corresponds, such that coincide in the insertion position of the gap (7) and the opening (8) and in the locked position by rotating the huelse (3) This is held in the ring (2), that is, the **electric** cable (4) is held securely in the arrangement of ring / sleeve.

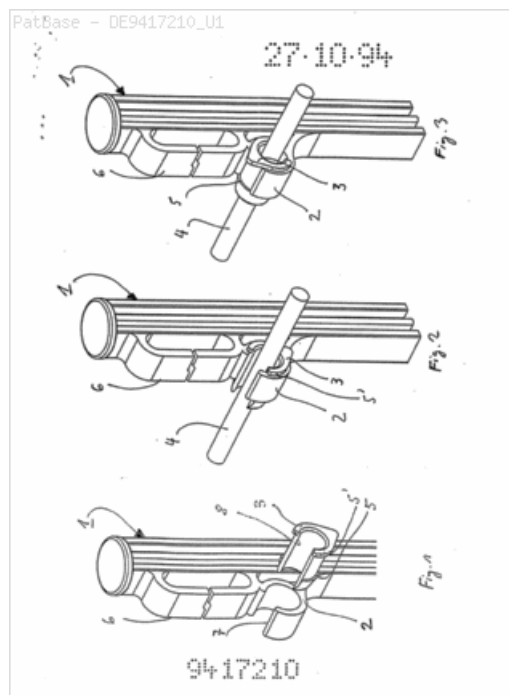
Classifications:

International (IPC 8-9): A01K3/00 (Advanced/Invention);
A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00 E04H17/00 H01B17/24

CPC: A01K3/005

European: A01K3/00C



Family:

Publication number	Publication date	Application number	Application date
DE9417210 U1	19950202	DE19940017210U	19941027

Priority:

DE19940017210U 19941027

Probable Assignee: HORIZONT GERAETEWERK

Assignee(s): (std): HORIZONT GERAETEWERK

Assignee(s): HORIZONT GERAETEWERK GMBH 34497 KORBACH DE

Legal status (INPADOC)

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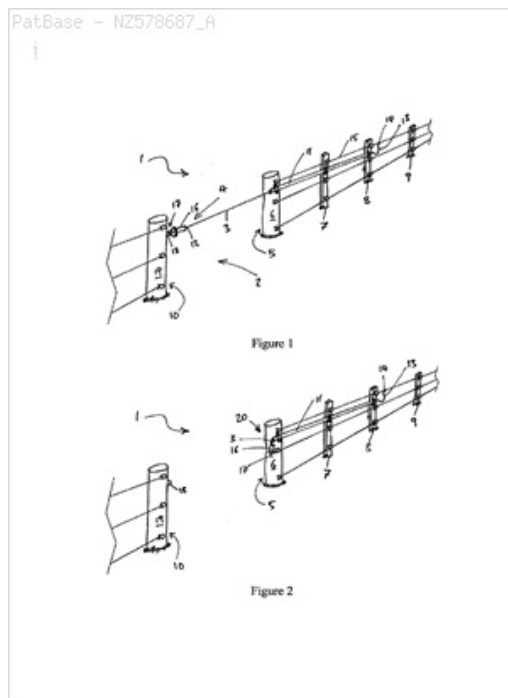
Patent	Date recorded	Event group	Code	Event	Details
DE9417210 U1	19950202	LSGT	+	granted / extensions (spc, cpc, pte)	
DE9417210 U1	20041027	PEXP		Calculated Patent Term Expiry	

Title: **Electric fence** retractable wire gate with guide support and constant tension

Abstract: A retractable electrified gate **assembly** (1) for a **fence**-line having a gateway therethrough including a gate (3) is disclosed. The retractable electrified gate **assembly** comprises a length of resilient material (LRM) connected at one end to a first side of the **fence**-line (8) and connected at the other end to a length of conducting material (LCM). The LCM is configured to at least span the width from the first side (5) of the gateway (2) to a second side (10) of said gateway (2) to obstruct the gateway; and the LCM includes a **fence** closure connector on at least one end thereof configured to fasten the LCM to the second side of the gateway. The first side of the gateway includes a guide support (11) which controls the retraction of the LCM and LRM by guiding the LCM and LRM during retraction thereof from the second side of the gateway to the first side of the gateway; and holds the connector off the ground when the LCM and LRM are in a retracted position on the first side of the gateway by preventing a portion of the LRM, LCM and/or **fence** closure connector passing therethrough, thereby maintaining the LRM and LCM under sufficient tension to support the weight of the **fence** closure connector. The LRM is substantially parallel with the length of **fence**-line to which it is attached; and the connection between the LRM and the LCM is configured to apply at least a portion of any longitudinal tension with the LRM to the LCM. A kit of parts for an electrified gate **assembly** as described above includes a length of conducting material (LCM) connected to a length of resilient material (LRM); a **fence** closure connector in the form of an insulated handle to protect the gate user from being shocked by the LCM when fastening the LCM to the second side of the gateway, or freeing the LCM therefrom; a guide-support configured to control the retraction of the LCM and LRM; and hold the insulated handle off the ground when the LCM and LRM are in a retracted position; an attachment device for fixing one end of the LRM capable of allowing the LRM to be maintained under tension and an electrical attachment device for connecting the LCM at the fixed end thereof, or alternatively the attachment device to a live conductor of an associated **electric fence**. The connection of the LRM and the LCM is such as to be capable of in use allowing the LRM to be maintained under tension even when the LCM is in the fully retracted position.

Classifications:

International (IPC 8-9): A01K3/00 E06B11/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
NZ578687 A	20120224	NZ20100578687	20100727

Priority:

NZ20100578687 20100727

Probable Assignee:

ALAN KEITH SEARLE

Assignee(s): (std):

ALAN KEITH SEARLE

Inventor(s): (std):

SEARLE ALAN KEITH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
NZ578687 A	20120224	LSPB	+	published / reissued	
NZ578687 A	20120629	LSGT	+PSEA	PATENT SEALED	
NZ578687 A	20140725	LSFE	+RENW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 27 JUL 2017 BY JAMES + WELLS EFFECTIVE DATE : 20140717
NZ578687 A	20180223	LSLE	-LAPS	PATENT LAPSED	

Title: REEL FOR **FENCE** WIRE, ETC.

Abstract: A winding reel support and drive apparatus disposed on a trailer type frame for the placement and retrieval of **fence** wire and the like. Powered drive apparatus rotates the reel at selected or regulated speeds with a brake system being provided for further control of said reel. Level wind apparatus is used for distributing wire across the reel. Individual reels are removable, and additional reels may be selectively mounted on a drive and support axle for use.

Classifications:

International (IPC 8-9): A01K3/00 B65H54/28

E04H17/26 (Advanced/Invention);

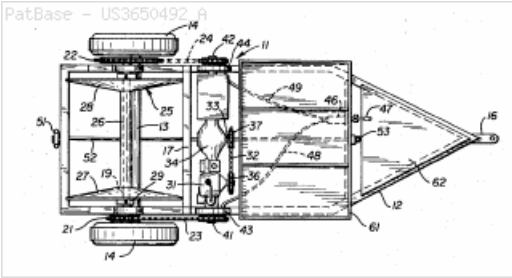
A01K3/00 B65H54/28 E04H17/26 (Core/Invention)

International (IPC 1-7): B65H75/40

CPC: A01K3/00 B65H75/441 E04H17/266

European: A01K3/00 B65H75/44B2C E04H17/26B3

US: 242/390 242/396.9 242/397.4 242/403 242/86.7 242/86.8



Family:

Publication number	Publication date	Application number	Application date
US3650492 A	19720321	US19700016753	19700305

Priority:

US19700016753 19700305

Probable Assignee:

LINLY R STUM

Assignee(s): (std):

LINLY R STUM

Inventor(s): (std):

STUM LINLY R

Inventor(s):

LINLY R STUM

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3650492 A	19720321	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: **ELECTRIC** TAPE **FENCING** CONNECTOR

Abstract: The present invention concerns a component of an **electric** tape **fence** installation and/or repair system for joining lengths of tape which comprises: a connector body (26) comprising a pair of clamp elements (29, 35) movable relative to each other to enable an end of a length of **electric fencing** tape to be passed therebetween and the tape to then be clamped flat therebetween and incorporating means (30, 31) guiding the tape into the clamp in use and means (35) to facilitate electrical continuity between a first length of **electric fencing** tape clamped in the connector body and a second length of **electric fencing** tape clamped in the connector body. Each tape is trapped against the floor (35) of the connector body by a pivotally mounted clamping element (28, 29).

Classifications:

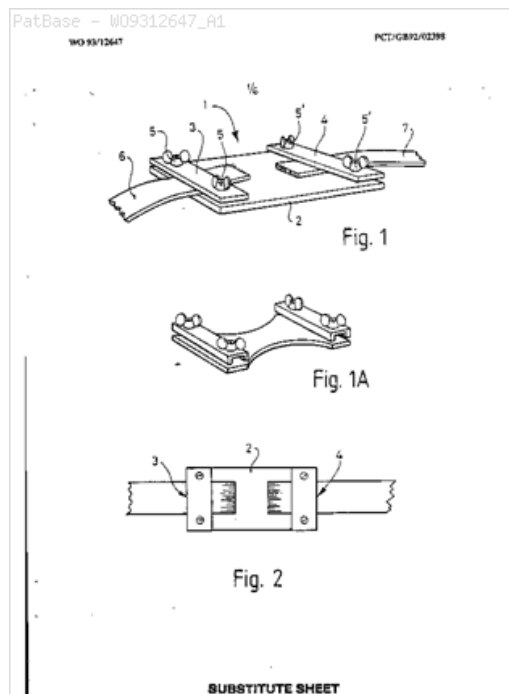
International (IPC 8-9): A01K3/00 (Advanced/Invention);

A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00 E04H17/04 E04H17/08 H01B17/14

CPC: A01K3/005

European: A01K3/00C



Family:

Publication number	Publication date	Application number	Application date
AU199331696 A1	19930728	AU19930031696	19921223
EP0619703 A1	19941019	EP19930900364	19921223
GB2263023 A1	19930707	GB19920026889	19921223
GB2263023 B2	19950419	GB19920026889	19921223
GB9127536 A0	19920219	GB19910027536	19911231
GB9226889 A0	19930217	GB19920026889	19921223
WO9312647 A1	19930708	WO1992GB02398	19921223

Priority:

GB19910027536 19911231 WO1992GB02398 19921223

Probable Assignee: KNOX PATRICK R W

Assignee(s): (std): KNOX PATRICK R W ; KNOX PATRICK ROBERT WILLIAM

Assignee(s): PATRICK ROBERT WILLIAM KNOX

Inventor(s): (std): KNOX PATRICK ROBERT WILLIAM

Inventor(s): PATRICK ROBERT WILLIAM KNOX

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR LK LU MC MG ML MN MR MW NL NO NZ PL PT RO RU SD SE SN TD TG US

Legal status (INPADOC)

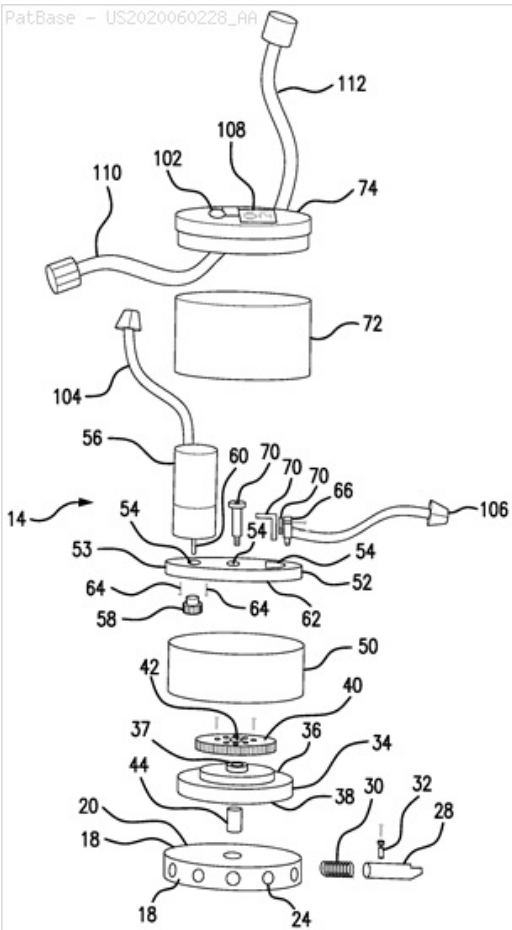
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Patent	Date recorded	Event group	Code	Event	Details
AU199331696 A1	19930728	LSPB	+	published / reissued	
EP0619703 A1	19941019	LSPB	+	published / reissued	
EP0619703 A1	19941019	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19940722
EP0619703 A1	19950517	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19950329

EP0619703 A1	19971217	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19970621
GB2263023 A1	19930707	LSPB	+	published / reissued	
GB2263023 B2	19950419	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2263023 B2	20040811	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20031223
GB2263023 B2	20121223	PEXP		Calculated Patent Term Expiry	
WO9312647 A1	19930708	LSPB	+	published / reissued	
WO9312647 A1	19940615	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 1994 244960 COUNTRY OF REF DOCUMENT : US DATE OF REF DOCUMENT : 19940615 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO9312647 A1	19940722	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1993900364 COUNTRY OF REF DOCUMENT : EP
WO9312647 A1	19941019	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993900364 COUNTRY OF REF DOCUMENT : EP
WO9312647 A1	19941027	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO9312647 A1	19941031	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : CA
WO9312647 A1	19970621	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1993900364 COUNTRY OF REF DOCUMENT : EP

Title: DROP FEEDER

Abstract: A drop feeder for feeding various types of animals.
Classifications:
International (IPC 8-9): A01K5/02 (Advanced/Invention)
CPC: A01K5/0225



Family:

Publication number	Publication date	Application number	Application date
US2020060228 AA	20200227	US20180111392	20180824

Priority:

US20180111392 20180824

Probable Assignee: POMA DAVID V
Assignee(s): (std): POMA DAVID V
Inventor(s): (std): POMA DAVID V

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2020060228 AA	20200227	LSPB	+	published / reissued	
US2020060228 AA	20200414	LSSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	

Title: AUTOMATIC HORSE WALKER

Abstract: An animal walking apparatus having a plurality of rails where each rail is mounted at one end to a rotatable drive means and having a gate at its other end. An **electric** current is attached to each rail and its respective gate to provide stimulus to provoke an animal to move forward.

Classifications:

International (IPC 8-9): A01K15/02 (Advanced/Invention);

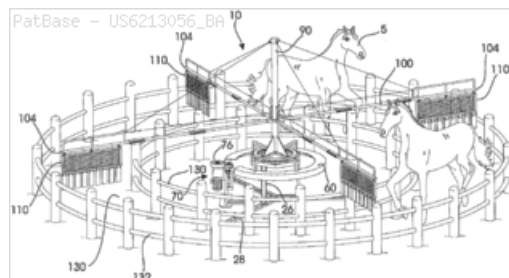
A01K15/00 (Core/Invention)

International (IPC 1-7): A01K1/500 A01K15/00

CPC: A01K15/027 A01K15/029

European: A01K15/02D

US: 119/701 119/704 119/721



Family:

Publication number	Publication date	Application number	Application date
US6213056 BA	20010410	US19990337153	19990621

Priority:

US19990337153 19990621

Probable Assignee: BERGMANN MARTIN

Assignee(s): BERGMANN MARTIN ; HUNNIKENS SEBASTIAN

Inventor(s): (std): HUNNIKENS SEBASTIAN ; BERGMANN MARTIN

Inventor(s): SEBASTIAN HUNNIKENS ; MARTIN BERGMANN

Agent(s): BRENT A CAPEHART; FELLERS SNIDER BLANKENSHIP BAILEY AND TIPPENS

Legal status (INPADOC)

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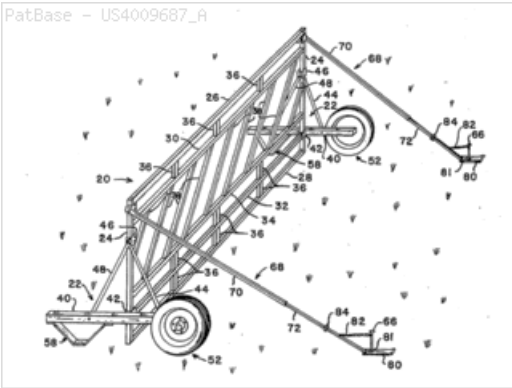
Patent	Date recorded	Event group	Code	Event	Details
US6213056 BA	20010410	LSGT	+	granted / extensions (spc, cpc, pte)	
US6213056 BA	20050411	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6213056 BA	20050512	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6213056 BA	20050512	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6213056 BA	20050607	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20050410
US6213056 BA	20190621	PEXP		Calculated Patent Term Expiry	

Title: Roughage feeder unit

Abstract: A roughage feeder unit for cattle or livestock comprises an upright gate assembly mounted on supports at opposite ends of the assembly and provided with ground engaging wheels and skids to support the gate assembly for movement over the ground. The unit includes a device coupled to the gate assembly for anchoring the gate assembly to the ground and adapted to restrict the gate assembly to movement over a predetermined distance relative to the ground. A preferred embodiment of the anchoring device comprises a telescoping brace adapted to be secured to the ground by a stake and provided with a stop to limit the movement of the gate assembly relative to the stake.

Classifications:

International (IPC 8-9): A01K1/10 A01K5/00 (Advanced/Invention);
A01K1/00 A01K5/00 (Core/Invention)
International (IPC 1-7): A01K5/00
CPC: A01K1/105 A01K5/00
European: A01K1/10A A01K5/00
US: 119/51.01 119/51R 119/60



Family:

Publication number	Publication date	Application number	Application date
US4009687 A	19770301	US19750610932	19750908

Priority:

US19750610932 19750908

Probable Assignee: KORTHALS JOHN G
Assignee(s): (std): KORTHALS JOHN G
Inventor(s): (std): KORTHALS JOHN G

Legal status (INPADOC)

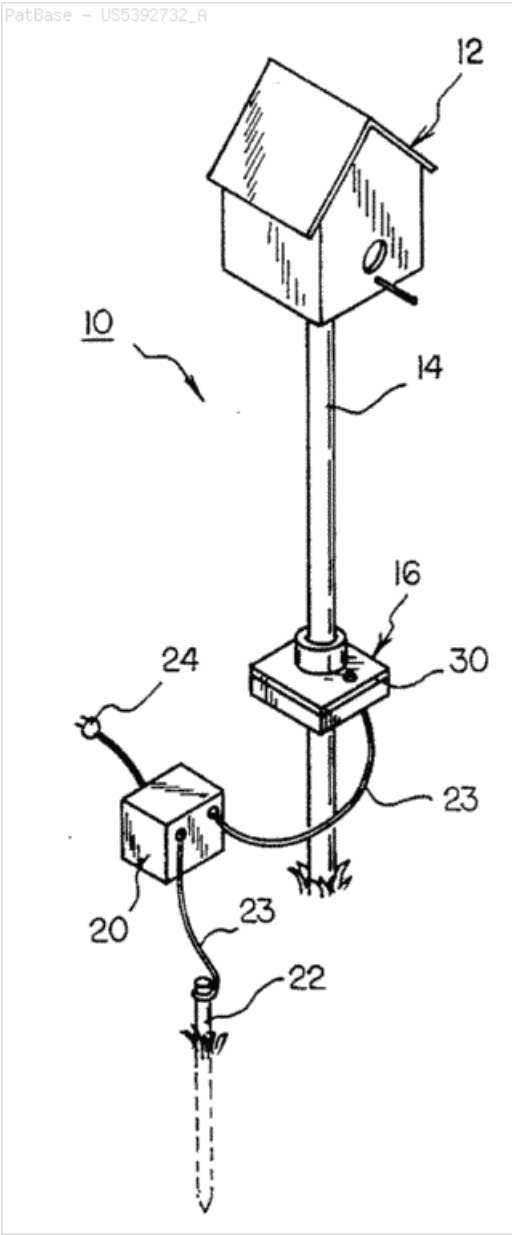
[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US4009687 A	19770301	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Squirrel proof bird feeder

Abstract: A squirrel proof bird feeder including an electrical deterrent to deny squirrels access to a bird feeding station. The squirrel proof bird feeder comprises a bird feeding station, a conductive support pole attached to the bird feeder at one end and embedded within the ground at an opposing end, and a conducting plate affixed to, but electrically isolated from, the conductive support pole, and a regulating power supply providing electrical shock stimuli to animals contacting the conductive plate member and any earth ground, and more particularly the conductive support pole. In an alternate embodiment a plurality of isolated conductive plates are employed to provide a range of heights for the purpose of shocking a corresponding range of animal sizes. Yet another alternate embodiment employs a sensor which detects the imminent approach of an animal and activates the electrical p[ower supply deterrent only when animals are present.

Classifications:
International (IPC 8-9): A01K39/01 (Advanced/Invention);
A01K39/00 (Core/Invention)
International (IPC 1-7): A01K5/00
CPC: A01K39/0113
European: A01K39/01C
US: 119/52.3 119/523 119/57.9 119/579



Family:

Publication number	Publication date	Application number	Application date
US5392732 A	19950228	US19940192351	19940207

Priority:
US19940192351 19940207

Probable Assignee: FRY GEORGE E
Assignee(s): (std): FRY GEORGE E
Inventor(s): (std): FRY GEORGE E

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US5392732 A	19950228	LSGT	+	granted / extensions (spc, cpc, pte)	
US5392732 A	19950216	LSGT	PAT1	Patented Case	
US5392732 A	19990228	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5392732 A	19990511	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19990228
US5392732 A	20180126	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5392732 A	20180126	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5392732 A	20140207	PEXP		Calculated Patent Term Expiry	

Title: DUAL LONGITUDINAL-WELD STEP-IN ANCHOR POST

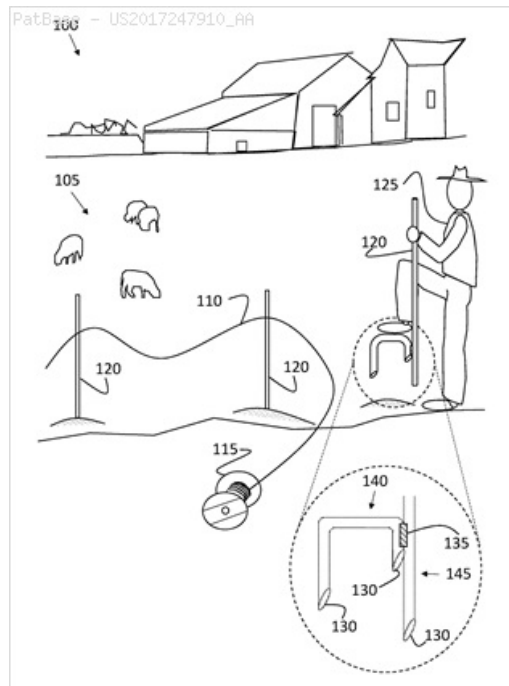
Abstract: Apparatus and associated methods relate to a Dual Longitudinal-Weld Step-In Anchor Post (DLWSAP) having a mast or body member extending along an axis, and weld fillets to an anchor member, the weld fillets located on both sides of a mating line of the body and anchor members, the anchor member bent in two places forming two segments parallel, and one segment orthogonal to the body member, the body and anchor members extending toward the ground, chamfered for ground penetration. In an illustrative example, a farmer wishing to reconfigure the **fencing** in his stockyard due to changes of his livestock populations, may insert a number of DLWSAPs along a perimeter of a new **fencing** enclosure, by setting the DLWSAPs in place, and stepping on the integrated anchor sections. The farmer may then, for example, hang mesh **fencing** on the DLWSAPs, to quickly create the new **fencing** enclosure.

Classifications:

International (IPC 8-9): A01K3/00 E04H12/22 E04H17/08 E04H17/22 (Advanced/Invention)

CPC: E04H17/08 E04H17/22 E04H12/2215 A01K3/00

US: 1/1 256/65.14



Family:

Publication number	Publication date	Application number	Application date
US2017247910 AA	20170831	US20170442369	20170224
US10329793 BB	20190625	US20170442369	20170224

Priority:

US20160389387P 20160225 US20170442369 20170224

Probable Assignee: NELSON TERRY ALAN

Assignee(s): (std): NELSON TERRY ALAN

Inventor(s): (std): NELSON TERRY ALAN

Agent(s): THOMPSON CRAIGE; THOMPSON PATENT LAW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US10329793 BB	20190625	LSGT	+	granted / extensions (spc, cpc, pte)	
US10329793 BB	20371214	PEXP		Calculated Patent Term Expiry (PTA 293 days)	
US2017247910 AA	20170831	LSPB	+	published / reissued	
US2017247910 AA	20190207	LSSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2017247910 AA	20190510	LSFE	+PPV1	Publications -- Issue Fee Payment Verified	
US2017247910 AA	20190605	LSGT	PAT1	Patented Case	
US2017247910 AA	20190605	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

Title: SYSTEM AND METHOD FOR REAL-TIME IMAGING OF BODY COMPOSITION TRAITS OF FOOD ANIMALS

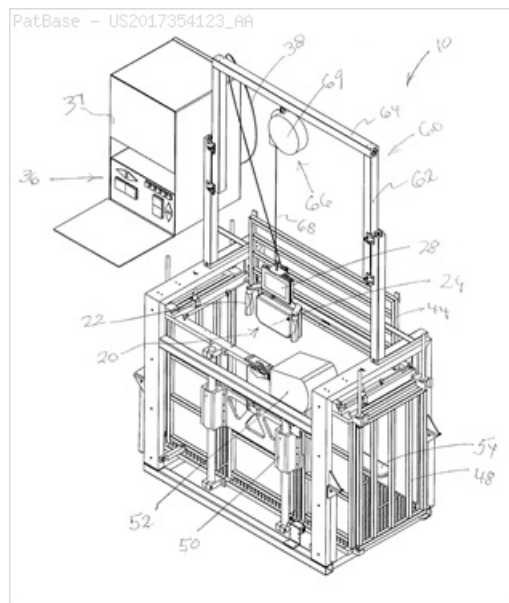
Abstract: A system and method for scanning a pig (or other food animal) to determine body composition and quality data in real time while the pig (or food animal) is suspended in mid-air by a lift apron in electronic communication with an ultrasound console and computer processor and configured to collect and process "target images" from the pig (or food animal) when a thumb switch activates the processor. The ultrasound probe is vertically displaced from and vertically adjustable relative to the framework so that the ultrasound probe is selectively positioned in relative space. With reference to target images, a processor calculates in real time a quantitative measurement indicative of backfat depth, muscle depth, and intramuscular fat for the pig (or food animal) being scanned.

Classifications:

International (IPC 8-9): A01K1/06 A01K29/00 A61B5/00 A61B8/00 A61B8/08 (Advanced/Invention)

CPC: A01K1/0613 A01K29/00 A61B5/4872 A61B6/508 A61B8/0858 A61B8/40 A61B8/4461 A61B8/462 A61B8/5223 A61B2503/40 A61B8/08 A61B8/4209 A61B8/4483 A61B8/461 G16H50/30

US: 1/1 119/728



Family:

Publication number	Publication date	Application number	Application date
US2017354123 AA	20171214	US20170595165	20170515

Priority:

US20160349885P 20160614 US20170595165 20170515

Probable Assignee: AMIN VIREN R

Assignee(s): (std): AMIN VIREN R ; WILSON DOYLE E

Inventor(s): (std): WILSON DOYLE E ; AMIN VIREN R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2017354123 AA	20171214	LSPB	+	published / reissued	
US2017354123 AA	20181012	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

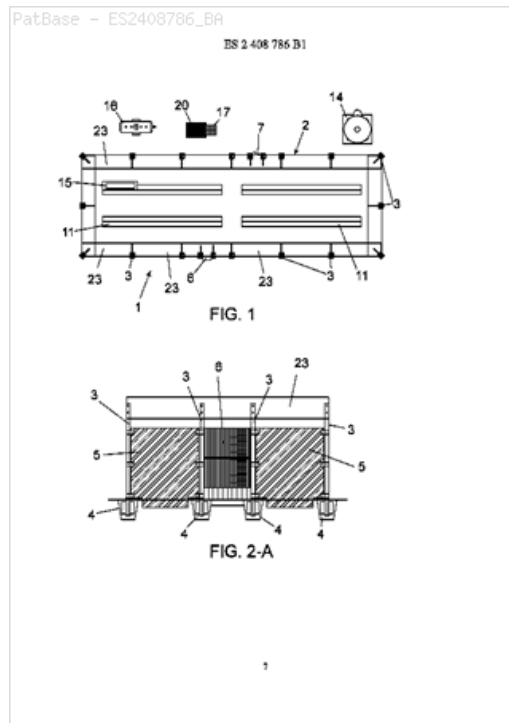
Title: RECINTO AUTOMATIZADO PARA RETENCION, CEBADO Y CAPTURA DE GANADO EN LIBERTAD.

Abstract: Source: ES2408786B [ES] Recinto automatizado para retencion, cebado y captura de ganado en libertad, que comprende una cerca (2) con compuerta (6) de apertura automatizada para entrada y salida de los animales, y puerta convencional (7) para personal, con comederos (11) vinculados a un circuito automatizado de sinfines que aporta pienso desde un silo (14). Tanto el sistema de apertura de la compuerta (6) como el suministro de pienso a los comederos (11), estan controlados mediante un automata programable (17) que ademas del accionamiento de los motores (12 y 13) gestiona un sensor (18) fotoelectrico y una bocina (19) de aviso. La alimentacion electrica de motores (12 y 13) automata programable (17) sensor y bocina, se realiza mediante energia electrica producida por paneles solares (20) fotovoltaicos conectados a un controlador fotovoltaico (21) y a baterias de acumulacion (22).

Classifications:

International (IPC 8-9): A01K3/00 E04H17/00 (Advanced/Invention)

CPC: A01K3/00 E04H17/00



Family:

Publication number	Publication date	Application number	Application date
ES2408786 AA	20130621	ES20110031720	20111025
ES2408786 BA	20140423	ES20110031720	20111025

Priority:

ES20110031720 20111025

Probable Assignee: SOUTOS GALEGOS S L

Assignee(s): (std): SOUTOS GALEGOS S L

Assignee(s): SOUTOS GALEGOS SL

Inventor(s): (std): CARRIL GONZALEZ BARROS JOSE ANTONIO

Inventor(s): JOSE ANTONIO CARRIL GONZALEZ BARROS

Agent(s): DOMINGUEZ JOSEFA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES2408786 AA	20130621	LSPB	+	published / reissued	
ES2408786 BA	20140423	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2408786 BA	20140423	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2408786 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : B1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140423
ES2408786 BA	20311025	PEXP		Calculated Patent Term Expiry	

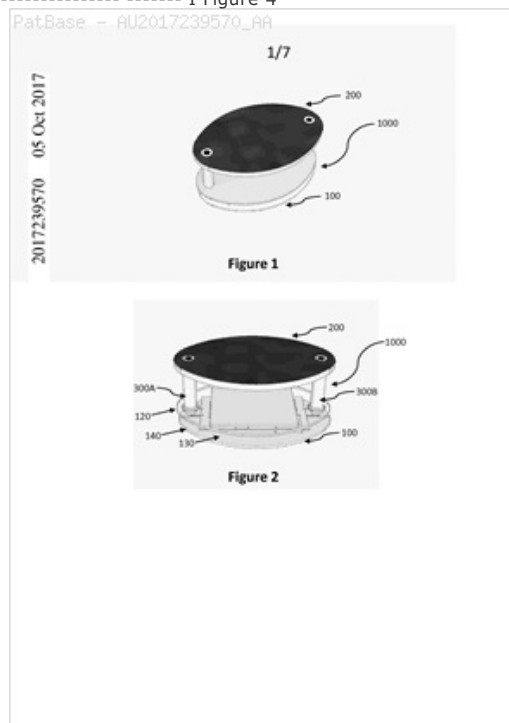
Title: APPARATUS AND SYSTEM FOR IDENTIFICATION, MONITORING AND CONTROL OF ANIMALS

Abstract: Abstract A wearable animal tracking and controlling apparatus (1000) for monitoring and controlling an animal wearing the apparatus, the apparatus comprising: a position detector (150) for determining position of the animal wearing said apparatus; a stimulator (160) for selectively applying stimulus to the animal; an identifying module (170) comprising information relating to the animal wearing said apparatus; a processor (180) in communication with the position detector, stimulator and said identifying module; the processor being provided for operating the stimulator (160) on the basis of the position of the animal wearing said apparatus, as determined by the position detector (150). The wearable apparatus (1000) may also include at least one sensor for monitoring the wearing animal's health or well-being, preferably including a temperature sensor. (Fig. 3) 220 200 1000 -300B 330 -310 Figure 3 ---- 110 -- ---- -- Solar Transmitter/ Receiver 195 Collector Receiver Power Source Processor _ sensor 330 RFID 170 ---- Accelerometer Stimulator 160 Memory 20 L----- I Figure 4

Classifications:

International (IPC 8-9): A01K15/02 A01K27/00

A01K29/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
AU2017239570 AA	20180426	AU20170239570	20171005

Priority:

AU20160904118 20161011

Probable Assignee:

CERES TAG PTY LTD

Assignee(s): (std):

CERES TAG PTY LTD

Inventor(s): (std):

SMITH DAVID IAN

Agent(s):

MICHAEL BUCK IP

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AU2017239570 AA	20180426	LSPB	+	published / reissued	

Title: DOG LAVATORY

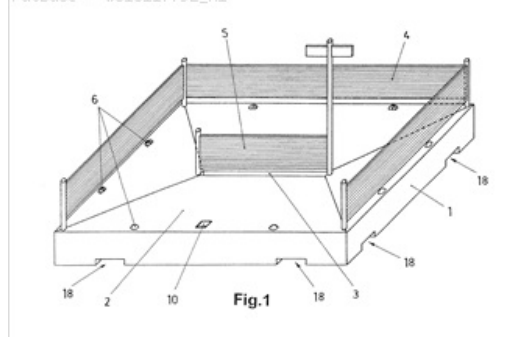
Abstract: Dog lavatory formed by a platform (1) that defines an upper surface (2) surrounded by an enclosure (4) and with a central drainage groove (3), said platform (1) being hollow underneath, where a functional unit is accommodated which constitutes, in combination, a system for spraying water through sprinkler devices (6), for cleaning the upper surface (2), and a system for collecting the dirty water from cleaning, which is evacuated via the central groove (3).

Classifications:

International (IPC 8-9): A01K1/01 A01K1/02 (Advanced/Invention)

CPC: A01K1/011

PatBase - WO13117792_A1



Family:

Publication number	Publication date	Application number	Application date
ES2422659 AA	20130912	ES20120000118	20120210
ES2422659 BA	20140513	ES20120000118	20120210
WO13117792 A1	20130815	WO2013ES70071	20130208

Priority:

ES20120000118 20120210

Probable Assignee: CANTARERO BLASCO MIGUEL ANGEL

Assignee(s): (std): CANTARERO BLASCO MAURICIO ; CANTARERO BLASCO MIGUEL ANGEL

Assignee(s): MAURICIO CANTARERO BLASCO ; MIGUEL ANGEL CANTARERO BLASCO

Inventor(s): (std): CANTARERO BLASCO MAURICIO

Inventor(s): MAURICIO CANTARERO BLASCO

Agent(s): VEIGA MIKEL; VEIGA SERRANO MIKEL

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 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 MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW 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
ES2422659 AA	20130912	LSPB	+	published / reissued	
ES2422659 BA	20140513	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2422659 BA	20140513	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 2422659 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : B1 DESIGNATED STATE(S) : EFFECTIVE DATE : 20140513
ES2422659 BA	20181015	LSLE	-FD2A	ANNOUNCEMENT OF LAPSE IN SPAIN	EFFECTIVE DATE : 20181015
ES2422659 BA	20320210	PEXP		Calculated Patent Term Expiry	
WO13117792 A1	20130815	LSPB	+	published / reissued	
WO13117792 A1	20140811	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE	REF COUNTRY CODE : DE
WO13117792 A1	20150304	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 13746874 COUNTRY OF REF DOCUMENT : EP

KIND CODE OF REF
DOCUMENT : A1
DESIGNATED STATE(S)
:

Title: AUTOMATIC TRAPPING SYSTEM

Abstract: Trapping apparatus for livestock comprising a first barrier partially defining an enclosed area and having an entrance for admitting livestock into the enclosed area, a rotatable gate extending between the open ends of the first barrier and rotatable about a vertical support to sweep the enclosed area, a second barrier extending between one end of the first barrier and the gate support, and a detector for detecting livestock located within the enclosed area and arranged to initiate rotation of the gate whereby livestock located in the enclosed area are forced through an opening between the gate support and the other end of the first barrier.

Classifications:

International (IPC 8-9): A01K1/06 A01K3/00

A01M23/10 (Advanced/Invention);

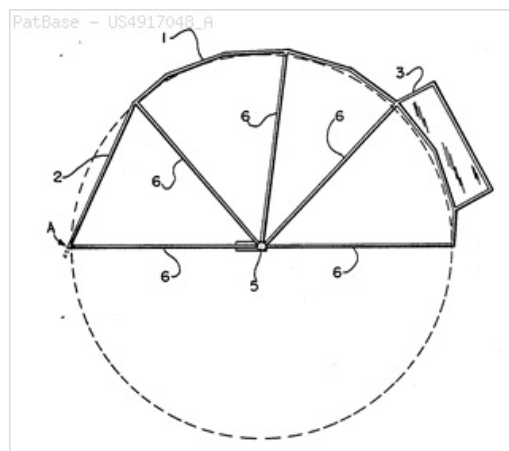
A01K1/00 A01K3/00 A01M23/00 (Core/Invention)

International (IPC 1-7): A01K3/00 A01M23/02 A01M23/08 A01M23/10

CPC: Y10S119/906 A01K1/0613 A01K3/00

European: A01K1/06F A01K3/00

US: 119/155 119/20 119/502 119/840 119/906

**Family:**

Publication number	Publication date	Application number	Application date
AU198821845 A1	19890316	AU19880021845	19880905
AU198821845 A1	19890316	AU19880021845	19880915
AU601074 B2	19900830	AU19880021845	19880915
AU601074 B2	19900830	AU19880021845	19880905
NZ226193 A	19900226	NZ19880226193	19880915
US4917048 A	19900417	US19880244143	19880914

Priority:

AU1987PI04355 19870915 AU19880021845 19880915

Probable Assignee: JOHN BEATTIE AND SON

Assignee(s): (std): BEATTIE JOHN ; BLANCH DON ; MARRIOTT PETER JAMES ; MARRIOTT PETER J ; JOHN BEATTIE AND SON ; JOHN BEATTIE

Assignee(s): BEATTIE ELIZABETH OLIVE

Inventor(s): (std): MARRIOTT PETER JAMES ; BLANCH DON ; BEATTIE JOHN ; BEATTIE ELIZABETH OLIVE ; MARRIOTT PETER J

Inventor(s): JOHN BEATTIE ; ELIZABETH OLIVE BEATTIE ; DON BLANCH ; PETER JAMES MARRIOTT

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU198821845 A1	19890316	LSPB	+	published / reissued	
AU198821845 A1	19890316	LSPB	+	published / reissued	
AU601074 B2	19900830	LSGT	+	granted / extensions (spc, cpc, pte)	
AU601074 B2	19900830	LSGT	+	granted / extensions (spc, cpc, pte)	
AU601074 B2	20080915	PEXP		Calculated Patent Term Expiry	
AU601074 B2	20080915	PEXP		Calculated Patent Term Expiry	
NZ226193 A	19900226	LSPB	+	published / reissued	
US4917048 A	19900417	LSGT	+	granted / extensions (spc, cpc, pte)	
US4917048 A	19900213	LSGT	PAT1	Patented Case	
US4917048 A	19931018	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US4917048 A	19980419	LSLE	-LAPS	LAPSE FOR FAILURE TO	

				PAY MAINTENANCE FEES	
US4917048 A	19980630	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19980422
US4917048 A	20180129	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US4917048 A	20180129	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US4917048 A	20080914	PEXP		Calculated Patent Term Expiry	

Title: IMPROVEMENTS IN THE CONTROL OF ANIMALS WITH ELECTROCUTION AND BEHAVIOUR MODIFICATION UNDER **ELECTRIC** FIELDS

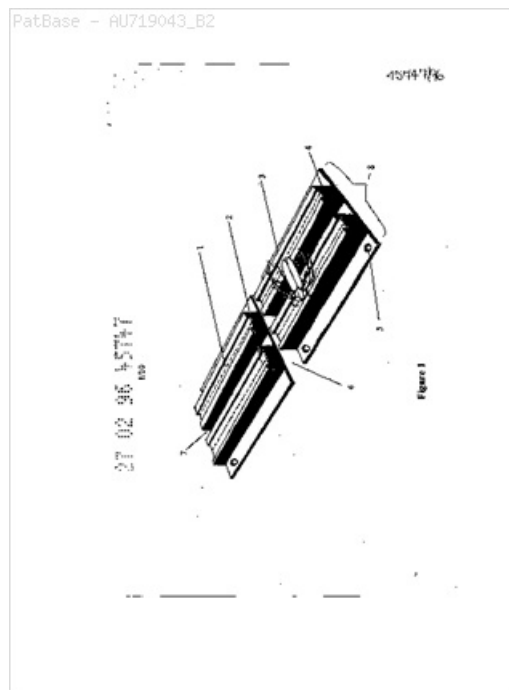
Abstract: An electrical device for the control of animals includes orientations of live and earth electrodes in a plurality of planes: stepped and overlaid electrodes facing the same direction; broken plane: checkerboard; structures whose electrodes face each other: prismatic, hemicylindrical and cylindrical with central rod; including encasement of electrode edges for close separations of electrodes and the use of insulation channelling and hygroscopic surfaces for wet applications. The arrangement of the invention is such that when an animal either comes into contact with the electrodes of opposite charge simultaneously or enters within the effective electrical field strength created by sa' electrodes, their nervous system is disrupted and consequently their pest influences are diminished. Ii I 9 9 9ss 9ss. 9 91 ,1i s e e ss1

Classifications:

International (IPC 8-9): A01K13/00 A01K3/00 A01M1/22 A01M19/00 A01M23/38 A01M29/00 (Advanced/Invention); A01K13/00 A01K3/00 A01M1/00 A01M19/00 A01M23/00 A01M29/00 (Core/Invention)

International (IPC 1-7): A01K13/00 A01K3/00 A01M1/22 A01M19/00 A01M23/38 A01M29/00

CPC: A01M1/223 A01M29/24 A01M29/28



Family:

Publication number	Publication date	Application number	Application date
AU136595 A0	19950316	AU1995PN01365	19950227
AU199645747 A1	19960905	AU19960045747	19960227
AU200016357 A1	20000420	AU20000016357	20000211
AU200016357 A5	20000420	AU20000016357D	20000211
AU336395 A0	19950629	AU1995PN03363	19950605
AU719043 B2	20000504	AU19960045747	19960227

Priority:

AU1995PN01365 19950227 AU1995PN03363 19950605 AU19960045747 19960227
AU20000016357 20000211

Probable Assignee: BROCKWELL P N

Assignee(s): (std): BROCKWELL P N ; BROCKWELL PAUL NIGEL ; PAUL NIGEL BROCKWELL

Assignee(s): BROCKWELL PN

Inventor(s): (std): BROCKWELL PAUL NIGEL

Inventor(s): PAUL NIGEL BROCKWELL

Agent(s): PAUL NIGEL BROCKWELL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199645747 A1	19960905	LSPB	+	published / reissued	
AU200016357 A1	20000420	LSPB	+	published / reissued	
AU200016357 A5	20010927	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
AU719043 B2	20000504	LSGT	+	granted / extensions (spc, cpc, pte)	
AU719043 B2	20000831	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	

AU719043 B2	20030925	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED
AU719043 B2	20160227	PEXP		Calculated Patent Term Expiry

Title: ANIMAL CONTROL SYSTEM

Abstract: An animal control system, including at least one transducer **assembly** intimately associated with an animal, and at least one control unit, wherein the control unit contains at least one **assembly** that includes on-board data, and the control unit is configured to receive data from the transducer **assembly**, and assess the received data with respect to the on-board data, and formulate and transmit a command to an appropriate transducer **assembly**; the system wherein the control unit is functionally separated from both actuation of the command and from the transducer **assembly** or **assemblies**.

Classifications:

International (IPC 8-9): A01K11/00 A01K15/00 A01K15/02 A01K29/00 A61D17/00 (Advanced/Invention);

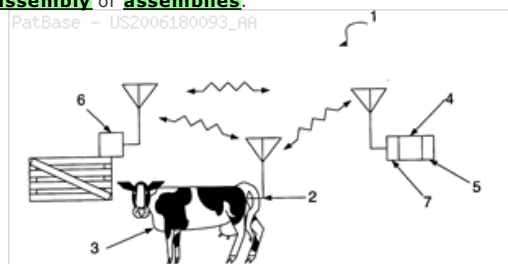
A01K11/00 A01K15/00 A01K29/00 A61D17/00 (Core/Invention)

International (IPC 1-7): A01K1/00 A01K1/12 A01K11/00 A01K15/04 A01K29/00 A01K5/02 A61D7/00

CPC: A01K11/008 A61D17/002

European: A01K11/00C A01K11/00C2 A61D17/00H

US: 119/720 119/858 119/858S



Family:

Publication number	Publication date	Application number	Application date
AU2004208641 AA	20040812	AU20040208641	20040130
AU2004208641 BB	20101216	AU20040208641	20040130
NZ523948 A	20060831	NZ20030523948	20030130
US2006180093 AA	20060817	US20040543616	20040130
US2010206245 AA	20100819	US20100772338	20100503
WO04066720 A1	20040812	WO2004NZ00015	20040130
WO04066720 B1	20040916	WO2004NZ00015	20040130

Priority:

NZ20030523948 20030130 US20040543616 20040130 WO2004NZ00015 20040130
 US20060543616 20060217 US20100772338 20100503

Probable Assignee: SENSORTEC LTD

Assignee(s): (std): CLAYCOMB RODNEY WAYNE ; CROSS PETER STEPHEN ; LELY PATENT NV ; SENSORTEC LIMITED ; SENSORTEC LTD

Inventor(s): (std): CROSS PETER STEPHEN ; CLAYCOMB RODNEY WAYNE ; CROSS PETER S ; CLAYCOMB RODNEY W ; RODNEY WAYNE CLAYCOMB ; PETER STEPHEN CROSS

Inventor(s): CROSS PETER ; CLAYCOMB RODNEY

Agent(s): WRAYS; LOWE HAUPTMAN BERNER LLP; LOWE HAUPTMAN HAM AND BERNER LLP

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 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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU2004208641 AA	20040812	LSPB	+	published / reissued	
AU2004208641 BB	20101216	LSGT	+	granted / extensions (spc, cpc, pte)	
AU2004208641 BB	20101223	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : LELY PATENT N.V. OLDPARTY : FORMER APPLICANT(S): SENSORTEC LIMITED
AU2004208641 BB	20110414	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU2004208641 BB	20180823	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU2004208641 BB	20240130	PEXP		Calculated Patent Term Expiry	
NZ523948 A	20060831	LSPB	+	published / reissued	

NZ523948 A	20070126	LSGT	+PSEA	PATENT SEALED	
NZ523948 A	20071130	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ523948 A	20110225	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
NZ523948 A	20140131	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 3 YEARS UNTIL 30 JAN 2017 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20140128
NZ523948 A	20170127	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	TEXT : PATENT RENEWED FOR 1 YEAR UNTIL 30 JAN 2018 BY COMPUTER PACKAGES INC EFFECTIVE DATE : 20161231
NZ523948 A	20180831	LSLE	-LAPS	PATENT LAPSED	
US2006180093 AA	20060817	LSPB	+	published / reissued	
US2006180093 AA	20060217	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SENSORTEC LIMITED, NEW ZEALAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CROSS, PETER STEPHEN; CLAYCOMB, RODNEY WAYNE; REEL/FRAME:017270/0208 EFFECTIVE DATE : 20051116
US2006180093 AA	20100813	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2010206245 AA	20100819	LSPB	+	published / reissued	
US2010206245 AA	20100503	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : SENSORTEC LIMITED, NEW ZEALAND OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:CROSS, PETER STEPHEN; CLAYCOMB, RODNEY WAYNE; REEL/FRAME:024323/0695 EFFECTIVE DATE : 20051116
US2010206245 AA	20110829	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
WO04066720 A1	20040812	LSPB	+	published / reissued	
WO04066720 B1	20040916	LSRE	+B	LATER PUBLICATION OF AMENDED CLAIMS	EFFECTIVE DATE : 20040628
WO04066720 B1	20050729	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2004208641 COUNTRY OF REF DOCUMENT : AU
WO04066720 B1	20050818	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE	REF DOCUMENT NUMBER : 2004208641 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20040130 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO04066720 B1	20050818	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2004208641 COUNTRY OF REF DOCUMENT : AU
WO04066720 B1	20060217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 10543616 COUNTRY OF REF DOCUMENT : US
WO04066720 B1	20060217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2006180093 COUNTRY OF REF DOCUMENT : US
WO04066720 B1	20060315	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO04066720 B1	20060817	LSPB	+WWP	WIPO	REF DOCUMENT NUMBER : 10543616

Abstract: Source: DE8801103U1 [DE] (Claim 1) Bezeichnung der Erfindung: Sicherungskasten fuer ein Weidezaun- geraet Schutzansprueche: 1. Sicherungskasten fuer ein Weidezaungeraet mit einem an dessen Boden angeordneten, in das Erdreich eintreibbaren Anker, dadurch gekennzeichnet, dass der Anker (19) kastenseitig eine Kupplung (18) aufweist, die mit einer Gegenkupplung (17) am Kasten (10) eine im wesentlichen axialfest, aber drehbare Zuordnung von Kasten (10) und Anker (19) gewaehrleistet und dass der Anker (19) zumindest abschnittsweise als Erdbohrer (20) ausgebildet ist.

Machine translation: (Claim 1) Title of invention: the fuse box for a **fence**-DEVICE Schutzansprueche: 1 Fuse box for a Weidezaungeraet with one on the bottom arranged in the ground recoverable anchor, wherein the armature (19) box side, a clutch (18) which, with a mating coupling (17) on the box (10) axially an essentially but rotating assignment of box (10) and anchor (19) gewaehrleistet and that the armature (19), at least in sections as auger (20) is formed.

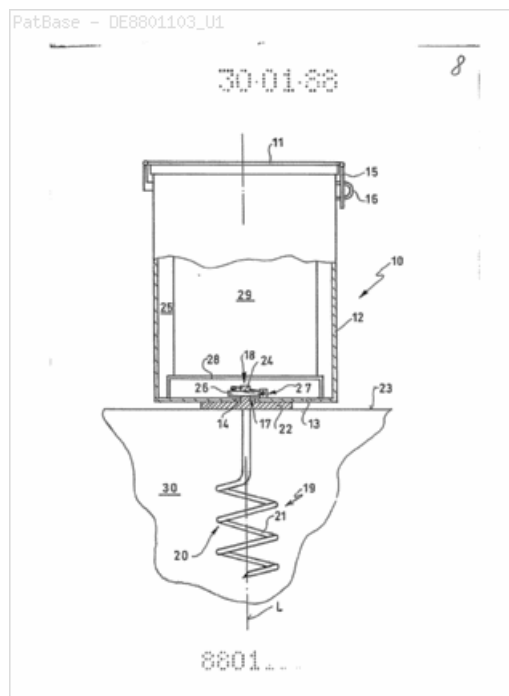
Classifications:

International (IPC 8-9): A01K3/00 (Advanced/Invention);
A01K3/00 (Core/Invention)

International (IPC 1-7): A01K3/00 E04H17/00

CPC: A01K3/005

European: A01K3/00C



Family:

Publication number	Publication date	Application number	Application date
DE8801103 U1	19880505	DE19880001103U	19880130

Priority:

DE19880001103U 19880130

Probable Assignee: LISTER GMBH LANDGERAETE U KUEHLANLAGENFABRIK 5880 LUEDENSCHEID DE

Assignee(s): LISTER GMBH LANDGERAETE U KUEHLANLAGENFABRIK 5880 LUEDENSCHEID DE ; LISTER GMBH LANDGERAETE UND KUEHLANLAGENFABRIK 588 ; LISTER GMBH LANDGERAETE UND KUEHLANLAGENFABRIK 5880 LUEDENSCHEID DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE8801103 U1	19880505	LSGT	+	granted / extensions (spc, cpc, pte)	
DE8801103 U1	19980130	PEXP		Calculated Patent Term Expiry	

Title: MONITORING OF PET STATUS DURING UNATTENDED DELIVERY

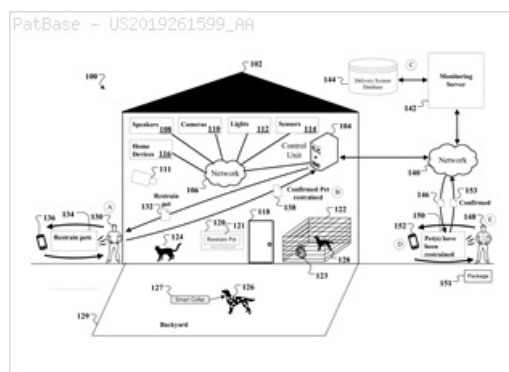
Abstract: Systems and techniques are described for pet monitoring during unattended delivery. In some implementations, a monitoring system monitors a property includes sensors located throughout the property and generates sensor data. A monitor control unit receives a first indication that a resident of the property will be receiving a delivery during a delivery time. Based on the sensor data and during the delivery time, the monitor control unit determines that a pet, that resides at the property, has been restrained. The monitor control unit provides, to a delivery person, a second indication that the pet at the property has been restrained.

Classifications:

International (IPC 8-9): A01K11/00 A01K15/00 A01K27/00 A01K3/00

G01S5/00 G08B13/00 G08B21/02 H04N7/18 (Advanced/Invention)

CPC: A01K11/008 G08B21/0269 A01K3/005 G08B21/0286 A01K27/009
G08B21/0288 A01K15/023 G01S5/0027 G01S19/14 G01S5/00 H04N7/18
H04N7/181

**Family:**

Publication number	Publication date	Application number	Application date
US2019261599 AA	20190829	US20190289249	20190228
WO19169164 A1	20190906	WO2019US20104	20190228

Priority:

US20180636499P 20180228 US20190289249 20190228

Probable Assignee: ALARM COM INC

Assignee(s): (std): BEDELL JEFFREY A ; KINNEY ABRAHAM JOSEPH ; BAUER JACE JAWN ; CORRENTI MATTHEW DANIEL ; PICARDI ROBERT ; ALARM COM INC

Assignee(s): ALARMCOM INC

Inventor(s): (std): BEDELL JEFFREY A ; KINNEY ABRAHAM JOSEPH ; BAUER JACE JAWN ; PICARDI ROBERT NATHAN ; CORRENTI MATTHEW DANIEL ; PICARDI ROBERT

Agent(s): CARLSON CRAIG E ET AL

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 JO JP KE KG KH KM KN KP KR KW KZ LA LC 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
US2019261599 AA	20190829	LSPB	+	published / reissued	
US2019261599 AA	20190916	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALARM.COM INCORPORATED, VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BEDELL, JEFFREY A.; KINNEY, ABRAHAM JOSEPH; BAUER, JACE JAWN; AND OTHERS; SIGNING DATES FROM 20190531 TO 20190911; REEL/FRAME:050387/0160
US2019261599 AA	20191031	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ALARM.COM INCORPORATED, VIRGINIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:BEDELL, JEFFREY A.; KINNEY, ABRAHAM JOSEPH; BAUER, JACE JAWN; AND OTHERS; SIGNING DATES FROM 20190531 TO 20190911; REEL/FRAME:050882/0157
WO19169164 A1	20190906	LSPB	+	published / reissued	

Title: INSULATOR FOR MOUNTING **ELECTRIC FENCE** CONDUCTORS

Abstract: A plastic insulator for holding an electrified conductor, and particularly a conductor of a tape configuration, in insulated relation to a **fence** post and in elevated position above the ground. The insulator includes a clamping arrangement releasably holding the conductor against axial or radial movement by a pair of conductor engaging members hinged together for movement between a tape receiving and a tape clamping position. The clamping arrangement includes a latch mechanism with a coating finger and a deflectable tab with an opening to receive the finger to prevent relative movement of the conductor engaging members and inadvertent opening of the clamping arrangement.

Classifications:

International (IPC 8-9): A01K3/00 H01B17/14 (Advanced/Invention);

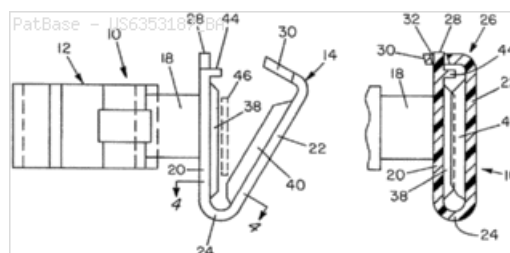
A01K3/00 H01B17/14 (Core/Invention)

International (IPC 1-7): H01B1/716 H01B17/16

CPC: A01K3/005 H01B17/145

European: A01K3/00C H01B17/14B

US: 174/158F 174/175 256/10 256/48 256/53



Family:

Publication number	Publication date	Application number	Application date
US6353187 BA	20020305	US20000620863	20000721

Priority:

US20000620863 20000721

Probable Assignee: WILSON JR ROBERT M

Assignee(s): (std): WILSON JR ROBERT M

Inventor(s): (std): WILSON JR ROBERT M

Inventor(s): ROBERT M WILSON JR

Agent(s): GIFFORD KRASS GROH SPRINKLE ANDERSON AND CITKOWSKI PC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US6353187 BA	20020305	LSGT	+	granted / extensions (spc, cpc, pte)	
US6353187 BA	20020214	LSGT	PAT1	Patented Case	
US6353187 BA	20020214	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6353187 BA	20050707	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6353187 BA	20090617	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6353187 BA	20130716	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6353187 BA	20200721	PEXP		Calculated Patent Term Expiry	

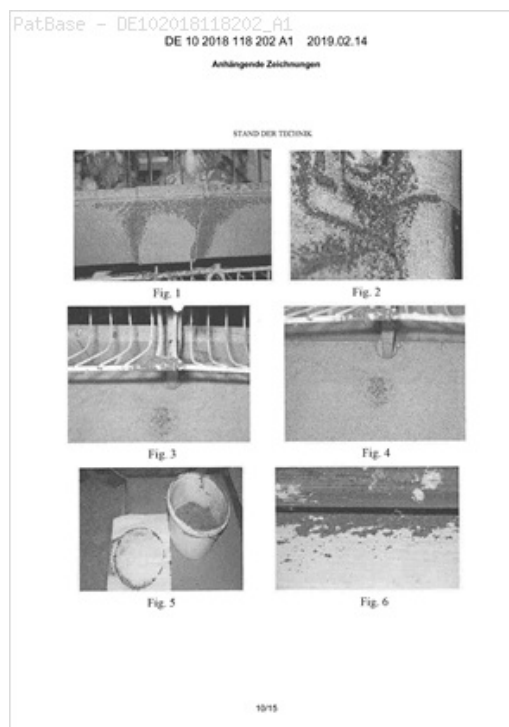
Title: KONTROLLE DER ROTEN MILBEN (DERMANYSSUS GALLINAE) DURCH ANWENDUNG VON SCHRANKEN, FARBEN UND BESCHICHTUNGEN

Abstract: Source: DE102018118202A1 [DE] Unter Beruecksichtigung der geografischen Verbreitung, der hohen Praevalenz, und der direkten und indirekten gesundheitlichen und wirtschaftlichen Schaeden gehoert die rote Vogelmilbe Dermanyssus gallinae zu den vorrangigen Themen des Gesundheitsschutzes bei Gefluegel. In der aktuellen Praxis der Gefluegelhaltung sind groessere oder kleinere Fehler und Maengel in der Kaefigkonstruktion und an der Ausruestung charakteristisch. Es ist daher das Ziel der Erfindung, durch Anwendung von Barrieren, Farben und Anstrichen die Kontrolle der roten Vogelmilben zu sichern. Die Kontrolle der roten Vogelmilben gemaess der Erfindung wird insbesondere gesichert durch: 1. Das Verfahren der Elimination oder der Minimalisierung des Einflusses von uebereinanderliegenden Stellen durch Verwendung von Farben, Anstrichen oder physischer Blockade der Problemstellen; 2. Die Konstruktion der Barriere und das Verfahren der Abtrennung der Umgebungskontinuitaet: des Kaefigs, der Sitzstangen und Nester vom Boden und von den Waenden mithilfe der physischen Anwendung von Isoliermassen auf der Unterlegscheibe mit ringfoermigem Ansatz an der Unterseite und/oder im tiefen Gefaess, in das die Pfeiler der Tragkonstruktion eingetaucht sind; 3. Das Verfahren und die Konstruktion einer einfachen Kontrolle der Sicherheit in der extensiven Eierproduktion; 4. Das Verfahren der Elimination von Raum im Innenfalz des Futtertrogs durch dauerhaftes Ausfuellen mit einer neutralen Masse. **Machine translation:** Taking into account the geographical distribution, the high pre-valence, and the direct and indirect health and economic damage, the red bird mite Dermanyssus gallinae among the priority topics of health protection for poultry. In the current practice of poultry husbandry are larger or smaller errors and deficiencies in the cage construction and equipment characteristic. It is therefore the object of the invention, by use of barriers, colors and paints the control of the red bird mites to secure control of the red bird mites. In accordance with the invention, in particular, secured by: 1. The method of elimination or minimizing the influence of superimposed by use of colors, paints or physical blockage of the problem 2. The construction of the barrier and the method of removal of the environment of the cage to the continuity: perches and nests from the bottom and from the walls using the physical application of insulation materials on the washer with ring-shaped flange at the bottom and/or the deep vessel, in the pillar of the supporting construction are immersed; 3. The method and the construction of a simple control of security in the extensive egg production; 4. The method of elimination of space in the inner fold of the Futtertrogs with a neutral ground by permanently filling.

Classifications:

International (IPC 8-9): A01K31/00 A01M1/02 A01M1/10 A01M1/14 (Advanced/Invention)

CPC: A01K31/00 A01M29/34



Family:

Publication number	Publication date	Application number	Application date
DE102018118202 A1	20190214	DE201810118202	20180727
RS20170762 A1	20190131	RS20170000762	20170728

Priority:

RS20170000762 20170728

Probable Assignee: PULLOS DOO BEOGRAD NOVI BEOGRAD

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Inventor(s): (std): PAVLICEVIC ALEKSANDAR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE102018118202 A1	20190214	LSPB	+	published / reissued	
RS20170762 A1	20190131	LSPB	+	published / reissued	

