

Search history

Search 1: FT=(demining* and plate* and explosive*) (Results 90)

1) Family number: 34028021 (FR2887111A)

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Title: DANGEROUS/SUSPECTED OBJECT E.G. CAR, PROTECTION DEVICE, HAS PARTS WITH CONDUCTING ZONES IN ELECTROMAGNETIC RELATION WITH VOLUME AND EXTERIOR OF DEVICE AND IN ELECTRICAL CONTINUITY WITH EACH OTHER, WHERE ZONES FORM SHIELD AROUND VOLUME

Abstract: The device has lower and upper parts (4, 5) equipped with a lower frame (3) and an upper frame (6), respectively. The parts have a lower wall (2) and a dome shaped wall (7), respectively, where the walls have conducting zones. The frames are in electrical contact when the parts cooperate to delimit an inner volume (8) containing an object e.g. car. The zones are in an electromagnetic relation with the volume and with the exterior of the device and are in electrical continuity with each other, where the zones form an electromagnetic shield around the volume. Independent claims are also included for the following: (1) a system having two object protection devices (2) a method for protecting an object protection device from electromagnetic activation systems.

Classifications:

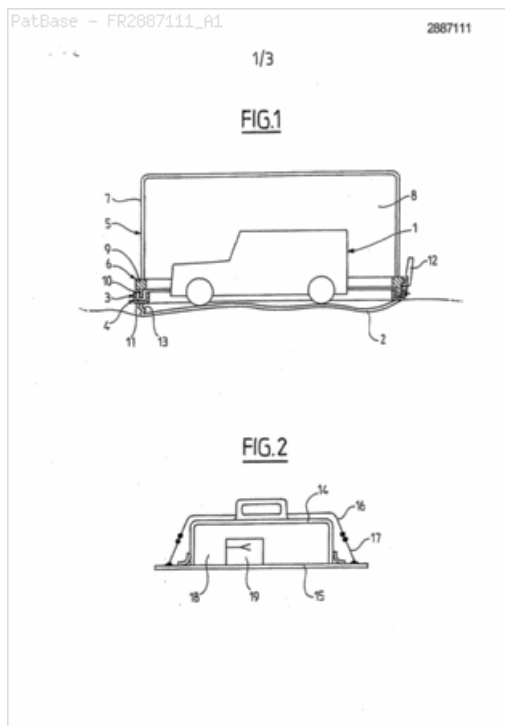
International (IPC 8-9): G12B17/02 H01Q17/00

H05K9/00 (Advanced/Invention);

G12B17/00 H01Q17/00 H05K9/00 (Core/Invention)

CPC: H05K9/0001

European: H05K9/00A



Family:

Publication number	Publication date	Application number	Application date
FR2887111 A1	20061215	FR20050005831	20050608

Priority:

FR20050005831 20050608

Probable Assignee: SEMA SA

Assignee(s): (std): SEMA SA

Assignee(s): SEMA SOC ANONYME ; SEMA SOCIETE ANONYME

Inventor(s): (std): LAUBIE CHARLES

2) Family number: 30277032 (US2004077289A)

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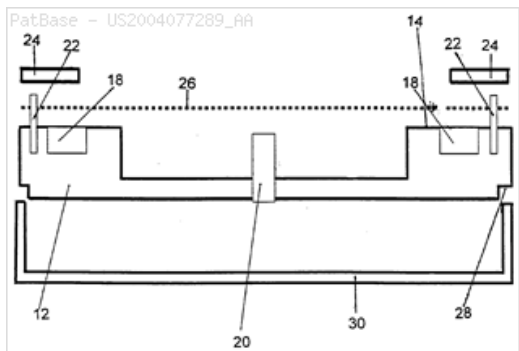
Title: METHOD AND APPARATUS FOR CONDITIONING HONEY BEES

Abstract: A method to condition honey bees to search for a non-reward producing target odor source is described. The method can be used to enable bees to identify a number of chemical substances such as those associated with unexploded ordinances, land mines, and illicit drug laboratories. Further, the subject method can be used to increase pollination efficiency by conditioning the bees to search for a specific vapor from a target crop. The method includes conditioning the bees to the target odor by moving their hives into a staging area. The staging area is located at least two miles from the ultimate site to be searched. The target odor is applied to the hives. Bulk feeders containing the target odor are placed near the hives. The hives are reoriented to the bulk feeders for several days. The hives are then moved to the search site and

feeding/conditioning means containing the target odor are placed nearby. For the first, approximately 24 hours, the bees are fed from the feeding/conditioning means. Thereafter, periods of feeding and starvation are alternated to encourage the bees to forage and identify the target source. Several embodiments of the feeding/conditioning means which present the target odor to the bee during conditioning are described. Additionally, an automated feeding controller delivery means useful in the conditioning method is described.

Classifications:

International (IPC 8-9): A01K15/02 A01K47/00 A01K47/06 A01K53/00 A01K55/00 A01K67/033 (Advanced/Invention)
International (IPC 1-7): A01K47/00 A01K47/06 A01K51/00 A01K53/00 A01K57/00
CPC: F41H11/132 A01K67/033 A01K15/02 A01K47/00 A01K47/06 A01K53/00 A01K55/00
European: A01K15/02 A01K47/00 A01K47/06 A01K53/00 A01K55/00 A01K67/033
US: 449/2 449/20 449/2P 449/3 449/3P 449/48



Family:

Publication number	Publication date	Application number	Application date
AU2003257989 AA	20040216	AU20030257989	20030730
AU2003257989 AH	20040216	AU20030257989	20030730
AU2003263954 AA	20040216	AU20030263954	20030730
AU2003263954 AH	20040216	AU20030263954	20030730
US2004077289 AA	20040422	US20030631176	20030730
US2004077290 AA	20040422	US20030631175	20030730
US6896579 BB	20050524	US20030631176	20030730
US6910941 BB	20050628	US20030631175	20030730
WO04010775 A2	20040205	WO2003US24079	20030730
WO04010775 A3	20040408	WO2003US24079	20030730
WO04010776 A2	20040205	WO2003US24080	20030730
WO04010776 A3	20040910	WO2003US24080	20030730

Priority:

US20020399616P 20020730 US20020400034P 20020730 US20030631175 20030730
WO2003US24079 20030730 US20030631176 20030730 WO2003US24080 20030730

Probable Assignee: OF MONTANA UNIV

Assignee(s): (std): BROMENSHENK JERRY ; ETTER ROBERT T ; HENDERSON COLIN B ; UNIV MONTANA ; SECCOMB ROBERT A ; RICE STEVEN D

Assignee(s): UNIVERSITY ; UNIVERSITY OF MONTANA UNIVERSITY HALL ; UNIV ; THE UNIVERSITY OF MONTANA ; MONTANA UNIV ; OF MONTANA UNIV

Inventor(s): (std): SECCOMB ROBERT A ; RICE STEVEN D ; HENDERSON COLIN B ; ETTER ROBERT T ; BROMENSHENK JERRY

Inventor(s): COLIN B HENDERSON ; JERRY BROMENSHENK ; ROBERT A SECCOMB ; ROBERT T ETTER ; STEVEN D RICE

Agent(s): 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

3) Family number: 44594074 (US7683821B)

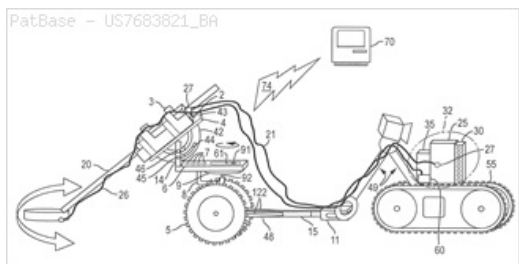
© PatBase

Title: SENSOR SWEEPER FOR DETECTING SURFACE AND SUBSURFACE OBJECTS

Abstract: An apparatus and method for detecting surface and subsurface objects is provided. A sweeping mechanism comprising a sensor is connected to a mounting frame. The mounting frame is connected to a motorized host platform. The sweeping mechanism sweeps the sensor according to a predetermined footprint when the motorized host platform either pulls or pushes the mounting frame. A signaling mechanism connected to the sensor produces a signal when the sensor senses an object beneath the surface.

Classifications:

International (IPC 8-9): G01S13/04 (Advanced/Invention)
CPC: F41H11/12 F41H11/136 F41H11/16 G01S13/885 G01V3/15
European: F41H11/12 F41H11/136 F41H11/16 G01S13/88D G01V3/15
US: 342/22 342/27



Family:

Publication number	Publication date	Application number	Application date
US7683821 BA	20100323	US20070977582	20071025

Priority:

US20060854395P 20061025 US20070967558P 20070905 US20070977582 20071025

Probable Assignee: NIITEK INC

Assignee(s): (std): NIITEK INC

Inventor(s): (std): CLODFELTER JAMES F
Agent(s): DLA PIPER LLP (US); DLA PIPER LLP

4) Family number: 51042083 (WO12057780A1)

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Title: EXPLOSION RESISTANT MINE DETONATION REEL AND SELF-STEERING DEVICE FOR SAME

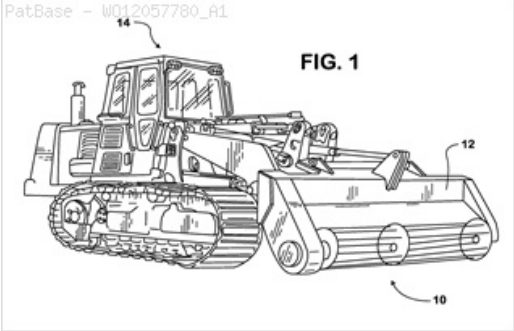
Abstract: A vehicle-mounted demining system including a frame configured to attach to a vehicle, an axle secured within the frame, a first wheel secured at a first end of the axle, a second wheel secured at a second end of the axle, and a plurality of rods detachably secured between and within the wheels, is disclosed. The system is weighted to apply a force through the rods to the ground over a desired path within the range of from about 50 lbs/in² to about 200 lbs/in² in order to detonate particular pressure-sensitive land mines. The system may also include at least one intermediate wheel secured to the axle between the first wheel and the second wheel, and a mechanical vibratory counter-mine device attached to at least one of either the first or the second wheel. A self-steering device for the vehicle-mounted demining system is also disclosed.

Classifications:

International (IPC 8-9): F41H11/00 (Advanced/Invention)

CPC: F41H11/26

European: F41H11/26



Family:

Publication number	Publication date	Application number	Application date
WO12057780 A1	20120503	WO2010US54663	20101029

Priority:

WO2010US54663 20101029

Probable Assignee: NAVISTAR CANADA INC

Assignee(s): (std): NAVISTAR CANADA INC ; ORIET LEO P

Inventor(s): (std): ORIET LEO P

Agent(s): BACH MARK ET AL

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

5) Family number: 30240110 (WO03074961A2)

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Title: ON-SITE LAND MINE REMOVAL SYSTEM

Abstract: A method of deactivating land mines buried in ground comprises projecting high-pressure water jets into ground, cutting through ground with the high-pressure water jets, and making at least one cut through a land mine or cutting through at least one land mine that had been under the ground, the cutting of the land mine reducing the performance of the land mine. The method may reduce the performance of the land mine by rendering the land mine inactive to normal detonation procedures for the land mine. To reach as many surface areas on the buried landmines, it is preferable that at least two high-pressure water jets are spaced apart are used to cut through the ground. The method may be practiced with the high-pressure water jet being carried on a vehicle and cutting is done in a line that is formed at least in part by movement of the vehicle over the ground while the high-pressure water jet is cutting ground. An apparatus for the reduction in effectiveness of land mines buried in ground may comprise a self-contained push-cart unit or a unit attached or attachable to a vehicle. A complete system could comprise a vehicle having a source of liquid, a high-pressure pump to move the liquid under high pressure, a nozzle directing a liquid jet path for the liquid, a support for the nozzle, abrasive delivery system, and nozzle being controllable to direct the liquid towards the ground while the nozzle is fixed relative to the vehicle.

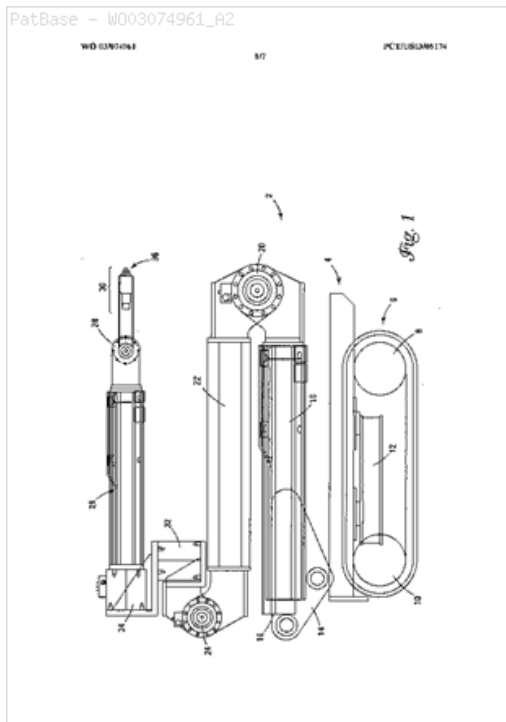
Classifications:

International (IPC 8-9): F41H11/16 F41H11/20 (Advanced/Invention)

International (IPC 1-7): F41H11/16

CPC: F41H11/16

European: F41H11/16

**Family:**

Publication number	Publication date	Application number	Application date
AU2003213629 AA	20030916	AU20030213629	20030228
CA2477775 AA	20040831	CA20032477775	20030228
EP1488186 A2	20041222	EP20030711312	20030228
WO03074961 A2	20030912	WO2003US06174	20030228
WO03074961 A3	20031231	WO2003US06174	20030228
WO03074961 B1	20041007	WO2003US06174	20030228

Priority:

US20020361506P 20020301 WO2003US06174 20030228

Probable Assignee: BRISANT COMPANIES

Assignee(s): (std): BRISANT COMPANIES ; MANDERS STEPHEN

Inventor(s): (std): MANDERS STEPHEN

Inventor(s): STEPHEN MANDERS

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

Designated states: AE AG AL AM AT AU AZ BA BB BE BG BR BY BZ CA CH CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GB GD GE GH GM GR 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 MN MW MX MZ NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

6) Family number: 66793110 (CO20170001545A)

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Title: MOCHILA CONVERTIBLE EN CHALECO ANTI-FRAGMENTACION CONVERTIBLE BACKPACK IN ANTI-fragmentation vest (Machine translation)

Classifications:

International (IPC 8-9): F41H13/00 F41H5/08 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO20170001545 A1	20170630	CO20170001545	20170216

Priority:

CO20170001545 20170216

Probable Assignee: CIA MIGUEL CABALLERO SAS

Assignee(s): CIA MIGUEL CABALLERO SAS

Inventor(s): CAROLINA BALLESTEROS CASAS

Agent(s): CAROLINA MERCEDES DAZA MONTALVO

7) Family number: 73094128 (US10197364B)

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Title: DEMINING DEVICE

Abstract: A demining device has a controlled detonator or hammer assembly mounted on a ram drive; which, when it is used as a demining device, permits efficient elimination of a minefield with minimal danger to the operator of the tractor, and

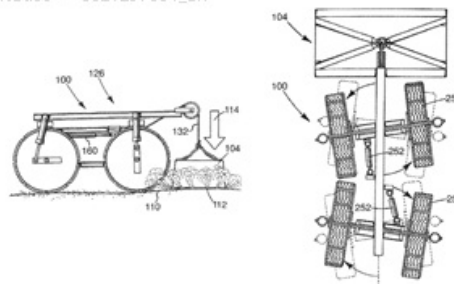
which can be easily assembled from parts on hand or otherwise used with a device for exploding mines in a minefield.

Classifications:

International (IPC 8-9): F41H11/16 F41H11/18 (Advanced/Invention)

CPC: F41H11/18 F41H11/16

PatBase - US10197364_BA



Family:

Publication number	Publication date	Application number	Application date
US10197364 BA	20190205	US20150671478	20150327

Priority:

US20150671478 20150327

Probable Assignee: CHRIST GARY W

Assignee(s): (std): CHRIST GARY W

Inventor(s): (std): CHRIST GARY W

Agent(s): PERRONE JR MATHEW R P; WHANG JOSEPH

8) Family number: 28417150 (US6536553B)

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Title: METHOD AND APPARATUS USING ACOUSTIC SENSOR FOR SUB-SURFACE OBJECT DETECTION AND VISUALIZATION

Abstract: An apparatus for detecting an underground object includes a container in contact with the ground surface; a medium disposed in the container; at least one acoustic sensor disposed in the medium in the container; and an output device connected to the acoustic sensor. A portion of the container in contact with the ground is substantially acoustically transparent and conforms to contours of the ground. The acoustic impedance of the medium in the container is substantially the same as the acoustic impedance of the ground. A method of detecting an underground object includes receiving reflected acoustic noise with at least one acoustic sensor immersed in a medium, the medium being disposed in a container in contact with a ground surface; converting the reflected acoustic noise to electrical signals; and, using an output device, converting the electrical signals to a form that can be sensed by a human to determine if the underground object has been detected.

Classifications:

International (IPC 8-9): G01N29/22 G01N29/24 G01N29/28

G01V1/00 G01V1/047 (Advanced/Invention);

G01N29/22 G01N29/24 G01N29/28 G01V1/00

G01V1/02 (Core/Invention)

International (IPC 1-7): G01N29/04 G01V1/00

CPC: Y10S181/401 G01N29/226 G01N29/069 G01N29/2493

G01N29/28 G01N2291/0421 G01N2291/105 G01V1/001 G01V1/047

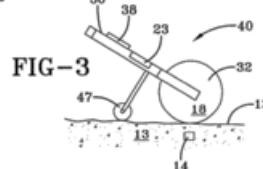
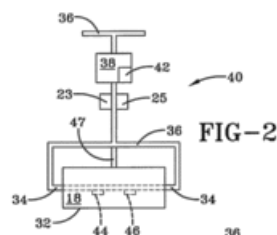
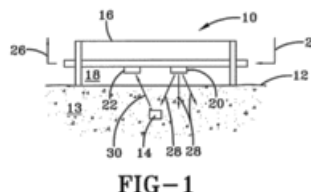
European: G01N29/06D4 G01N29/22M2 G01N29/24W G01N29/26B

G01N29/28 G01V1/00A G01V1/047 S01N291/042B S01N291/105

US: 181/108 181/401 367/178 73/636 73/639

PatBase - US6536553_BA

U.S. Patent Mar. 25, 2003 Sheet 1 of 9 US 6,536,553 B1



Family:

Publication number	Publication date	Application number	Application date
US6536553 BA	20030325	US20000557939	20000425

Priority:

US20000557939 20000425

Probable Assignee: US ARMY

Assignee(s): (std): US ARMY

Assignee(s): SECRETARY OF ARMY AS US GOV ; SECRETARY OF ARMY US ; THE UNITED STATES OF AMERICA AS

Inventor(s): (std): SCANLON MICHAEL V

9) Family number: 42269163 (HR20030446B)

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Title: HUMANITARIAN MINE CLEARANCE MACHINE

Abstract: Source: HR20030446B [HR] Stroj s mlatilicom za humanitarno razminiranje s radnim strojem koji se nalazi ispred pogonskog stroja, baziranog na građevinskom stroju, naznačen time, da se sastoji od pogonskog stroja (1), radnog stroja (2), pogonskog dijela (4) radnog stroja, vratila (6) te lanaca (7) i mlatila (8), gdje je radni stroj pomoću prihvatnica (11) spojen s pogonskim strojem, pri čemu se konstrukcijom zaštitne ploče (9) i zaštitnog štita s oprugama (5), koji su u spoju s kucištem radnog stroja (3), štiti pogonski dio radnog stroja i pogonski stroj. Patent sadrži još 4 patentna zahtjeva.

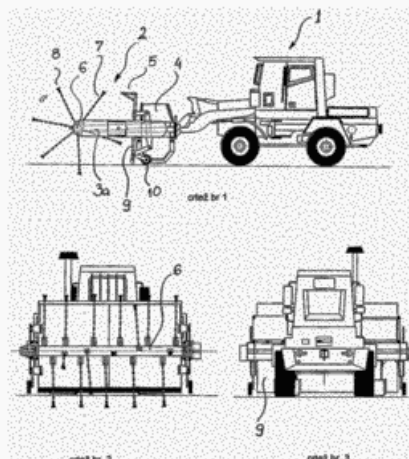
Classifications:

International (IPC 8-9): F41H11/12 (Advanced/Invention)

CPC: F41H11/18

PatBase - HR20030446_A2

HR P20030446 A2



Family:

Publication number	Publication date	Application number	Application date
HR20030446 A2	20080930	HR20030000446	20030604
HR20030446 B3	20100131	HR20030000446	20030604

Priority:

HR20030000446 20030604

Probable Assignee:

VUKIC FRANJO

Assignee(s): (std):

VUKIC FRANJO

Assignee(s):

FRANJO VUKIC

Inventor(s): (std):

VUKIC FRANJO

Inventor(s):

FRANJO VUKIC

10) Family number: 60169168 (US2015241179A)

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Title: SIMPLE LOW-COST HAND-HELD LANDMINE NEUTRALIZATION DEVICE

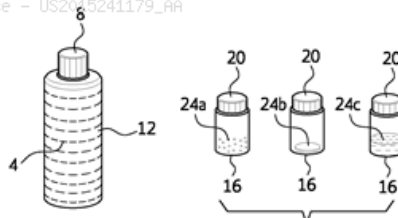
Abstract: A low-cost, reliable and easy to use kit for neutralizing surface exposed landmine and unexploded ordnance for humanitarian demining is provided. The kit contains a liquid fuel and a solid/soluble fuel. Both fuels are premeasured in separate, sealed containers. The addition of a small quantity of solid/soluble fuel into the liquid creates an explosive. The resulting mixture is capable of detonating with a standard No. 8 blasting cap. The solid/soluble fuel can be in the form of a powder, tablet, or its saturated solution in water. The solid/soluble fuel is hexamethylenetetramine. The liquid fuel, nitromethane, is provided in premeasured quantities. User is provided instructions for choosing the appropriate quantity of liquid fuel, the corresponding solid/soluble fuel required, the method of mixing, placement and detonation of the kits. Also disclosed is a simple wooden stand to hold the bottle of explosive in place. A special fuel, liquid 2-ethylhexylnitrate, is provided to desensitize the mixed and sensitized explosive.

Classifications:

International (IPC 8-9): B64D1/04 C06B23/00 C06B25/00 C06B25/36 C06B47/00 F16M11/04 F41F5/00 F41H11/12 F42B12/20 F42B3/00 F42B3/10 F42B3/26 (Advanced/Invention)

CPC: F41H11/12 F42B3/10 C06B23/002 C06B25/00 C06B47/00 F16M11/043 C06B25/36 F42B3/00 F42B3/26 F42B12/207 F42B33/067
US: 1/1 248/124.1 89/1.13

PatBase - US2015241179_AA



Family:

Publication number	Publication date	Application number	Application date
US2015241179 AA	20150827	US20140186162	20140221
US2016116259 AA	20160428	US20150867236	20150928
US2017299348 AA	20171019	US20160335473	20161027
US9175933 BB	20151103	US20140186162	20140221
US9506729 BB	20161129	US20150867236	20150928
US9797693 BA	20171024	US20160335473	20161027

Priority:

US20140186162 20140221 US20150867236 20150928 US20160335473 20161027

Probable Assignee:

US ARMY

Assignee(s): (std):

ARMY US SEC ; US ARMY

Assignee(s):

SECRETARY OF ARMY AS US GOV

Inventor(s): (std):

PATEL DIVYAKANT L

Agent(s):

RICHARD J

11) Family number: 66708169 (US2017241750A)

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Title: ELECTRO-DISCHARGE SYSTEM FOR NEUTRALIZING LANDMINES

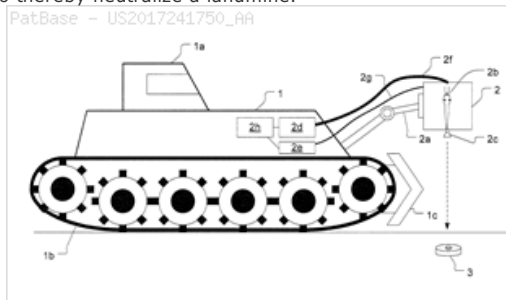
Abstract: A landmine-neutralization system has a vehicle including a water supply tank and an electrical power supply and an electro-discharge apparatus. The electro-discharge apparatus includes one or more electro-discharge nozzles each having a discharge chamber that has an inlet for receiving water from the water supply tank and an outlet, a first electrode extending into the discharge chamber and being electrically connected to one or more high-voltage capacitors that are connected to, and chargeable by, the electrical power supply, a second electrode proximate to the first electrode to define a gap between the first and second electrodes and a switch to cause the one or more capacitors to discharge across the gap between the electrodes to create a plasma bubble which expands to form a shockwave that escapes through one or more exit orifices of the one or more nozzles ahead of the plasma bubble to thereby neutralize a landmine.

Classifications:

International (IPC 8-9): B05B17/06 F41H11/12 F41H11/13

F41H11/136 F41H11/16 F41H11/18 (Advanced/Invention)

CPC: F41H11/16 B05B17/0653 F41H11/13 F41H11/18 F41H11/136

**Family:**

Publication number	Publication date	Application number	Application date
CA2921675 AA	20170824	CA20162921675	20160224
CA2921675 C	20171205	CA20162921675	20160224
DE602016007709 D1	20181227	DE201660007709T	20160315
DK3211359 T3	20190325	DK20160160317T	20160315
EP3211359 A1	20170830	EP20160160317	20160315
EP3211359 B1	20181205	EP20160160317	20160315
HR20190415 T1	20190419	HR20190000415	20190304
US2017241750 AA	20170824	US20160144160	20160502
US2017307340 AA	20171026	US20170399074	20170105
US2018023929 AA	20180125	US20170719726	20170929
US9739574 BA	20170822	US20160144160	20160502
US9829283 BB	20171128	US20170399074	20170105
US10024635 BB	20180717	US20170719726	20170929

Priority:

CA20162921675 20160224 EP20160160317 20160315 US20160144160 20160502
US20170399074 20170105 US20170719726 20170929

Probable Assignee: VLN ADVANCED TECHNOLOGIES INC**Assignee(s):** (std): VLN ADVANCED TECH INC**Assignee(s):**

VLN ADVANCED TECHNOLOGIES INC OTTAWA ; DANIELS BRUCE R ; PANARELLA EMILIO ; TIEU ANDREW HUNG ; VIJAY MOHAN M ; VLN ADVANCED TECHNOLOGIES INC ; YAN WENZHUO ; XU MEISHENG M

Inventor(s): (std):

PANARELLA EMILIO ; YAN WENZHUO ; XU MEISHENG ; DANIELS BRUCE ; VIJAY MOHAN ; TIEU ANDREW ; VIJAY MOHAN M ; TIEU ANDREW HUNG ; XU MEISHENG M ; DANIELS BRUCE R

Inventor(s):

VIJAY MOHAN M OTTAWA ; PANARELLA EMILIO OTTAWA ; XU MEISHENG M OTTAWA ; YAN WENZHUO OTTAWA ; DANIELS BRUCE R OTTAWA ; TIEU ANDREW HUNG OTTAWA

Agent(s):

GOWLING WLG CANADA LLP; VO; OSHEA GETZ PC

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

12) Family number: 32364169 (US6960267B)

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Abstract: A multi-component liquid explosive composition and method of mixing thereof. The steps include (a) providing a powder consisting of aluminum preferably having an average particle size of 5 to 50 microns and a surface area of 0.5 to 2 square meters per cubic centimeter containing 0.1 to 5 percent stearic acid by weight; (b) providing a liquid consisting of nitromethane; and (c) mixing said aluminum powder with the nitromethane to form a liquid explosive formulation detonable at a wide range of temperatures and diameters with a standard commercial number 8 blasting cap.

Classifications:

International (IPC 8-9): C06B25/36 C06B33/08 C06B45/00 D03D23/00 (Advanced/Invention);
C06B25/00 C06B33/00 C06B45/00 D03D23/00 (Core/Invention)

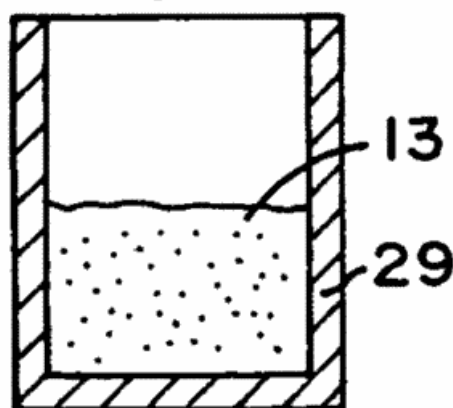
International (IPC 1-7): C06B45/00 D03D23/00

CPC: C06B25/36 C06B33/08

European: C06B25/36 C06B33/08

US: 149/109.6 149/2

PatBase - US6960267_BA



Family:

Publication number	Publication date	Application number	Application date
US6960267 BA	20051101	US20030606853	20030626

Priority:

US20030606853 20030626

Probable Assignee: NIXON III WILLIAM P
Assignee(s): (std): NIXON III WILLIAM P
Inventor(s): (std): NIXON III WILLIAM P
Inventor(s): III WILLIAM P ; NIXON
Agent(s): WALKER MCKENZIE AND WALKER PC

13) Family number: 15720218 (W00192850A1)

© PatBase

Title: METHOD AND APPARATUS FOR THE DETECTION OF A HIDDEN ELEMENT EXUDING VAPOR

Abstract: The invention relates to a method for the on-site and in real-time detection of a hidden element which is capable of exuding at least one trace vapor component comprising the subsequential steps of: collecting a sample of said trace vapor component through adsorption; optionally, concentrating said trace vapor component sample; causing a forced desorption of the trace vapor component; delivering the desorbed trace vapor content of the sample to a biosensor; detecting of the vapor content of the sample by a biosensor and finally analyzing the obtained detection result. The invention further relates to a vapor detection device for the detection of trace vapor exuding from hidden elements comprising a caged trained animal (13) housed in a cage (22), a sniffing chamber (19) in direct contact with the cage which sniffing chamber (19) is connected with a vapor delivery system (10) comprising two types of samples, i.e. one type containing a known concentration of trace vapor components and a second type of samples to be detected and containing a unknown vapor concentration and a mechanism for switching the position of the two types of samples.

Classifications:

International (IPC 8-9): A01K1/03 A01K15/02 A01K29/00 F41H11/12 G01N1/22 G01N1/34 G01N33/00 G01N33/22

G01N33/497 (Advanced/Invention);

G01N1/02 G01N1/24 (Advanced/Non-invention)

International (IPC 1-7): A01K15/02 G01N1/34

CPC: F41H11/132 G01N1/405 A01K1/031 A01K15/02 A01K29/00 G01N1/2214 G01N1/24 G01N33/0057 G01N2001/021 G01N2001/022 F41H11/13

European: A01K1/03A A01K15/02 A01K29/00 F41H11/12 G01N1/22B7 G01N1/24 G01N1/40P G01N33/00D2D4M S01N1/02C S01N1/02D S01N1/22B7 S01N1/24

PatBase - W00192850_A1

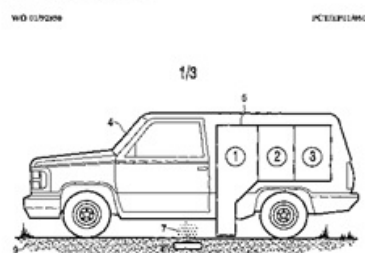


FIG. 1

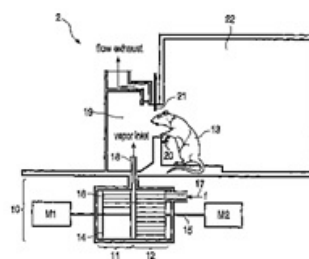


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AU2001277496 AA	20011211	AU20010277496	20010528
AU200177496 A1	20011211	AU20010077496	20010528
AU200177496 A5	20011211	AU20010077496	20010528
EP1160562 A1	20011205	EP20000870115	20000531
WO0192850 A1	20011206	WO2001EP06066	20010528

Priority:

EP20000870115 20000531 WO2001EP06066 20010528

Probable Assignee: UNI BEDRIJVENCENTRUM ANTWERPEN

Assignee(s): (std): AIC ; BILLET MIC ; COX CHRISTOPHE ; UNI BEDRIJVENCENTRUM ANTWERPEN ; ELIAS LORNE ; KRUNKELSVEN ELLEN VAN ; VERHAGEN RON ; WEETJENS BART

Assignee(s): UNIVERSITAIR BEDRIJVENCENTRUM ANTWERPEN ; VAN KRUNKELSVEN ELLEN ; UNIVERSITAIR BEDRIJVENCENTRUM ANTWERPEN UBCA

Inventor(s): (std): KRUNKELSVEN ELLEN VAN ; WEETJENS BART ; VERHAGEN RON ; VAN KRUNKELSVEN ELLEN ; ELIAS LORNE ; COX CHRISTOPHE ; BILLET MIC

Inventor(s): LORNE ELIAS ; MIC BILLET ; RON VERHAGEN ; BART WEETJENS ; CHRISTOPHE COX ; ELLEN VAN KRUNKELSVEN

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 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 LI 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 US UZ VN YU ZA ZW

14) Family number: 11668224 (US5936184A)

© PatBase

Title: DEVICES AND METHODS FOR CLEARANCE OF MINES OR ORDNANCE

Abstract: Disclosed are devices and methods for the destruction of an explosive device, such as mines and other unexploded ordnance, without the detonation of the explosive device. The devices comprise an explosive charge that penetrates and opens the casing of an explosive device and forces reactive material into the explosive device, thus neutralizing it.

Classifications:

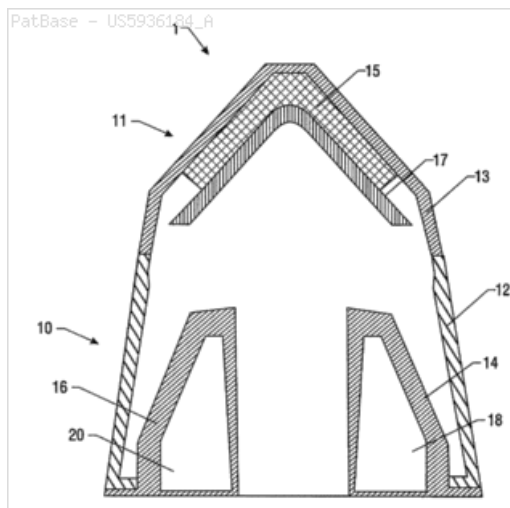
International (ipc 8-9): F42B3/08 F42B33/06 (Advanced/Invention); F42B3/00 F42B33/00 (Core/Invention)

International (ipc 1-7): B64D1/04 F42B1/00 F42B7/02

CPC: F42B3/08 F41H11/12 F42B33/06

European: F42B3/08 F42B33/06

US: 102/306 102/403 89/1.13 89/113



Family:

Publication number	Publication date	Application number	Application date
US5936184 A	19990810	US19970975235	19971121

Priority:

US19970975235 19971121

Probable Assignee: TRACOR AEROSPACE INC

Assignee(s): (std): TRACOR AEROSPACE INC

Inventor(s): (std): BROWN RONALD L ; MAJERUS MARK E

15) Family number: 32224225 (EP1574812A1)

© PatBase

Title: FLOOR FOR MILITARY OR CIVIL VEHICLE FOR PROTECTING AGAINST LAND MINES

Abstract: The device has a single layer plate (1) comprising an arch section fixed under a vehicle in order to provide protection against effects of explosion of a mine. The plate has a convex shape and is oriented towards ground to realize a deviation of a blast effect generated by the explosion of the mine. The arch section has geometrical continuity, and the plate is made up of a non-magnetic material.

Classifications:

International (ipc 8-9): F41H5/02 F41H7/00 F41H7/04

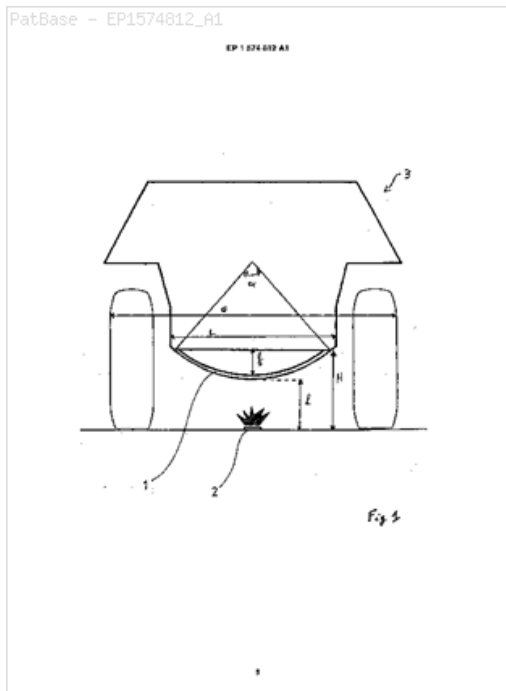
F42B23/04 (Advanced/Invention);

F41H5/00 F41H7/00 F42B23/00 (Core/Invention)

International (ipc 1-7): F41H5/02 F41H7/00 F41H7/04 F42B23/04

CPC: F41H7/042

European: F41H7/04B

**Family:**

Publication number	Publication date	Application number	Application date
EP1574812 A1	20050914	EP20050290460	20050302
FR2867554 A1	20050916	FR20040002426	20040309
FR2867554 B1	20060825	FR20040002426	20040309

Priority:

FR20040002426 20040309

Probable Assignee: GIAT IND SA**Assignee(s):** (std): GIAT IND SA**Assignee(s):** GIAT INDUSTRIES ; GIAT IND**Inventor(s):** (std): BARBE YVES ; RICHEUX ELISABETH ; WAGNEZ LAURENT**Designated states:** AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LU MC NL PL PT RO SE SI SK TR**16) Family number: 12892225 (EP0942257A1)**

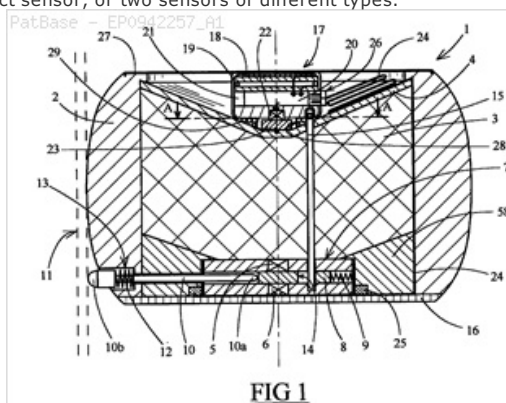
© PatBase

Title: MINE, IN PARTICULAR ANTI-TANK OR ANTI-VEHICLE MINE, WITH MEANS CONFIRMING THE PRESENCE OF A TARGET

Abstract: The detonation device offers increased security against premature detonation. The antitank or anti-vehicle mine (1) includes at least one explosive charge (3) which is intended to be triggered by a detonator (6) whose operation is controlled by an electronic circuit (20). The circuit is connected to a target detection device (25). There is also a device for confirming the presence of the target (18,19). This is deployed in the direction of the target by a small charge forming a projection device (23) but retained by a wire. The detection device may include an accelerometer, or a magnetic or electromagnetic sensor. Alternatively it may include an electric contact sensor, or two sensors of different types.

Classifications:**International (ipc 8-9):** F42C 11/00 F42C 15/40 (Advanced/Invention);

F42C 11/00 F42C 15/00 (Core/Invention)

International (ipc 1-7): F42B23/04 F42B23/24 F42C 11/00 F42C 15/40**CPC:** F42C 11/007 F42C 15/40**European:** F42C 11/00B10 F42C 15/40**Family:**

Publication number	Publication date	Application number	Application date
DE69902704 D1	20021010	DE19996002704T	19990227
DE69902704 D1	20021010	DE19996002704	19990227
DE69902704 T2	20030807	DE19996002704T	19990227
EP0942257 A1	19990915	EP19990103858	19990227
EP0942257 B1	20020904	EP19990103858	19990227
FR2776060 A1	19990917	FR19980003282	19980313
FR2776060 B1	20000623	FR19980003282	19980313

Priority:

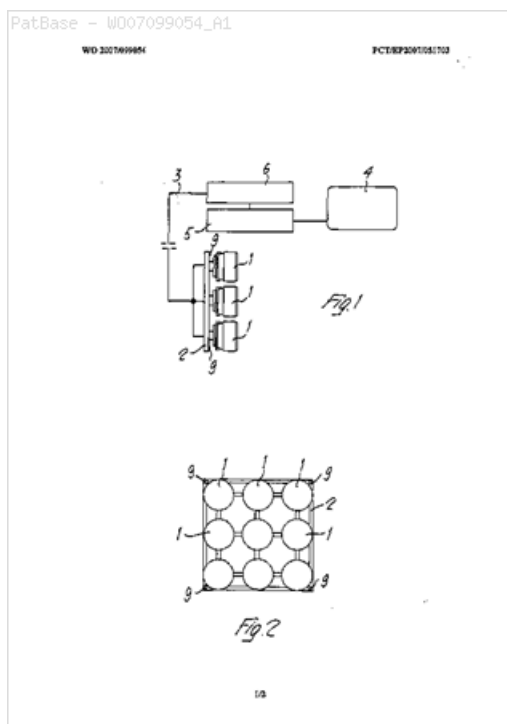
FR19980003282 19980313

Probable Assignee: GIAT IND SA**Assignee(s):** (std): GIAT IND SA**Assignee(s):** GIAT IND VERSAILLES ; GIAT INDUSTRIES ; GIAT INDUSTRIES VERSAILLES ; GIAT IND**Inventor(s):** (std): BOUTET CLAUDE**Designated states:** DE GB SE**17) Family number: 36053254** (WO07099054A1)

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Title: METHOD FOR INFRARED DETECTION OF BURIED UNEXPLODED OBJECTS IN HUMANITARIAN DEMINING OPERATIONS

Abstract: A method for the infrared detection of buried unexploded objects in the sub-surface layer of soils at small or moderate depths, in humanitarian demining operations, characterized by the fact that the target soil is locally heated by means of a microwave apparatus, in order to increase the thermal discontinuity between the unexploded objects and the materials surrounding them. Such a thermal discontinuity allows the individuation of the detonator and thus of the UXO. The unexploded objects can be localized at sub-soil depths ranging from some millimeters up to about 150 cm. The frequencies involved in the microwave apparatuses range from 2.45 GHz up to 10 GHz depending on soil composition and the depth of at which the unexploded objects are buried, and the heating times of the soil range from 2 to 20 minutes, and preferably from 5 to 10 minutes. The apparatus for performing the above method comprises at least one infrared camera and at least one microwave antenna (1).

Classifications:**International (IPC 8-9):** F41H11/12 (Advanced/Invention)**CPC:** F41H11/12**European:** F41H11/12**Family:**

Publication number	Publication date	Application number	Application date
ITGE20060026 A1	20070904	IT2006GE00026	20060303
WO07099054 A1	20070907	WO2007EP51703	20070222

Priority:

IT2006GE00026 20060303

Probable Assignee: MOGGIA ELSA**Assignee(s):** (std): MOGGIA ELSA ; SCIORTINO ANDREA**Inventor(s):** (std): MOGGIA ELSA ; SCIORTINO ANDREA

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 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 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

18) Family number: 61502260 (WO16012646A1)

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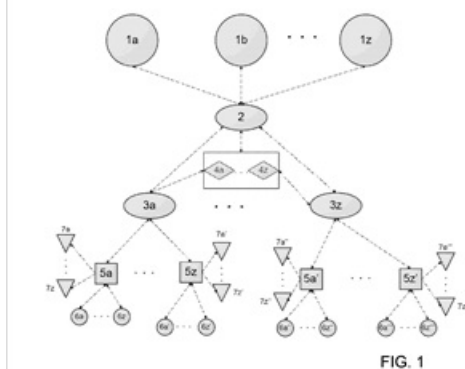
Title: METHOD AND SYSTEM FOR REMOTE ACTIVATION CONTROL

Abstract: The invention relates to a method and a system for remote activation, consisting of a monitoring and control node, various communication base nodes, various information sensors, various activating nodes which communicate with various detonating nodes and various warning signal systems. The method and system allow the intelligent and safe control of the remote action of actuators, which can be used in a training camp for security forces and bodies and also as an intelligent protection system.

Classifications:**International (IPC 8-9):** F41A33/00 F42B8/00 F42D1/00 G05B15/00

H04W84/18 H04W88/00 (Advanced/Invention)

CPC: H04W84/18 F41A33/00 F42B8/00 F42D1/00 G05B15/00



Publication number	Publication date	Application number	Application date
ES2557059 AA	20160121	ES20140031089	20140721
ES2557059 BA	20161103	ES20140031089	20140721
WO16012646 A1	20160128	WO2015ES70559	20150721

ES20140031089 20140721

Agent(s): CARPINTERO MARIO; CARPINTERO LOPEZ MARIO

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC 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 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 UB US UZ VC VN ZA ZW ZY

19) Family number: 6126271 (EP0232194A1)

Title: Pyrotechnic device for clearing mines or for creating incendiary effects.

Abstract: The invention relates to a deployable pyrotechnic propulsion system comprising a first container (100), a second container (200) forming a reservoir, a deployable envelope flattened and accommodated in the first container and equipped with a member (120) connecting it to the reservoir of the second container, and a pyrotechnic projectile (130) for deploying the envelope. According to the invention, the second container (200) contains a liquid reactive composition; the deployable envelope is a flexible tube (110) rolled up in the first container (100) and comprising a free front end (111) and a rear end (112) fixed to the first container (100) and connected to the connection member (120); the projectile (130) is connected to the front end (111) of the tube, in order to propel this end over a selected distance and in a selected rectilinear direction by simultaneously extending the tube from the first container along an effective line; and there are means for pressurising the liquid so that, after the tube has been unrolled and placed on the ground and the second container connected to the connection, the liquid composition can be introduced under pressure into the tube, the latter then forming a conduit for the liquid composition.

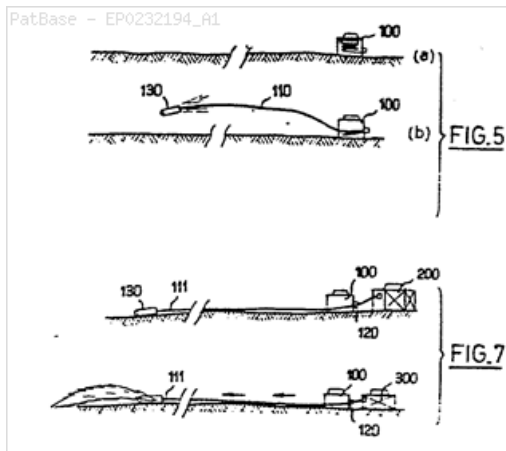
Classifications:

International (IPC 8-9): F41H11/14 F41H9/02 (Advanced/Invention)

International (IPC 1-7): F41H11/14 F41H9/02

CPC: F41H9/02 F41H11/14

European: F41H11/14 F41H9/02



Publication number	Publication date	Application number	Application date
EP0232194 A1	19870812	EP19870400076	19870114
FR2592947 A1	19870717	FR19860000432	19860114
FR2592947 B1	19891103	FR19860000432	19860114

FR19860000432 19860114

Probable Assignee: LACROIX E TOUS ARTIFICES

Assignee(s): (std): LACROIX E TOUS ARTIFICES ; LACROIX SOC E

Assignee(s): LACROIX TOUS ARTIFICES SA ; ETIENNE LACROIX TOUS ARTIFICES SA

Inventor(s): (std): BARICOS JEAN ; ROUSSEAU PHILIPPE

Inventor(s): PHILIPPE ROUSSEAU ET JEAN BARICOS

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

20) Family number: 9336278 (SE9203063A)

© PatBase

Title: SKYDDSANORDNING VID MINROEJNING

Abstract: Protective arrangement for mine clearing intended to be secured directly on the foot or on a shoe, the arrangement comprising a footplate 1, at least one ground plate 2, distance members 3 between the footplate 1 and the ground plate 2, and fastening members 4, the distance members 3 being arranged so that the footplate 1 is raised from the surface of the ground and the surface of the ground plate 2 in contact with the ground is located entirely or essentially outside the normal projected area of the footplate 1 on the ground.

Classifications:

International (IPC 8-9): A43B3/00 (Advanced/Invention);

A43B3/00 (Core/Invention)

International (IPC 1-7): F41H1/00 F41H11/12

CPC: A43B3/0026

European: A43B3/00M

PatBase - SE470498_B

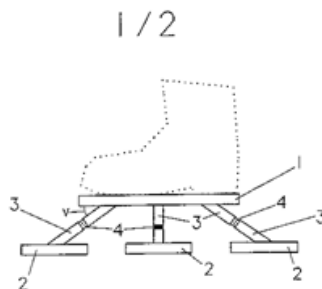


FIG 1

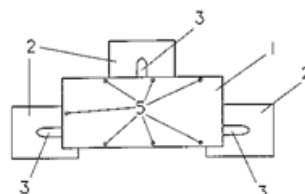


FIG 2

Family:

Publication number	Publication date	Application number	Application date
SE470498 B	19940606	SE19920003063	19921019
SE470498 C	19940929	SE19920003063	19921019
SE9203063 A	19940420	SE19920003063D	19921019
SE9203063 A0	19921019	SE19920003063	19921019
SE9203063 L	19940420	SE19920003063	19921019

Priority:

SE19920003063 19921019

Probable Assignee:

GOERAN BRAMSELL

Assignee(s): (std):

GOERAN BRAMSELL

Inventor(s): (std):

BRAMSELL GOERAN

Inventor(s):

GOERAN BRAMSELL

21) Family number: 14950286 (WO9637753A1)

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Title: DEMINING SYSTEM

Abstract: The present invention relates to a demining system comprising a carrier vehicle (1) and a demining device (4) that operates in the ground in front of the vehicle and which device, driven by a motor mounted on the vehicle, rotates around a shaft (23) extending transversely and mainly horizontally to the vehicle. The purpose of the demining system in accordance with this invention is to clear large open areas of ground, including undulating terrain, from both buried and unburied mines. To achieve the necessary inclination of, and sufficient power to, the demining device it is powered by a motor mounted in the main beam across the vehicle which main beam connects the two longitudinal beams. The complete framework can then be laterally inclined and tilted relative to the vehicle (1) via a ball coupling (5) mounted close to the centre of gravity of the vehicle, while the lateral forces acting on the demining device are assimilated by a separate traverse steering unit (18-20) mounted between the demining device and the vehicle.

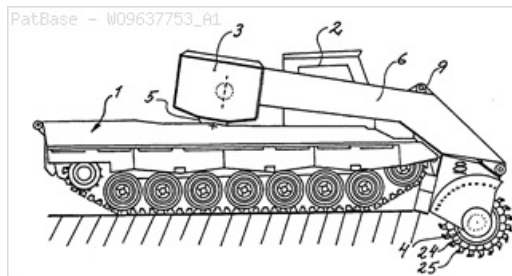
Classifications:

International (IPC 8-9): F41H11/16 (Advanced/Invention)

International (IPC 1-7): F41H11/16

CPC: F41H11/26

European: F41H11/26



Family:

Publication number	Publication date	Application number	Application date
SE505197 C2	19970714	SE19950001898	19950522
SE9501898 A	19961220	SE19950001898D	19950522
SE9501898 L	19961220	SE19950001898	19950522
WO9637753 A1	19961128	WO1996SE00656	19960521
WO9637753 C2	20001130	WO1996SE00656	19960521

Priority:

SE19950001898 19950522

Probable Assignee: BOFORS AB

Assignee(s): (std): BOFORS AB ; HAUGHOM KJELL JANN ; SWEDISH DE MINING AB ; SWEDISH DEMINING AB ; TONSTAD MASKINFABRIKK AS ; TONSTAD MASKINFABRIKK A S

Inventor(s): (std): HAUGHORN KJELL JANN ; HAUGHOM KJELL JANN

Inventor(s): KJELL JANN HAUGHORN

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

22) Family number: 29539292 (US5979289A)

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Title: Apparatus for and method of detonating mines

Abstract: PCT No. PCT/GB96/02030 Sec. 371 Date Apr. 13, 1998 Sec. 102(e) Date Apr. 13, 1998 PCT Filed Aug. 20, 1996 PCT Pub. No. WO97/08508 PCT Pub. Date Mar. 6, 1997An apparatus for and method of detonating unexploded mines is disclosed. A ground-engaging foot is caused to reciprocate by power means with sufficient force to activate an unexploded mine. Control means is used to control the manner of reciprocation of the foot by controlling the power applied to the foot. A shock absorption arrangement absorbs shock energy created upon detonation of an unexploding mine. Preferably the apparatus is vehicle mounted for example upon a remotely controlled tracked vehicle.

Classifications:

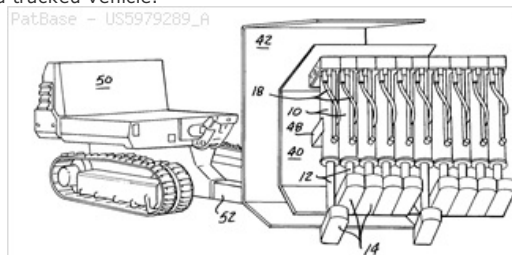
International (IPC 8-9): F41H11/16 (Advanced/Invention)

International (IPC 1-7): B63G9/00 B64D1/04 F41H11/16

CPC: F41H11/18

European: F41H11/18

US: 102/402 89/1.13



Family:

Publication number	Publication date	Application number	Application date
AT197643 E	20001215	AT19960928520T	19960820
AU199668255 A1	19970319	AU19960068255	19960820
AU715901 B2	20000210	AU19960068255	19960820
DE69610984 D1	20001221	DE19966010984	19960820
DE69610984 T2	20010523	DE19966010984T	19960820
DK0842388 T3	20001211	DK19960928520T	19960820
EP0842388 A1	19980520	EP19960928520	19960820
EP0842388 B1	20001115	EP19960928520	19960820
ES2153973 T3	20010316	ES19960928520T	19960820
GB9517345 A0	19951025	GB19950017345	19950824
GB9525527 A0	19960214	GB19950025527	19951214
GR3035248 T3	20010430	GR2001040068T	20010117
JP11512172 T2	19991019	JP19970509949T	19960816
PT842388 T	20010430	PT19960928520T	19960820
US5979289 A	19991109	US19980029355	19980413
WO9708508 A1	19970306	WO1996GB02030	19960820

Priority:

GB19950017345 19950824

GB19950025527 19951214

WO1996GB02030 19960820

Probable Assignee: J R FRENCH LTD

Assignee(s): (std): FRENCH JOHN R ; FRENCH JOHN ROBERT ; J R FRENCH LIMITED ; J R FRENCH LTD ; JOHN ROBERT FRENCH ; JR FRENCH LIMITED

Assignee(s): JR FRENCH LTD

Inventor(s): (std): FRENCH JOHN ROBERT ; JOHN ROBERT FRENCH

Agent(s): AHEARN FOX

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 LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO

23) Family number: 14274293 (FR2757622A)

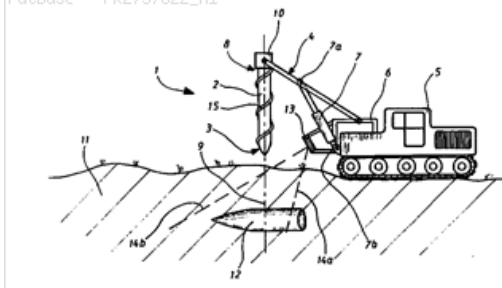
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Title: MACHINE FOR DESTRUCTION OF BURIED MUNITIONS

Abstract: The machine (1) has at least one soil auger formed as a cylindrical rod (2) with a longitudinal groove (16) which receives an explosive charge. The outer surface of the cylinder can be smooth. The cylinder can carry an external auger flute. The explosive charge can be a munition (17) with an exterior diameter slightly smaller than that of the auger to allow placing in the auger. The munition has a first connection. The munition has a coupling (29) allowing fixing with a ferrule (27) fixed at the level of the front end of the auger.

Classifications:**International (IPC 8-9):** F41H11/12 F41H11/16 (Advanced/Invention)**International (IPC 1-7):** F41H11/12 F42D5/04**CPC:** F41H11/12 F41H11/16 F42B33/06**European:** F41H11/12 F41H11/16

PatBase - FR2757622_A1

**Family:**

Publication number	Publication date	Application number	Application date
FR2757622 A1	19980626	FR19960015826	19961223
FR2757622 B1	19990205	FR19960015826	19961223

Priority:

FR19960015826 19961223

Probable Assignee: GIAT IND SA**Assignee(s):** (std): GIAT IND SA**Assignee(s):** GIAT INDUSTRIES ; GIAT IND**Inventor(s):** (std): HANOTAUX CHRISTIAN**24) Family number: 43856303** (CO6080086A)

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Title: MAQUINA MANUAL PARA ACTIVAR MINAS ANTIPERSONA SIN RIESGO DE MUERTE, MUTILACION O LESIONES GRAVES PARA EL OPERADOR
MANUAL MACHINE ON ANTI-PERSONNEL MINES FOR RISK OF DEATH, MUTILATION OR SERIOUS INJURY TO THE OPERATOR (Machine translation)

Abstract: Source: CO6080086A [ES] Maquina manual para activar minas antipersona sin riesgo de muerte, mutilacion o lesiones graves para el operador, caracterizada por explotar cualquier mina que se encuentre enterrada en el recorrido de la maquina y dentro del espacio entre los dos juegos de llantas por medio de los cuales se transporta, el cual es abarcado totalmente por las ruedas de explosion que ruedan libremente siempre en contacto con el piso, debido a su propio peso y/o con la presion de resortes adicionales. La maquina se desplaza por medio de dos juegos de llantas o ruedas, conformado cada uno por tres, cuya disposicion permite el desplazamiento por cualquier tipo de terreno, incluso puede subir escaleras. Los dos juegos de llantas van acoplados perpendicularmente al eje-base horizontal de 60 centimetros, al cual tambien se pueden acoplar otros modulos-eje para aumentar su longitud, y por ende, el ancho util de barrido de la maquina. En el eje-base y en cada modulo-eje, por medio de bisagras individuales y equidistantes, se apoyan en forma pivotante por uno de sus extremos, los ejes que portan en el otro extremo las ruedas de explosion. La maquina la impulsa y dirige un operario por medio de un manubrio instalado en el extremo de un tubo o pertiga, cuyo extremo opuesto va fijo en el centro del eje-base. Dos boquillas de aspercion fina, ubicadas en los extremos del eje-base donde se acoplan los juegos de llantas o ruedas, marcan con pintura sobre el piso el area barrida por la maquina. La pintura llega a las boquillas a traves de tuberia o manguera antiexplosivos, impulsada a presion desde un tanque ubicado sobre el eje-base o sobre la pertiga de manejo, de forma similar a como funciona una bomba aspersora de espalda. La maquina porta un escudo de lamina de policarbonato antibala y antiexplosivos acoplado a la pertiga de manejo, cerca al manubrio. **Machine translation:** Used to activate landmines manually without the risk of death, mutilation or serious injury to the operator, characterized by exploiting any mine that is buried in the path of the machine and into the space between the two sets of tires through of which it is transported, which is fully covered by the wheels rolling freely explosion always in contact with the floor, due to its own weight and / or additional pressure springs. The machine moves through two sets of tires or wheels, each comprised of three, whose disposition allows scrolling through any terrain, can even climb stairs. The two sets of wheels are coupled perpendicularly to the axis-base horizontal 60 cm, which also can be attached to other modules-axis increase its length, and therefore the useful swath width of the machine. In the shaft-base-axis in each module, through individual and equidistant hinge they are pivotally supported by one end, the shaft bearing at the other end wheels explosion. The machine's drives and directs an operator via a handle installed on the end of a pipe or pole, the opposite end is fixed to center-axis base. Two fine spray nozzles, located at the ends of the shaft-base where sets of tires or wheels are coupled, marked with paint on the floor the area swept by the machine. Paint to the nozzles through explosion-proof hose or pipe driven under pressure from a tank located on the axis-based or management on the pole, similar to a knapsack sprayer works. The machine carries a bulletproof shield sheet of polycarbonate and attached to the anti-explosive handling pole, near the handle.

Classifications:**International (IPC 8-9):** B60P3/00 (Advanced/Invention);

B60P3/00 (Core/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO6080086 A1	20090930	CO20080031309	20080331

Priority:

CO20080031309 20080331

Probable Assignee: ARBELAEZ MARTINEZ BERNARDO

Assignee(s): (std): ARBELAEZ MARTINEZ BERNARDO
Assignee(s): BERNARDO ARBELAEZ MARTINEZ
Inventor(s): (std): ARBELAEZ MARTINEZ BERNARDO
Inventor(s): BERNARDO ARBELAEZ MARTINEZ

25) Family number: 28116324 (US2001003946A)

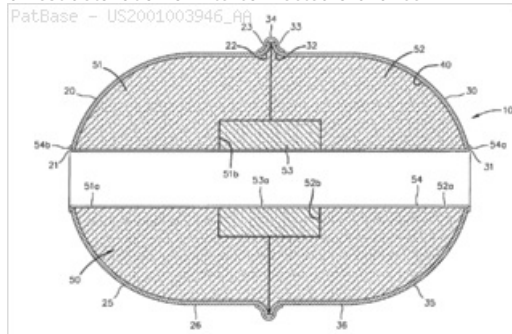
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Title: LINE CHARGE SYMPATHETIC DETONATION ARRESTOR

Abstract: A detonation arrestor cuts the detonating cord of a dud line charge to prevent the pressure wave from a nearby explosion from sympathetically detonating the dud line charge. A housing of the detonation arrestor has a transverse passageway to receive the detonating cord of the dud line charge and an axial bore intersecting the passageway. A cutter piston having a cutter blade is disposed in the bore and is sized to permit axial displacement by a shallow dish-shaped diaphragm spring. The diaphragm spring has its center adjacent to one end of the cutter piston and laterally extends from the bore to be secured to the housing along its round periphery in a sealed relationship. The diaphragm spring is formed in the configuration of a Belleville spring from a spring material providing strength, rigidity, and spring modulus to snap to an extended position when displaced to a position past an over center position by an impinging pressure wave. When the diaphragm spring is displaced by the impinging pressure wave to snap to the extended position, it axially displaces the cutter piston in the bore to cut the detonating cord with the cutter blade and arrest detonation of interconnected ordnance.

Classifications:

International (IPC 8-9): B63G7/02 F41H11/12 F41H11/14 F42B3/00 (Advanced/Invention); B63G7/00 F41H11/00 F42B3/00 (Core/Invention)
International (IPC 1-7): B21D39/02 B23P21/00 B63G7/02 B64D1/04 F41F5/00 F41H11/12 F42B7/02
CPC: Y10T29/49893 Y10T29/49954 Y10T29/53313 Y10T29/53978 B63G7/02 F41H11/12 F41H11/14 F42B3/00
European: B63G7/02 F41H11/12 F41H11/14 F42B3/00
US: 102/318 102/403 102/473 102/482 102/487 102/504 149/19.9 149/199 149/92 29/1.21 29/281.5 29/463 29/525.05 29/771 86/53 89/1.1 89/1.11 89/1.13 89/1.130P 89/1.34 89/11



Family:

Publication number	Publication date	Application number	Application date
US2001003946 AA	20010621	US20010770794	20010129
US5932835 A	19990803	US19970944049	19970912
US5959233 A	19990928	US19980034772	19980302
US6205903 BA	20010327	US19980012932	19980124
US6227095 BA	20010508	US19990288084	19990409
US6253450 BA	20010703	US19990257142	19990223
US6295911 BA	20011002	US19980146918	19980831
US6321630 BA	20011127	US20000536491	20000327
US6386086 BB	20020514	US20010770794	20010129

Priority:

US19970944049 19970912	US19980012932 19980124	US19980030518 19980217
US19980034772 19980302	US19980146918 19980831	US19990257142 19990223
US19990288084 19990409	US20000536491 20000327	US20010770794 20010129

Probable Assignee: NAVY US GOV SECRETARY AS

Assignee(s): (std): US NAVY

Assignee(s): SECRETAY OF NAVY AS US GOV ; SECRETAY OF NAVY US ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE ; THE UNITED STATES OF AMERICA REPRESENTED BY THE SE ; THE UNITED STATES OF AMERICA REPRESENTED BY THE SECRETARY OF THE NAVY ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY ; NAVY UNITED STATED OF AMERICA AS REPRESENTED BY SE ; NAVY UNITED STATED OF AMERICA REPRESENTED BY SECRE ; NAVY UNITED STATED OF AMERICA REPRESENTED BY SECRETARYT OF AS ; NAVY US GOV SECRETARY AS ; NAVY US GOV SECRETARY OF AS ; NAVY US GOV SECRETARY OF BALLSTON TOWER ONE AS ; NAVY US GOV SECRETARY OF THE AS ; NAVY US GOV SECRETARY OF THE CHIEF OF NAVAL RESEAR ; NAVY US SEC ; NAVY US SEC THE ; NAVY US SECRETARY ; SECRETARY OF NAVY AS US GOV ; SECRETARY OF NAVY US GOV

Inventor(s): (std): DOYLE CHRISTOPHER ; GARCIA FELIPE ; PIPKIN JOHN ; WOODALL ROBERT ; IRIZARRY GILBERTO

26) Family number: 23070342 (FR1317270A)

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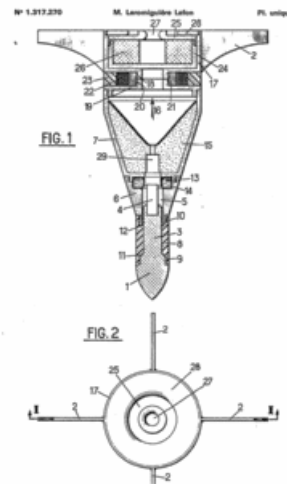
Title: MINE A POSE RAPIDE MINE A QUICK INSTALLATION (Machine translation)

Abstract: Source: FR1317270A [FR] (Claim 1) 1. L'extremite arriere offrant une grande resistance de penetration dans le sol a la forme d'un empennage et sert en meme temps a orienter convenablement le corps pendant sa chute;

Machine translation: (Claim 1) 1. The rear end with a high resistance to penetration into the soil in the shape of a tail and serves at the same time has properly orient the body during its fall;

Classifications:

International (IPC 8-9): F42B23/04 F42C11/00 F42C13/08 (Advanced/Invention); F42B23/00 F42C11/00 F42C13/00 (Core/Invention)
International (IPC 1-7): F42B23/04 F42B23/26 F42C13/08
CPC: F42B23/04 F42C11/007 F42C13/08
European: F42B23/04 F42C11/00B10 F42C13/08

**Family:**

Publication number	Publication date	Application number	Application date
FR1317270 A	19630208	FR19610883066	19611226

Priority:

FR19610883066 19611226

Inventor(s): (std) LAFON GUY ALEX HENRI LAROMIGUI**Inventor(s):** LAFON GUY ALEX HENRI LAROMIGUIERE**27) Family number: 15351351 (SE469067B)**

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Title: SELF-DRIVE, REMOTE-CONTROLLED CRAWLER-TYPE VEHICLE

Abstract: A self-drive, remote-controlled crawler-type vehicle, especially for drawing up equipment into poorly accessible and hazardous regions, comprising a vehicle body 1 and a drive belt 2 which runs around the vehicle body and substantially covers the whole of its width. The vehicle is characterized by a control device 3, comprising a control arm 4,5 disposed on each side of the vehicle body and manoeuvring members 6,7 which are arranged to guide either control arm 4,5 upon a signal from a remote control, into contact with the ground surface outside the drive belt in order to brake and possibly lift the one side of the vehicle. In addition, a towing device 8 for load is fixed to the vehicle body and comprises a rod, which extends behind the vehicle in an arc 9 with the centre of curvature in the midpoint of the vehicle, and a coupling device 10, which is disposed on the arc and is freely displaceable along it.

Classifications:

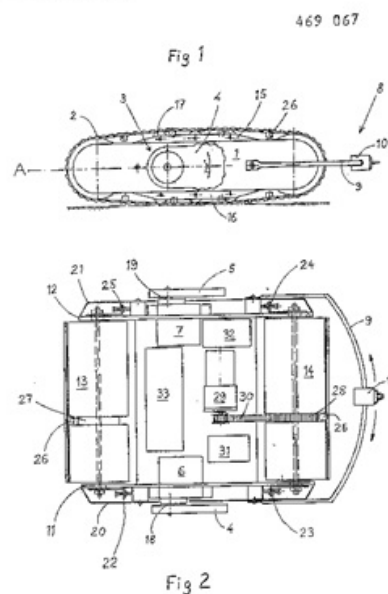
International (IPC 8-9): B25J5/00 B62D55/06 (Advanced/Invention);
B25J5/00 B62D55/00 (Core/Invention)

International (IPC 1-7): B25J5/00 B62D55/06

CPC: B25J5/005 B62D55/06

European: B25J5/00T B62D55/06

PatBase - SE469067_B

**Family:**

Publication number	Publication date	Application number	Application date
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SE469067 B	19930510	SE19900000902	19900314
SE469067 C	19930902	SE19900000902	19900314
SE9000902 A	19910915	SE19900000902	19900314
SE9000902 A0	19900314	SE19900000902	19900314
SE9000902 L	19910915	SE19900000902	19900314

Priority:

SE19900000902 19900314

Probable Assignee: JAN MELLQVIST

Assignee(s): (std): JAN MELLQVIST ; SVEN BERGH

Inventor(s): (std): BERGH SVEN ; JAN MELLQVIST ; MELLQVIST JAN ; SVEN BERGH

28) Family number: 34245356 (US2007044645A)

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Title: LANDMINE AVOIDANCE AND PROTECTION DEVICE

Abstract: A mine avoidance and protection device has a frame adapted to be secured to a source of a load, such as the foot of a person. Attached to the frame are at least three support legs each extending from the frame. Each leg has a releasable joint between the leg and the frame. At least one detector is operable to provide a detection capability for each support leg, operable to detect a characteristic of a mine when at least a portion of the support leg is located proximate to the mine. An actuator operable to provide an actuation capability at the joint of each leg, to: constrain the joint to allow a load to be transmitted from the frame, through the joint and the support to the terrain. The actuator can also release the joint such that a load can not be transmitted from the frame through the joint. The joint between the plate and each leg may be a one degree-of-freedom prismatic joint or revolute joint.

Classifications:

International (IPC 8-9): A43B1/08 A43B23/00 A43B3/00 F41F5/00 F41H1/00 F41H11/12 (Advanced/Invention);

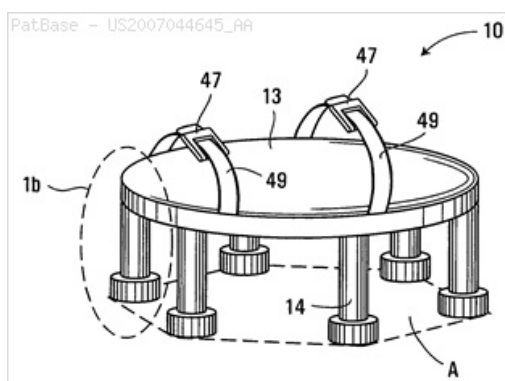
A43B1/00 A43B23/00 A43B3/00 F41F5/00 F41H1/00

F41H11/00 (Core/Invention)

CPC: A43B1/0054 A43B3/0005 A43B3/0026 F41H1/00 F41H11/13 F41H11/136

European: A43B1/00M A43B3/00E A43B3/00M F41H1/00

US: 102/402 36/136 36/72.00R 36/72R 89/1.13 89/1.130 89/11.3



Family:

Publication number	Publication date	Application number	Application date
US2007044645 AA	20070301	US20050212120	20050825
US7437986 BB	20081021	US20050212120	20050825
WO07024198 A1	20070301	WO2006SG00230	20060814

Priority:

US20050212120 20050825

Probable Assignee: NANYANG TECHNOLOGICAL UNIV

Assignee(s): (std): FUSS FRANZ K ; FUSS FRANZ KONSTANTIN ; TAN MING A ; TAN MING ADIN ; UNIV NANYANG

Assignee(s): NANYANG TECHNOLOGICAL UNIV ; NANYANG TECHNOLOGICAL UNIVERSITY

Inventor(s): (std): FUSS FRANZ K ; FUSS FRANZ KONSTANTIN ; TAN MING A ; TAN MING ADIN

Inventor(s): TAN MING ; FUSS FRANZ

Agent(s): DINSMORE AND SHOHL LLP, ONE DAYTON CENTRE; DINSMORE AND SHOHL LLP ONE DAYTON CENTRE; DINSMORE AND SHOHL 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 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 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

29) Family number: 6148377 (DD334397B)

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Title: SICHERUNGSEINRICHTUNG FUER DIE ZUENDKETTE EINES SPRENGGREIFERS

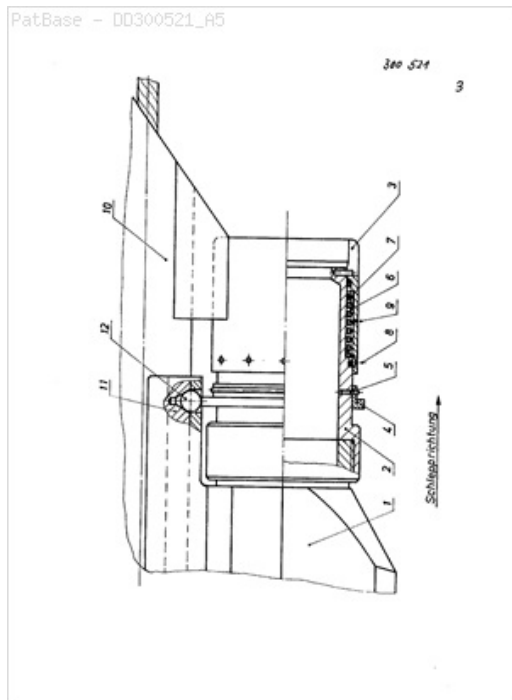
Abstract: Source: DD300521A [DE] [Source: Claim 1] 1 Seite Zeichnung **Machine translation:** [Source: claim 1] 1 page of drawing

Classifications:

International (IPC 8-9): B63G7/04 (Advanced/Invention);

B63G7/00 (Core/Invention)

International (IPC 1-7): B63G7/04

**Family:**

Publication number	Publication date	Application number	Application date
DD300521 A5	19920617	DD19890334397	19891109
DD334397 AB	19920507	DD19890334397	19891109
DD334397 B1	19920507	DD19890334397	19891109

Priority:

DD19890334397 19891109

Probable Assignee: PEENE WERFT WOLGAST VEB**Assignee(s):** (std): PEENE WERFT WOLGAST VEB**Assignee(s):** VEB PEENE WERFT WOLGAST**Inventor(s):** (std): GOETZEN CLAUD ; LEISTNER KLAUS ; SCHRADER JOACHIM**30) Family number: 25132386** (GB1215150A)

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Title: PROCESS AND APPARATUS FOR THE CONTROLLED FIRING OF EXPLOSIVE CHARGES AND AMMUNITION USING SAID APPARATUS

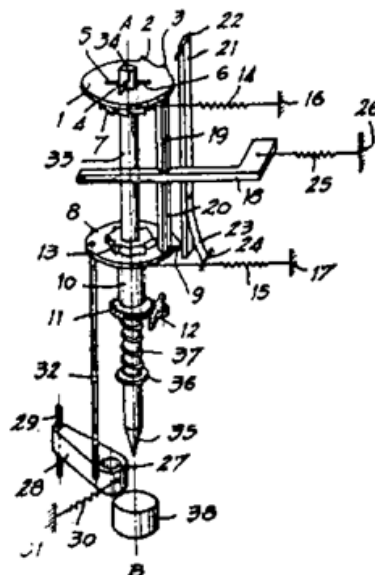
Abstract: 1,215,150. Firing explosive charges. POUDRERIES REUNIES DE BELGIQUE SOC. ANON. 14 Dec., 1967 [1 Feb., 1967], No. 56886/67. Heading F3A A method of establishing a pyrotechnic chain under the effect of a number of pulses comprises advancing a first member or group of members from a rest position in which the pyrotechnic chain is not established to a final work position where the chain is established, each step being executed in response to one of said pulses, and by means of a second member or group of members bringing said first member or group of members back to its rest position when the time interval between one of the pulses and an immediately succeeding pulse is greater than a predetermined time interval or allowing it to advance further to the final work position when the time interval between a pulse and an immediately succeeding pulse is less than the predetermined time interval. The advancing movement may be angular, rectilinear or mixed movement. A preferred apparatus for carrying out the method comprises an anti-tank mine fuze comprising a striker 33 held against the bias of a spring 37 by a pin 34 lying across slots 5 and 6 in a disc 1 provided with teeth 2 and 3 and a ratchet wheel 7; a second disc 8 having a tooth 9, a ratchet wheel 13, an extension 32 for simultaneously rotating a primer carrier 28, a hub 10 co-operating with an escapement mechanism 12; a stop 21 biased by a spring 23 about an axis 22; and a push rod 18 connected mechanically, electrically, magnetically, hydraulically c. to a drive sensitive to pulses, e.g. the head of a mine. In operation, at each pulse, the push simultaneously shifts the ratchet wheels and their associated discs clockwise whereby the extension 32 brings the primer 27 into line with the striker pin, and the slots 5 and 6 in the disc 1 are moved step by step into line with the pin 34 to free the striker, provided the time interval between one of the pulses and the immediately succeeding pulse is less than the time interval set by the device 12 for the return of the disc 8 to its initial position under the action of spring 15. During the arming movement of the disc 1, the disc is prevented from reverse movement to its initial position, under the action of spring 14, by engagement of the stop 21 with the teeth 2 or 3, until disc 8 returns to its initial position and lifts the stop clear of the teeth. The firing pin and primer can be replaced by an electric contact, a piezoelectric system or a magnet and moving core device. In another embodiment (Figs. 6-13, not shown) various elements in the fuze are replaced by mechanically equivalent elements.

Classifications:**International (IPC 8-9):** F42C 14/08 F42C 15/16 F42C 15/18 F42C 7/04 F42C 9/04 (Advanced/Invention);

F42C 14/00 F42C 15/00 F42C 7/00 F42C 9/00 (Core/Invention)

International (IPC 1-7): F41H F42B 23/18 F42B 23/26 F42B 23/28 F42C 15/14 F42C 15/16 F42C 15/18 F42C 7/00 F42C 7/02 F42C 9/02 F42C 9/04 F42C 9/14**CPC:** F42C 7/04 F42C 9/043 F42C 9/045 F42C 14/08 F42C 15/18 F42C 7/00**European:** F42C 14/08 F42C 15/18 F42C 7/00 F42C 7/04 F42C 9/04B2 F42C 9/04B4

FIG. 2

**Family:**

Publication number	Publication date	Application number	Application date
BE693472 A	19670717		19670201
CH491357 A	19700531	CH19670017429	19671211
DE1646372 A1	19710930	DE1967P043657	19671220
DE1646372 B2	19760513	DE1967P043657	19671220
DE1646372 C3	19761223	DE1967P043657	19671220
FR1548034 A	19681129	FR19670132729	19671218
GB1215150 A	19701209	GB19670056886	19671214
IL29362 A1	19720928	IL19680029362	19680123
NL133938 C	00000000		00000000
NL144388 B	19741216	NL19710017154	19711214
NL6716860 A	19680802	NL19670016860	19671212
NL7117154 A	19720327	NL19710017154	19711214
SE342504 B	19720207	SE19680001288	19680131

Priority:

BE19670046475 19670201 BE19670693472 19670201 BE19672046475 19670201
 NL19670016860 19671212 NL19710017154 19711214

Probable Assignee: PRB SA

Assignee(s): (std): PRB NV ; PRB SA ; S A PRB WOLUWE SAINT PIERRE BELGIEN ; S A P R B SOC ANONYME BRUSSEL

Assignee(s): S A P R B SOCIETE ANONYME BRUSSEL ; SA PRB ; S A PRB ; POUDRERIES REUNIES DE BELGIQUE ; POUDRERIES REUNIES DE BELGIQUE SOCIETE ANONYME

Inventor(s): (std): FLORENT JOSEPH RICHELLE HADELI ; JOSEPH RICHELLE HADELIN FLOREN ; RICHELLE H ; RICHELLE HADELIN FLORENT JOSEPH AGIMONT

Inventor(s): JOSEPH RICHELLE HADELIN FLORENT

Agent(s): REINHOLD COHN AND PARTNERS

31) Family number: 41897400 (HR20060075A)

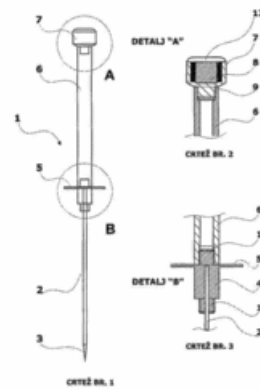
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Title: MINE PROBE WITH MAGNETIC END

Abstract: Source: HR20060075A [HR] Pipalica za razminiranje s magnetnim završetkom namijenjena je otkrivanju minsko-eksplozivnih sredstva i sakupljanju metalnih fragmenata razasutih potlu. Njezinom upotrebom ubrzava se skupljanje navedenih fragmenata. Pipalica (1) s magnetnim završetkom se sastoji od: štapa (2) s točkastim završetkom (3), drške (4), tijela (6), cepa (7) u kojemu se nalazi permanentni magnet (8) i poklopca (12). **Machine translation:** Pipalica for demining with magnetic closure is intended for exposing the mine-explosive assets and picking up metal fragments scattered potlu. Her using speeds up to collect the fragments. Pipalica (1) with magnetic ending consists of a cane: (2) The točkastim ending (3), handles (4), a body (6), tearing up (7) that contains the permanent magnet (8) And lid (12).

Classifications:

International (IPC 8-9): F41H11/136 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
HR20060075 A2	20080531	HR20060000075	20060220

Priority:

HR20060000075 20060220

Probable Assignee:

MAJETIC VJEKOSLAV

Assignee(s): (std):

MAJETIC VJEKOSLAV

Assignee(s):

VJEKOSLAV MAJETIC

Inventor(s): (std):

MAJETIC VJEKOSLAV

Inventor(s):

VJEKOSLAV MAJETIC

32) Family number: 43940411 (WO09130398A1)

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Title: PROTECTIVE DEVICE FOR THE CONTAINMENT OF EXPLOSIVE OBJECTS WITH HIGH VELOCITY FRAGMENTS

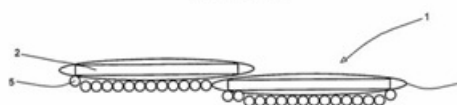
Abstract: A protective device (1) for the containment of explosive or potentially explosive objects, including at least one layer of anti-fragmentation fabric of which one end is positionable on a surface in such a way that it at least partially surrounds a suspicious object resting on the surface, a plurality of mutually movable anti-puncture plates (2) including a hot-pressed multilayer composite of polyethylene fibres and aramid fibres, and a plurality of sealed flexible vessels (5) capable of containing water and arranged on one side of the anti-puncture plates (2).

Classifications:**International (IPC 8-9):** F42D5/045 (Advanced/Invention);

F42D5/00 (Core/Invention)

CPC: F42D5/045**European:** F42D5/045

PatBase - WO09130398_A1

FIGURE 1**Family:**

Publication number	Publication date	Application number	Application date
WO09130398 A1	20091029	WO2008FR00601	20080425

Priority:

WO2008FR00601 20080425

Probable Assignee: SEMA**Assignee(s):** (std): LAUBIE CHARLES ; SEMA**Inventor(s):** (std): LAUBIE CHARLES**Agent(s):** DE KERNIER GABRIEL

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

33) Family number: 28927413 (US2003152186A)

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Abstract: Described herein are integrated systems for generating neutrons to perform a variety of tasks including: on-line analysis of bulk material and industrial process control (as shown in Fig. 1), security interrogation (as shown in Fig. 2), soil and environmental analysis, and medical diagnostic treatment. These systems are based on novel gas-target neutron generation which embodies the beneficial characteristics of replenishable fusible gas targets for very long lifetime, stability and continuous operation, combined with the advantageous features common to conventional accelerator neutron tubes including: on/off operation, hermetically sealed operation, and safe storage and transport. Innovative electron management techniques provide gas-target neutron production efficiencies that are comparable or surpass existing sources. The high-pressure high-resistance gaseous discharge is presented as a favorable gas-target neutron generator embodiment, combining ion source regions, accelerator regions, gas-target regions and electron management components within a single simple cost-effective device that is adaptable to various geometric configurations that provide specific neutron emission profiles for greater analysis capacity.

Classifications:

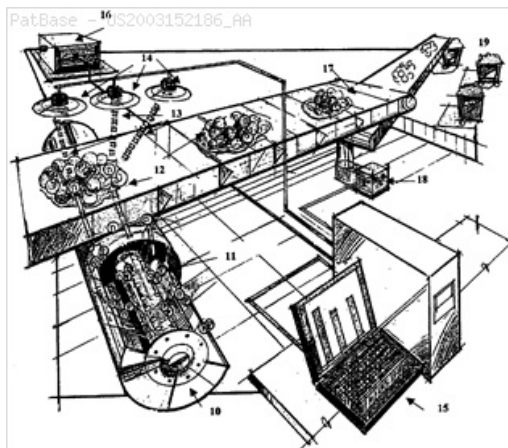
International (IPC 8-9): G21K5/04 H05H3/06 (Advanced/Invention); G21K5/04 H05H3/00 (Core/Invention)

International (IPC 1-7): G01N G21B1/00 G21J1/00

CPC: G21B1/19 G21K5/04 H05H3/06 Y02E30/16

European: Y02E30/16

US: 376/107 376/109 376/109P 376/144 376/145 378/134 378/136



Family:

Publication number	Publication date	Application number	Application date
AU2003253576 AA	20031110	AU20030253576	20030127
AU2003253576 AH	20031110	AU20030253576	20030127
US2003152186 AA	20030814	US20020058561	20020128
US6922455 BB	20050726	US20020058561	20020128
WO03091699 A2	20031106	WO2003US02313	20030127
WO03091699 A3	20050421	WO2003US02313	20030127

Priority:

US20020058561 20020128 WO2003US02313 20030127 WO2003US02313 20030127

Probable Assignee: STARFIRE IND MANAGEMENT INC

Assignee(s): (std): STARFIRE IND MAN INC ; STARFIRE INDUSTRIES MANAGEMENT INC

Assignee(s): STUBBERS ROBERT A ; STARFIRE IND MANAGEMENT INC ; STARFIRE INDUSTRIES ; DEMORA JOHN M ; JURCZYK BRIAN E ; STARFIRE IND

Inventor(s): (std): DEMORA JOHN M ; DEMORA JOHN M JR ; DEMORA JR JOHN M ; JOHN M ; JOHN M JR DEMORA ; BRIAN E JURCZYK ; JURCZYK BRIAN E ; ROBERT A STUBBERS ; STUBBERS ROBERT A

Inventor(s): DEMORA ; JR JOHN M

Agent(s): LEYDIG VOIT AND MAYER LTD

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 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 SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

34) Family number: 48736423 (OA12984A)

© PatBase

Title: Detecteur manuel de mines antipersonelles et antichar. Detector Manual and antitank mines antipersonelles. (Machine translation)

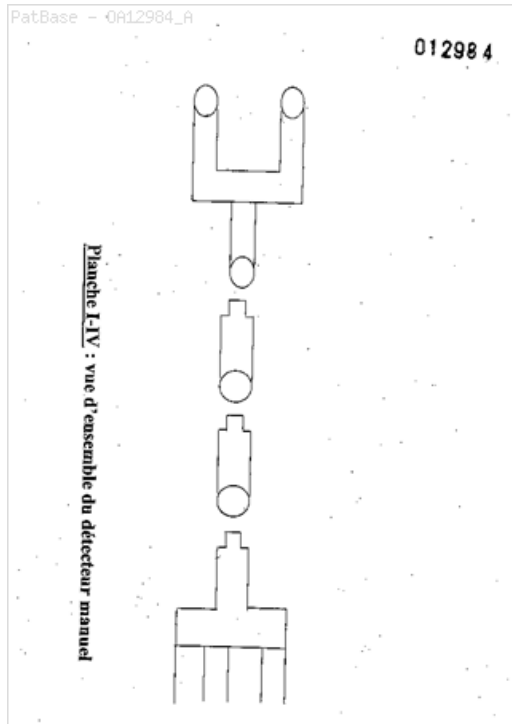
Abstract: Source: OA12984A [FR] [Source: Claim 1] 1. Detecteur manuel de mines antipersonnel et antichar enfouies dans le sol caracterise en ce qu'il ait un bras en cuivre ou fibre de verre termine par une fourche. 5 **Machine translation:** [Source: Claim 1] 1. Detector manual antitank and antipersonnel mines buried in the soil characterizes in that it has a copper or fiberglass arm ends with a fork. 5

Classifications:

International (IPC 8-9): F41H11/12 (Advanced/Invention)

CPC: F41H11/12

European: F41H11/12



Family:

Publication number	Publication date	Application number	Application date
OA12984 A	20061013	OA20041000028	20040115

Priority:

OA20041000028 20040115

Probable Assignee:

GANa NGOM

Assignee(s): (std):

GANa NGOM

Inventor(s): (std):

GANa NGOM

35) Family number: 33124440 (US2006161405A)

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Title: METHODS FOR LOCATING TARGETS AND SIMMULATING MINE DETECTION VIA A COGNITIVE, SWARM INTELLIGENCE-BASED APPROACH

Abstract: A method is provided for locating targets dispersed within a target field, whereby a plurality of like robotic scouts are provided for transmitting and receiving target detection signals, and for following a received signal's intensity gradient. The target field is foraged by the scouts according to a navigation scheme which entails stochastically navigating the terrain prior to receipt of a target detection signal, and deterministically navigating the terrain following receipt of the target detection signal, whereby an intensity gradient is followed until the selected target is located. Once located, a scout remains at the selected target until either a selected time duration elapses or a requisite number of other scouts arrive. A method is also provided for emulating detection and diffusion of mines within a mine field, with the same being simulated on a computer system's display device.

Classifications:

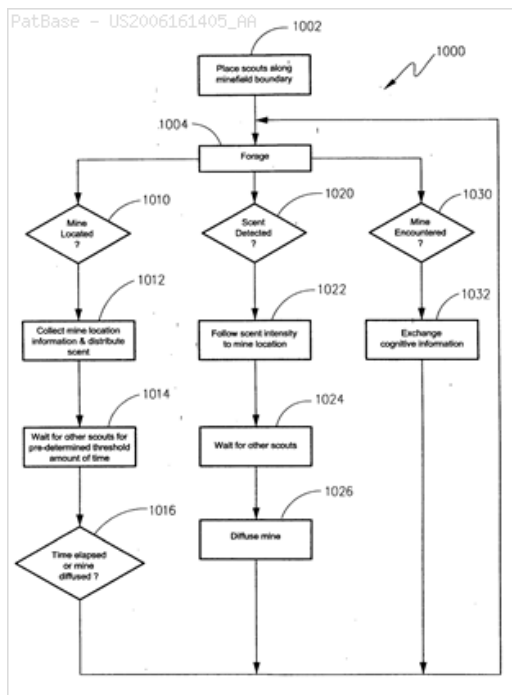
International (IPC 8-9): G06G7/48 (Advanced/Invention);

G06G7/00 (Core/Invention)

CPC: G06N3/008

European: G06N3/00L3

US: 703/6



Family:

Publication number	Publication date	Application number	Application date
US2006161405 AA	20060720	US20040862059	20040604

Priority:

US20040862059 20040604

Probable Assignee: SYTEX INC**Assignee(s): (std):** MUNIRAJAN VIGNESH K**Assignee(s):** SYTEX INC ; CITIBANK NA**Inventor(s): (std):** MUNIRAJAN VIGNESH K**Inventor(s):** MUNIRAJAN VIGNESH ; MUNIRAJAN VIGNESH KUMAR**Agent(s):** MARTIN AND HENSON PC**36) Family number: 45549443 (WO10069533A1)**

© PatBase

Title: SYSTEM FOR THE MINE SAFE INTEGRATION OF COMMERCIALY AVAILABLE SEATS

Abstract: The invention relates to a seat (1), comprising a framework (2) that can be fastened rigidly by means of belts or crash elements at the top, to a roof, and by way of belts (4) at the bottom, to a floor (11) in accordance with the anticipated mine load, for receiving a conventional seat (5) that has dedicated adjustment options and/or functional actuators.

Classifications:

International (IPC 8-9): B60N2/02 B60N2/06 B60N2/16 B60N2/22 B60N2/24 B60N2/42 B60R11/02 (Advanced/Invention); B60N2/02 B60N2/06 B60N2/16 B60N2/22 B60N2/24 B60N2/42 B60R11/02 (Core/Invention)

CPC: B60N2/0224 B60N2/0284 B60N2/06 B60N2/16 B60N2/22 B60N2/24 B60N2/4242 B60R11/0235 B60R11/0264 B60R2011/0015 B60R2011/0052 F41H7/046

European: B60N2/02B B60N2/02D B60N2/06 B60N2/16 B60N2/22 B60N2/24 B60N2/42D6 B60R11/02E2 B60R11/02P L60R11/00P1F4 L60R11/00R4A1

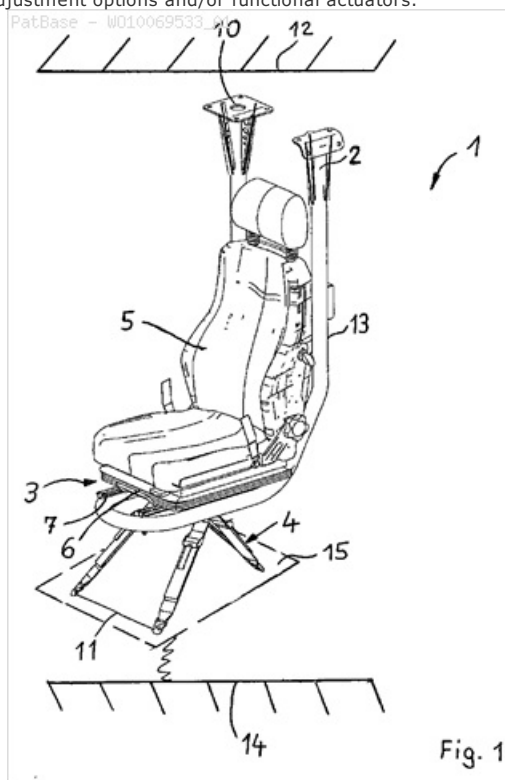


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE102008063804 A1	20100701	DE200810063804	20081219
DK2373519 T3	20170821	DK20090795703T	20091214
EP2373519 A1	20111012	EP20090795703	20091214
EP2373519 B1	20170531	EP20090795703	20091214
TR201710922 T4	20170821	TR20170010922T	20091214
WO10069533 A1	20100624	WO2009EP08933	20091214

Priority:

DE200810063804 20081219 EP20090795703 20091214 WO2009EP08933 20091214

Probable Assignee: RHEINMETALL LANDSYSTEME GMBH**Assignee(s): (std):** GERLACH KLAUS PETER ; OESTREICHER MARTIN ; RHEINMETALL LANDSYSTEME GMBH ; WEIBER ANDREAS**Inventor(s): (std):** GERLACH KLAUS PETER ; WEIBER ANDREAS ; OESTREICHER MARTIN**Inventor(s):** ANDREAS WEIBER ; KLAUS PETER GERLACH ; MARTIN OESTREICHER**Agent(s):** DIETRICH BARBARA; HORN KLEIMANN WAITZHOFFER PATENTANWAELTE PARTG MBB; UGUR GUERSAD YALCINER

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 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 PE 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

Title: RADIATION-MONITORING DIAGNOSTIC HODOSCOPE SYSTEM FOR NUCLEAR-POWER REACTORS

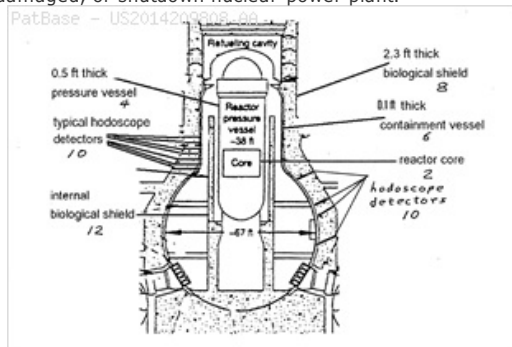
Abstract: A radiation-monitoring diagnostic hodoscope system for producing an approximate image of radiation-detecting components within or external to a pressure vessel of an operating, damaged, or shutdown nuclear-power plant.

Classifications:

International (IPC 8-9): A61N5/10 G01T1/00 G01T1/16 G01T1/20 G01T1/24 G01T1/29 G01T3/00 G01T3/06 G01T7/00 G21C17/00 G21D1/00 (Advanced/Invention)

CPC: G01T3/06 G01N23/05 H01L31/115 G01F23/2885 G21C17/00 G01T3/00 G01T1/006 G01T1/2921 G01T7/00 G21D1/00 Y02E30/40

US: 1/1 250/336.1 250/368 250/370.09 250/390.1 250/394



Family:

Publication number	Publication date	Application number	Application date
US2014209808 AA	20140731	US20130815070	20130128
US2015060686 AA	20150305	US20130987800	20130904
US8946645 BB	20150203	US20130815070	20130128
US9268043 BB	20160223	US20130987800	20130904
WO15034958 A1	20150312	WO2014US53949	20140903

Priority:

US20120632763P 20120130 US20120744473P 20120927 US20130815070 20130128
US20130855135P 20130614 US20130987800 20130904

Probable Assignee: NUCLEAR APPLICATIONS LLC

Assignee(s): (std): DE VOLPI ALEXANDER ; DEVOLPI ALEXANDER ; NUCLEAR APPLIC LLC

Assignee(s): NUCLEAR APPLICATIONS LLC

Inventor(s): (std): DE VOLPI ALEXANDER ; DEVOLPI ALEXANDER

Agent(s): JOHN R; ROSS JOHN R 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 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

Title: METHOD FOR DATA TRANSMISSION AND DEVICE FOR SUCH A METHOD

Abstract: The method involves transmitting data between electronic control cases (3, 4), under coded light signal form through a transparent face (7) e.g. windshield, of a vehicle e.g. armored car. The signal is transmitted in a frequency band situated outside visible spectrum. Optical transmitters/receivers (8, 9) are placed on both sides of the face to exchange the signal through the face. An independent claim is also included for a data transmitting device.

Classifications:

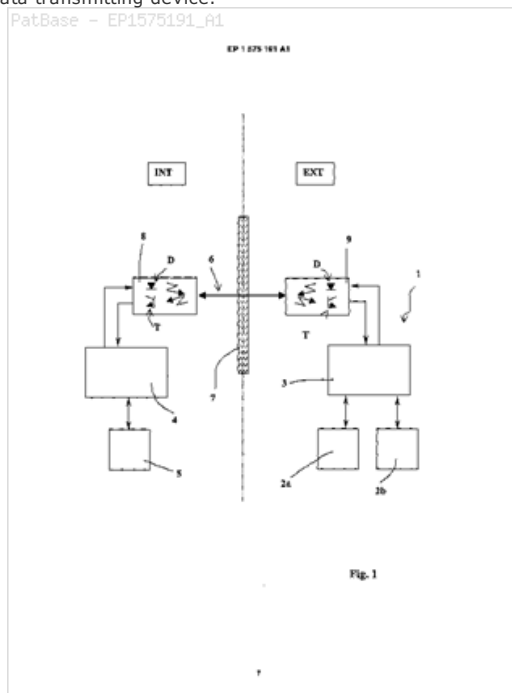
International (IPC 8-9): F41H7/02 H04B10/00 H04B10/02 H04B10/80 (Advanced/Invention);

F41H7/00 H04B10/00 H04B10/02 (Core/Invention)

International (IPC 1-7): F41H7/02 H04B10/00 H04B10/02

CPC: H04B10/801

European: H04B10/801



Family:

Publication number	Publication date	Application number	Application date
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EP1575191 A1	20050914	EP20050290461	20050302
FR2867634 A1	20050916	FR20040002668	20040312
FR2867634 B1	20080704	FR20040002668	20040312

Priority:

FR20040002668 20040312

Probable Assignee: NEXTER SYSTEMS

Assignee(s): (std): GIAT IND SA

Assignee(s): GIAT INDUSTRIES ; NEXTER SYSTEMS ; GIAT IND

Inventor(s): (std): LAINE LOIC ; LAINE LOIC M

Inventor(s): LOIC LAINE

Agent(s): NEXTER SYSTEMS

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

39) Family number: 50951490 (US2015065363A)

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Title: BIOMIMETIC CHEMICAL SENSORS USING NANO-ELECTRONIC READOUT OF OLFACTORY RECEPTORS

Abstract: The present invention provides biomimetic sensor devices that utilize proteins-such as G-protein coupled receptors-and are useful in high-sensitivity analysis of analyte-containing samples. These sensors may be used to determine the presence or concentration of one or more analytes in a sample. The invention also includes methods of fabricating the devices and methods of using the devices to assay samples.

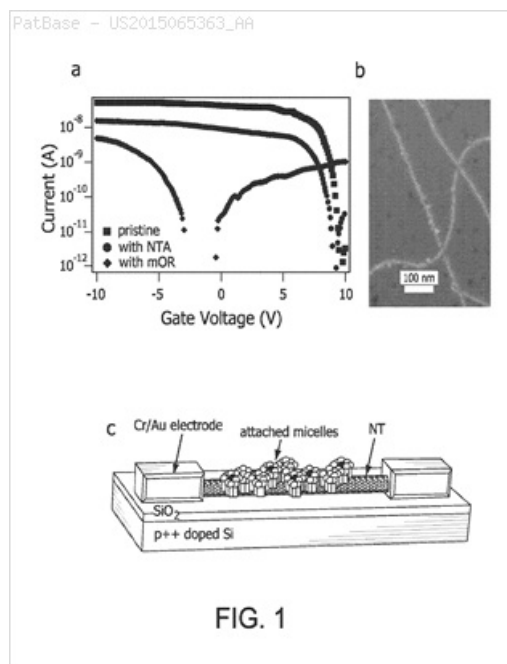
Classifications:

International (IPC 8-9): G01N27/26 G01N33/53 G01N33/543 G01N33/554 G01N33/68 G06F19/28 H01L21/00 H01L23/00 (Advanced/Invention)

CPC: G01N2333/726 G01N33/554 G01N33/6842 G01N33/6872 G01N33/5432 G01N33/54353 G01N33/5438 G16B50/00

European: G01N33/543K2B G01N33/554 S01N333/72B

US: 422/82.02 436/501 506/9



Family:

Publication number	Publication date	Application number	Application date
US2015065363 AA	20150305	US20110807323	20110629
US2017299602 AA	20171019	US20160353118	20161116
US9612240 BB	20170404	US20110807323	20110629
WO12050646 A2	20120419	WO2011US42290	20110629
WO12050646 A3	20121004	WO2011US42290	20110629
WO12050646 A9	20120712	WO2011US42290	20110629

Priority:

US20100359414P 20100629 US20110807323 20110629 WO2011US42290 20110629
US20130807323 20130814 US20160353118 20161116

Probable Assignee: BOARD OF TRUSTEES OF UNIV OF ILLINOIS

Assignee(s): (std): DISCHER BOHDANA ; GOLDSMITH BRETT R ; JOHNSON ALAN T JR ; UNIV ILLINOIS ; SLIGAR STEPHEN G ; UNIV PENNSYLVANIA ; MITALA JOSEPH J JR ; TRUSTEES OF UNIV OF PENNSYLVANIA ; BAYBURT TIMOTHY H ; MITALA JR JOSEPH J ; JOHNSON JR ALAN T

Assignee(s): BOARD OF TRUSTEES OF UNIV OF ILLINOIS ; THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS ; THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

Inventor(s): (std): DISCHER BOHDANA ; BAYBURT TIMOTHY H ; GOLDSMITH BRETT R ; SLIGAR STEPHEN G ; MITALA JOSEPH J JR ; JOHNSON ALAN T JR ; JOHNSON JR ALAN T ; MITALA JR JOSEPH J

Agent(s): BAKER AND HOSTETLER LLP; RABINOWITZ AARON B ET AL

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

Title: COUNTER-MINING USING LASER INDUCED PRESSURE WAVE

Abstract: Buried land mines, which are triggered by pressure, particularly anti-personnel mines which are triggered by the pressure of a person's foot, are destroyed by impinging laser beam pulses on the surface of the soil. With appropriately chosen beam parameters, a laser supported detonation is created in the atmosphere above the soil by each beam pulse impingement. That results in a blast wave within the soil, the pressure of which causes a mine trigger to explode the mine. A multiplicity of beam pulses are impinged on the soil surface in location- and time-coordination, to create a multiplicity of blast waves which provide pressure-time profiles within the shallow depth of the soil, sufficient to trigger mine types that are configured to resist triggering from a single detonation, whether induced by laser or chemical means.

Classifications:

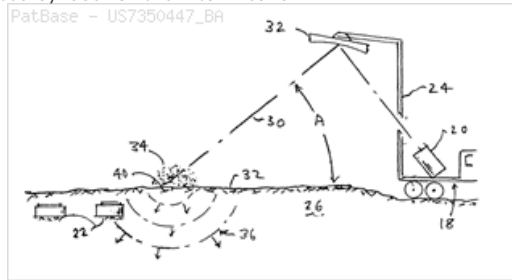
International (IPC 8-9): F41H11/16 (Advanced/Invention);

F41H11/00 (Core/Invention)

CPC: F41H11/16 F41H11/32 F41H13/0062

European: F41H11/16 F41H13/00F2D

US: 102/403 89/1.13 89/11.3



Family:

Publication number	Publication date	Application number	Application date
US7350447 BA	20080401	US20040995832	20041123

Priority:

US20040995832 20041123

Probable Assignee:

SMITH DAVID C

Assignee(s): (std):

SMITH DAVID C

Inventor(s): (std):

SMITH DAVID C

Agent(s):

NESSLER C; C

Title: SYSTEM WITH DIRECTIVE X-RAYS EMISSION CAPABLE OF EXERCISING AN ACTION ON A REMOTE TARGET

Abstract: The system has an electron source (101) employed to carry out an X-ray orientable source (102). An air-conditioning device (103) is placed at an outlet of the X-ray orientable source to form an X-ray directing beam (110). Energy of photons emitted by the orientable source is chosen according to the distance from the transmitter to the target so as to maximize the coupling between emitted X-rays and materials constituting the target. The X-ray orientable source emits photons whose energy lies between 50 kiloelectron volt (keV) and 60 keV. Independent claims are also included for the following: (1) a process for sampling of a distant target employing a transmitting system (2) a process for detection of remote explosives.

Classifications:

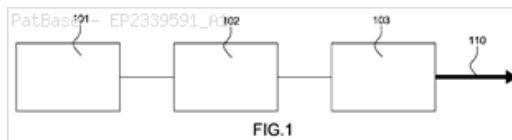
International (IPC 8-9): F41G3/00 G01N23/203 G21K1/06 G21K5/04

H05G2/00 (Advanced/Invention);

G01N23/00 (Advanced/Non-invention)

CPC: F41H11/12 G21K2201/06 H01J2235/00

European: F41H11/12 S21K201/06 T01J235/00



Family:

Publication number	Publication date	Application number	Application date
EP2339591 A1	20110629	EP20100196488	20101222
FR2954665 A1	20110624	FR20090006270	20091223
FR2954665 B1	20120817	FR20090006270	20091223

Priority:

FR20090006270 20091223

Probable Assignee: THALES SA

Assignee(s): (std): THALES SA

Assignee(s): THALES

Inventor(s): (std): BRASILE JEAN PIERRE

Inventor(s): JEAN PIERRE BRASILE

Agent(s): DUDOUIT ISABELLE ET AL; MARKS AND CLERK FRANCE

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

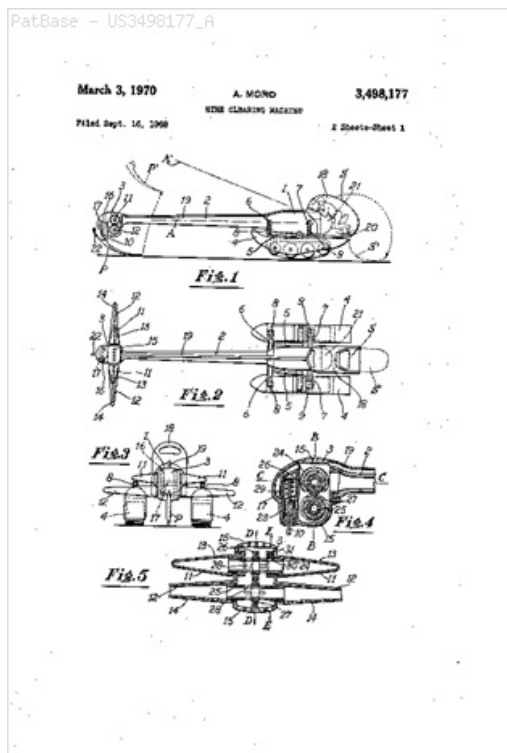
Title: MINE CLEARING MACHINE

Abstract: ABSTRACT OF THE DISCLOSURE

The mine clearing machine substantially consists of a gas generator (for example rocket or turbojet engine), throwing through a barrel its gas stream into a head assembly, having proper devices in order to produce, by controls, on the ground, with the said gas stream, a curtain of pressure of a certain breadth, capable to blow up the mines and thus to open, advancing, a corresponding passage in the mine field. This gas generator, with its barrel and the said head assembly, is supported by a pair of free-tracks, as all the movements and the maneuvers of this machine are effected in virtue of the thrust of the same gas stream, suitably shared, regulated and directed by the above said devices and controls. 25 B

Classifications:

International (IPC 8-9): F41H11/16 (Advanced/Invention)
International (IPC 1-7): F41H11/12
CPC: F41H11/32 F41H11/16
European: F41H11/16
US: 180/7.3 89/1 89/1.13



Family:

Publication number	Publication date	Application number	Application date
DE1800965 A1	19690430	DE19681800965	19681003
FR1583368 A	19691024		19680926
GB1181200 A	19700211	GB19680044247	19680918
US3498177 A	19700303	US19680759887	19680916

Priority:

IT19670039810 19671003

Probable Assignee:

MORO ALBERTO

Assignee(s): (std):

ALBERTO MORO ; MORO ALBERTO

Inventor(s): (std):

MORO ALBERTO

Inventor(s):

ALBERTO MORO

43) Family number: 49863528 (US8047117B)

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Title: COMPOSITE BLAST WAVE ATTENUATORS FOR BOOTS

Abstract: A blast wave attenuator comprising: a deflector and a foam or foamed composite inside of the deflector. The foamed composite may be a combination of fabrics, fibers, and small reinforcements embedded in a polymeric foam matrix. The foamed composites can be fabricated using a one-step process. The deflector can be manufactured from metal sheets including but not limited to titanium, stainless steel, carbon steel, and superalloys. The blast wave attenuator of the present invention greatly improves the impact resistance and protection of blast protective footwear and combat boots or the like without sacrificing traction or mobility.

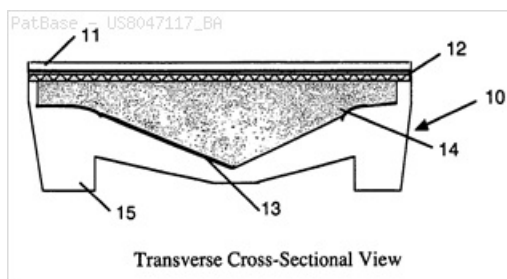
Classifications:

International (IPC 8-9): F41H5/08 (Advanced/Invention)

CPC: F41H1/00 A43B3/0026

European: A43B3/00M F41H1/00

US: 36/73 89/36.02 89/36.05



Family:

Publication number	Publication date	Application number	Application date
US8047117 BA	20111101	US20070787095	20070413

Priority:

US20070787095 20070413

Probable Assignee: WRIGHT MATERIALS RESEARCH CO

Assignee(s): (std): WRIGHT MATERIALS RES COMPANY

Assignee(s): WRIGHT MATERIALS RESEARCH CO ; WRIGHT MATERIALS RESEARCH COMPANY

Inventor(s): (std): TAN SENG

Title: Remotely-controlled vehicle for inspection and intervention in hostile environments.

Abstract: A vehicle remotely controlled by cable or radio comprising, in addition to means of supply, of electrical and/or electronic control, of measurement and of various manipulations, at least one main chassis (2) equipped with a pair of caterpillar tracks (5, 5'), each turning on at least two sprocket wheels (6, 7 and 6', 7'), characterised in that the main chassis (2) consisting of two parallel longerons (9, 9') held at a distance by strut members (11) is equipped with at least two pairs of sprocket wheels (6, 6' and 7, 7') joined together by a hollow axle (15, 17), which comprise integrally in each one of the two sprocket wheels forming a pair (6', 7) and this being in sprocket wheels corresponding to opposite sides, a motor, a reducer gear and a brake (13, 15) and in that the said main chassis (2) is equipped with a device for measuring the inclination (280) of the main chassis in relation to the horizontal direction.

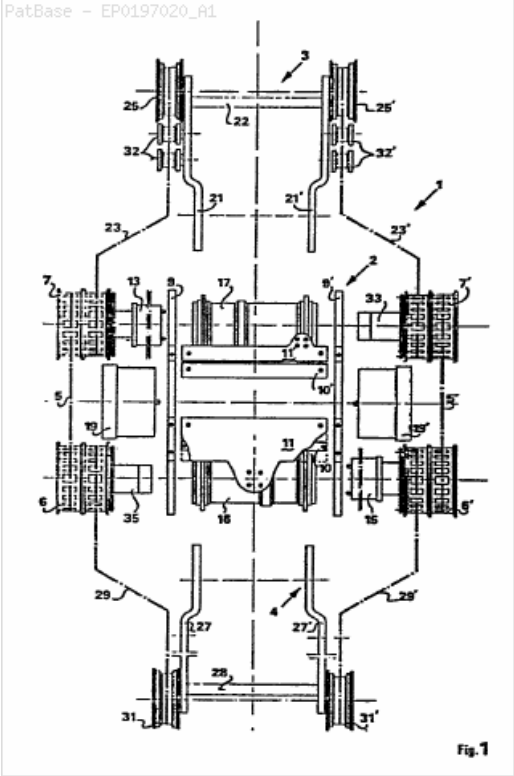
Classifications:

International (IPC 8-9): B25J5/00 B62D55/065 B62D55/075 F41H11/16 G21C17/013 (Advanced/Invention)

International (IPC 1-7): B25J5/00 G21C17/00

CPC: B25J5/005 B62D55/065 B62D55/075 F41H11/16 F41H11/28 G21C17/013

European: B25J5/00T B62D55/065 B62D55/075 F41H11/16 F41H11/28 G21C17/013



Family:

Publication number	Publication date	Application number	Application date
EP0197020 A1	19861008	EP19860870029	19860307

Priority:

EP19850102712 19850309

Probable Assignee: ACEC

Assignee(s): (std): ACEC

Assignee(s): ACEC SOCIETE ANONYME

Inventor(s): (std): PINSMAILLE RAYMOND ; DUCHENE ALAIN ; DA COSTA CABRAL GAIVAO LUIS ; COLARD DOMINIQUE

Designated states: AT BE CH DE FR GB IT LI LU NL SE

Title: DETECTION OF TRINITROTOLUENE

Abstract: An ultrasensitive method for detecting analytes in a sample is provided. The method involves the use of a matrix of nanoparticles which are associated with recognition groups capable of undergoing interaction with the analyte.

Classifications:

International (IPC 8-9): G01N G01N27/00 G01N27/12 G01N33/00 G01N33/22 (Advanced/Invention);

B82Y30/00 (Advanced/Non-invention);

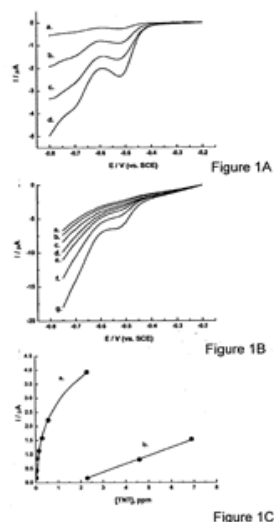
G01N27/12 G01N33/00 G01N33/22 (Core/Invention);

G01N (Subclass/Invention)

CPC: Y10T436/173076 G01N2600/00 G01N33/0057

European: B82Y15/00 G01N33/00D2D4M S01N600/00

US: 422/82.02 422/82.020S 436/110 436/110P 977/773 977/773S

**Family:**

Publication number	Publication date	Application number	Application date
EP2304415 A2	20110406	EP20090773050	20090630
IL199354 A0	20100328	IL20090199354	20090615
IL210339 A0	20110331	IL20090210339	20090630
US2011177606 AA	20110721	US20090001972	20090630
WO10001395 A2	20100107	WO2009IL00656	20090630
WO10001395 A3	20100610	WO2009IL00656	20090630

Priority:

US20080076970P 20080630 IL20090199354 20090615 WO2009IL00656 20090630
 US20090001972 20090630 IL20100210339 20101229

Probable Assignee: YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM LTD

Assignee(s): (std): RISKIN MICHAEL ; TEL VERED RAN ; WILLNER ITAMAR ; YISSUM RES DEV CO

Assignee(s): YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF J ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREWUNIVERSITY OF JERUSALEM LTD

Inventor(s): (std): RISKIN MICHAEL ; TEL VERED RAN ; WILLNER ITAMAR

Agent(s): MINOJA FABRIZIO; REINHOLD COHN AND PARTNERS

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 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 PE 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

46) Family number: 30134577 (US2004000227A)

© PatBase

Title: MACHINE FOR CLEARING LAND MINES

Abstract: A self contained, affordable, riding operator controlled machine for safely discharging land mines in farm lands and other accessible areas. The operator is well protected by heavy steel plates and sits 10 feet behind the mine discharge. The mine explosion is directed away from the operator. The heavy steel structure of the machine is designed to withstand the explosive force of anti-personnel land mines. Should an anti-tank mine be encountered, some damage would probably occur, but the operator should be unharmed. The machine (prototype) is designed to clear a 4 foot wide path and clear 1 acre in 2 to 4 hours depending upon the ground conditions. If desired, the described machine could be remotely operated. Such operation would be desired where anti-tank mines or heavy concentration of unexploded ordinance is anticipated.

Classifications:

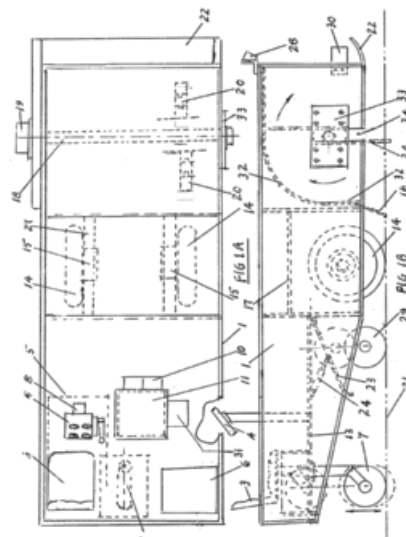
International (IPC 8-9): F41H11/16 (Advanced/Invention);
 F41H11/00 (Core/Invention)

International (IPC 1-7): B64D1/04 F41F5/00

CPC: F41H11/18

European: F41H11/18

US: 89/1.13 89/1.130P

**Family:**

Publication number	Publication date	Application number	Application date
US2004000227 AA	20040101	US20030384234	20030310

Priority:

US20020362919P 20020311 US20030384234 20030310

Probable Assignee:

EINSTEIN HARRY

Assignee(s):

EINSTEIN HARRY

Inventor(s): (std):

EINSTEIN HARRY

47) Family number: 571582 (DE2127444A1)

© PatBase

Abstract: Source: DE2127444A1 [DE] (Claim 1) Patentansprueche W Splittergebende Landmine, welche insbesondere in grossen Stueckzahlen von einem Raketengefechtskopf oder Flugzeug aus verlegt wird, g e k e n n z e i c h n e t durch eine rollfaehige, insbeson dere linsen- bzwo brotlaib- oder radfoermige Spreng ladung (2; 22) st einer zu der bzw.

Machine translation: (Claim 1) Claims west split resulting landmine, which is laid in particular in large numbers from a missile warhead or an aircraft characterized by a rollable, particularly lenticular or loaf-shaped explosive charge (2, 22) st one to whom or

Classifications:

International (IPC 8-9): F42B12/32 F42B23/10 (Advanced/Invention); F42B12/02 F42B23/00 (Core/Invention)

International (IPC 1-7): F42B13/48 F42B23/10

CPC: F42B12/32 F42B23/10

European: F42B12/32 F42B23/10

PatBase - DE2127444_A1

72-8 17-08 AT: 05.05.1971 44 07: 14.12.1972 2127444

Fig. 1

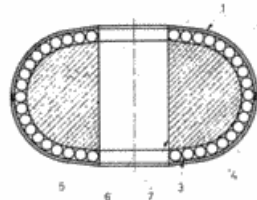
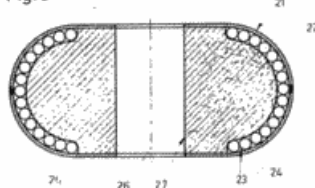


Fig. 3



209851/0363

ORIGINAL INSPECTED

Family:

Publication number	Publication date	Application number	Application date
DE2127444 A1	19721214	DE19712127444	19710603

Priority:

DE19712127444 19710603

48) Family number: 33688604 (US2006254522A)

© PatBase

Title: OPTICAL DETECTION OF OSCILLATING TARGETS USING MODULATION OF SCATTERED LASER LIGHT

Abstract: The present invention provides systems and methods using a temporal-frequency sensitive receiver to detect laser light that is scattered by an oscillating object, thereby allowing remote monitoring of the object's position and movement.

Classifications:

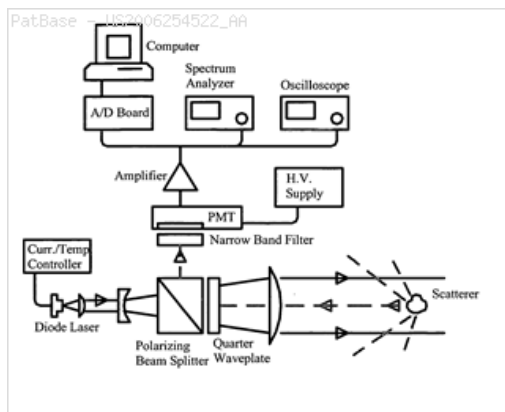
International (IPC 8-9): A01K29/00 G08B23/00 (Advanced/Invention);

A01K29/00 G08B23/00 (Core/Invention)

CPC: A01K29/005 G01S7/4802 G01S17/88

European: A01K29/00B G01S17/88 G01S7/48A

US: 119/6.5 250/221 340/573.1 340/573.2 702/5



Family:

Publication number	Publication date	Application number	Application date
US2006254522 AA	20061116	US20060338806	20060125
US7511624 BB	20090331	US20060338806	20060125

Priority:

US20050646490P 20050125 US20060338806 20060125

Probable Assignee: MONTANA STATE UNIV

Assignee(s): (std): REPASKY KEVIN A ; SHAW JOSEPH A ; SPANGLER LEE H ; UNIV MONTANA STATE ; CARLSTEN JOHN A

Assignee(s): MONTANA STATE UNIV ; MONTANA STATE UNIVERSITY

Inventor(s): (std): CARLSTEN JOHN A ; REPASKY KEVIN A ; SPANGLER LEE H ; REPASKY KEVIN S ; HOFFMAN DAVID S ; CARLSTEN JOHN L ; SHAW JOSEPH A

Inventor(s): SPANGLER LEE ; CARLSTEN JOHN ; SHAW JOSEPH ; REPASKY KEVIN

Agent(s): COOLEY GODWARD LLP; COOLEY GODWARD KRONISH LLP

49) Family number: 11726607 (US2006249385A)

© PatBase

Title: CHEMICAL SENSING APPARATUS

Abstract: In an improved amperometric gas sensor, the structure, composition, and electrode potential are adjusted so as to prevent or minimize any unwanted reactivity at the counter and/or reference electrode of any analyte or interfering component of the matrix that may cross over thereto. The sensor is preferably structured so that the product of the analyte reaction at a first working electrode can be reconverted to the original analyte at a counter electrode or at a second working electrode and then reacted again at the first working electrode, with such back-and-forth reactions repeating many times, so as to yield an amplification of the analyte signal.

Classifications:

International (IPC 8-9): B60T13/16 G01N27/26 (Advanced/Invention);

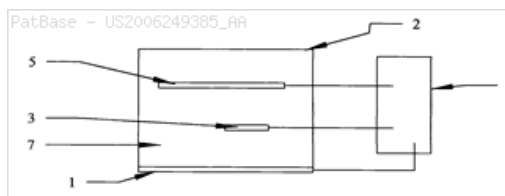
B60T13/10 G01N27/26 (Core/Invention)

International (IPC 1-7): B60T13/00

CPC: B60T13/162

European: B60T13/16B1

US: 204/431 60/547.2 60/547.3 60/581



Family:

Publication number	Publication date	Application number	Application date
US2006249385 AA	20061109	US20040971259	20041023
US5960629 A	19991005	US19980015166	19980129

Priority:

US19980015166 19980129 US20040971259 20041023

Probable Assignee: ROBERT BOSCH TECHNOLOGY CORP

Assignee(s): (std): BOSCH ROBERT TECH CORP ; STETTER JOSEPH R

Assignee(s): ROBERT BOSCH TECHNOLOGY CORP

Inventor(s): (std): MCCLAIN RICHARD BECKER ; STETTER JOSEPH R ; TOWERS KENNETH SCOTT

Inventor(s): STETTER JOSEPH

50) Family number: 48392617 (US2011049992A)

© PatBase

Title: SYSTEMS, METHODS, AND DEVICES INCLUDING MODULAR, FIXED AND TRANSPORTABLE STRUCTURES INCORPORATING SOLAR AND WIND GENERATION TECHNOLOGIES FOR PRODUCTION OF ELECTRICITY

Abstract: Disclosed are systems, methods, and devices related to fixed and transportable structures and vehicles utilizing the integration of solar and wind technologies for generation of electricity. The system generates electricity using solar panels (and/or solar thermal units) and wind turbines, stores and converts electricity, and can be located in various locations either as fixed or portable embodiments including on land, on water, underwater, air and space and may also be housed in a structure to provide electricity for various facilities and uses.

Classifications:

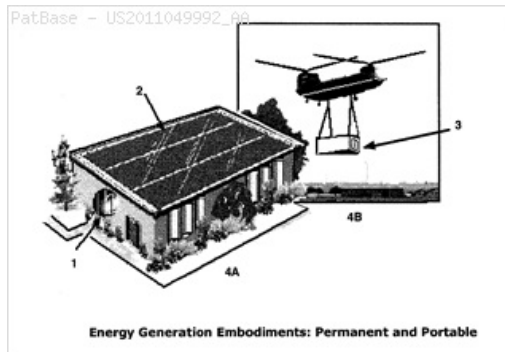
International (IPC 8-9): F03D1/00 F03D9/00 F24J2/52 H02J1/00 H02J3/38 H02J7/35 H02J9/00 H02S10/10 (Advanced/Invention);

F24J2/54 (Advanced/Non-invention)

CPC: F05B2240/142 H02J3/38 H02S10/10 Y02E10/47 Y10T307/615 H02J7/35 F03D9/007 F24S25/11 F03D9/11 F03D9/255 F24S25/10 F24S2025/012 F24S2030/16 H02J7/355 H02S10/12 F03D13/40 Y02B10/14 Y02B10/20 Y02B10/70 Y02E10/725

European: F03D1/00D F03D9/00E H01L31/058B R05B240/142 Y02E10/50 Y02E10/72

US: 1/1 307/46 307/64 307/64P

**Family:**

Publication number	Publication date	Application number	Application date
US2011049992 AA	20110303	US20100870399	20100827
US2017012464 AA	20170112	US20160156928	20160517
US9422922 BB	20160823	US20100870399	20100827

Priority:

US20090237961P 20090828
US20160156928 20160517

US20090260516P 20091112

US20100870399 20100827

Probable Assignee: ARCH ARNOLD STEPHEN

Assignee(s): (std): ARCH ARNOLD STEPHEN ; SANT ANSELMO ROBERT

Inventor(s): (std): ARCH ARNOLD STEPHEN ; SANT ANSELMO ROBERT

Inventor(s): SANT'ANSELMO ROBERT

Agent(s): STAAS AND HALSEY LLP

51) Family number: 50123621 (EP2397808B1)

© PatBase

Title: Device for neutralising an explosive charge and the like controlled by wire

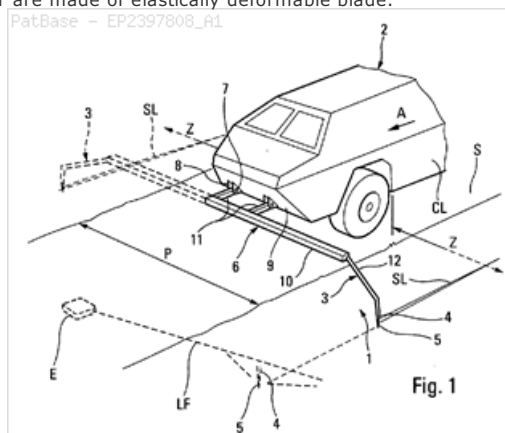
Abstract: The equipment (1) has a tool (3) in the form of an end clamp (4) offset laterally to bring the clamp into a lateral zone (Z) of a motorized armored vehicle (2) lying in a plane perpendicular to ground. An elongated support (6) has an end on which the tool is mounted for being offset laterally on the zone. The support is formed of an arm (10) transversely connected to the vehicle on a side. The tool is associated to the arm on another side, and has a clamp holder (12) removably connected with the arm and/or the clamp. The support and the holder are made of elastically deformable blade.

Classifications:

International (IPC 8-9): F41H11/16 F41H11/20 (Advanced/Invention)

CPC: F41H11/20 F41H11/24

European: F41H11/16D F41H11/16D2

**Family:**

Publication number	Publication date	Application number	Application date
DE602011000935 D1	20130418	DE201160000935T	20110614
EP2397808 A1	20111221	EP20110290272	20110614
EP2397808 B1	20130220	EP20110290272	20110614
ES2402116 T3	20130429	ES20110290272T	20110614
FR2961589 A1	20111223	FR20100002586	20100618
FR2961589 B1	20141128	FR20100002586	20100618

Priority:

FR20100002586 20100618 EP20110290272 20110614

Probable Assignee: MBDA FRANCE**Assignee(s):** (std): MBDA FRANCE**Inventor(s):** (std): HEMBISE DOMINIQUE ; CROSNIER FRANCOIS SYLVAIN**Inventor(s):** FRANCOIS SYLVAIN CROSNIER ; DOMINIQUE HEMBISE**Agent(s):** HAUER BERNARD; Hauer Bernard; CABINET BLOCH AND BONNETAT; GEVERS FRANCE**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI 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**52) Family number: 51109652 (ZA201303377A)**

© PatBase

Title: SYSTEM AND METHOD FOR DETECTION OF MINEFIELDS

Abstract: A system for identification and location of a minefield in a geographical region of interest (ROI), said system comprising: c. a sensing unit for receiving the electromagnetic radiation of said ROI and generating at least one image of said electromagnetic radiation of said ROI, said ROI being characterized by a specific geographical location; and, d. an analyzing unit adapted to classify the probability of said at least one image to be a minefield by using one or more spectral parameters associated with at least one exposed chemical of said ROI; wherein said spectral parameters are selected from the group consisting of: SR, NDVI, PVI, SAVI, NLI, RDVI, MSR, WDV, MNLI, NDVIssSR, SAVIssSR, TSAVI, green-ratio, Red-NIR parameters, NIR-SWIR1 slope, SAM algorithm in SWIR2, PPI, Nitrogen spectral index, and any combination thereof

Classifications:**International (ipc 8-9):** G01S13/00 (Advanced/Invention);

G01S (Subclass/Invention)

CPC: G01N21/3563 G01N21/31**European:** G01N21/31 G01N21/35D

Fig. 15

Family:

Publication number	Publication date	Application number	Application date
WO12063241 A1	20120518	WO2011IL00872	20111110
ZA201303377 A	20140730	ZA20130003377	20130509

Priority:

US20100412416P 20101111 WO2011IL00872 20111110

Probable Assignee: BUZAGLO YORESH AVI**Assignee(s):** (std): BUZAGLO YORESH AVI**Inventor(s):** (std): BUZAGLO YORESH AVI**Agent(s):** DR EYAL BRESSLER LTD

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 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

53) Family number: 1470660 (ZA7902420A)

© PatBase

Title: EXPLOSIVE MINE, WITH ANTI-REMOVAL DEVICE

Abstract: An explosive mine incorporating together with an electrical detonator a delay circuit and a command circuit, is designed so that the delay circuit is adjusted for a relatively long period (e.g. 5 mins.) and is associated with a return to zero circuit having as its function the annulment of this delay. The functions of the delay, ignition and command circuits are: the emission of a first electrical impulse for ignition with a delay w.r.t. the instant of arming; the emission of a second ignition impulse in case of shock to the mine; and the emission of a definite ignition instruction after the reception of the second impulse after the first impulse. In addn., an anti-mine-clearing system is provided. This consists of an assemblage contg. a pressure plate, an inhibition circuit and an activation circuit. The pressure plate acts in conjunction with an electrical switch

which closes when a pressure greater than a fixed value acts on the plate. The inhibition circuit is activated by the closure of the switch to annual the delay period of the delay circuit. The activation circuits actuates directly the electrical detonator when the time of closing of the switch is greater than a pre-established max. value. The improved mine lends itself to use in all cases, such as laying from terrestrial vehicles, laying or arming manually or launching from helicopters. The anti-mine-clearing system prevents undesirable explosion due to the mine being rolled or moved by strong air currents.

Classifications:

International (IPC 8-9): F42B23/00 F42C11/00

F42C11/06 (Advanced/Invention);

F42B23/00 F42C11/00 (Core/Invention);

F42B (Subclass/Invention)

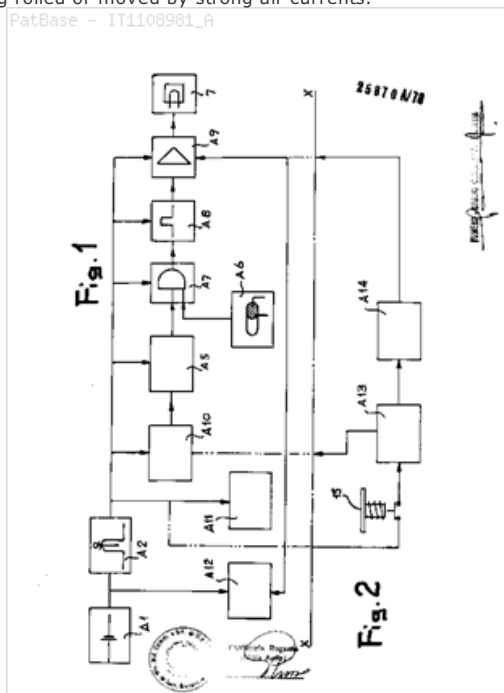
International (IPC 1-7): F42B23/00 F42B23/26 F42C11/06

F42C15/14 F42D

CPC: F42C11/007

European: F42C11/00B10

PatBase - IT1108981_A



Family:

Publication number	Publication date	Application number	Application date
BE870174 A	19790102	BE19782057252	19780904
BE876269 A4	19790917	BE19792057794	19790516
BE876269 R	19790917	BE19792057794	19790516
ES473064 A1	19791016	ES19780473064	19780904
ES481335 A2	19800201	ES19790481335	19790606
ES481335 A3	19800201	ES19790481335	19790606
IL55481 A1	19801231	IL19780055481	19780901
IL57322 A1	19821130	IL19790057322	19790517
IT1086456 A	19850528	IT19770027236	19770905
IT1108981 A	19851216	IT19780025870	19780719
IT7825870 A0	19780719	IT19780025870	19780719
ZA7805031 A	19790829	ZA19780005031	19780905
ZA7902420 A	19800827	ZA19790002420	19790517

Priority:

IT19770027236 19770905 IT19780025870 19780719 BE19780870174 19780904

Probable Assignee: VALSELLA SPA

Assignee(s): (std): VALSELLA SPA

Assignee(s): VALSELLA MECCANOTECNICA SPA ; VALSELLA S P A

Inventor(s): (std): LAURO P

Agent(s): BENJAMIN J BARISH

54) Family number: 61181674 (CO7380219A)

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Title: DISPOSITIVO ANTIEXPLOSIVOS ELECTRONICO INTEGRADO INTEGRATED ELECTRONIC DEVICE Explosion-Proof (Machine translation)

Abstract: Source: CO7380219A [ES] La presente invencion se desarrolla en el campo de la ingenieria electronica y se refiere a un dispositivo que integra las herramientas utilizadas de manera individual por los tecnicos antiexplosivos para lograr la detonacion controlada de artefactos explosivos de cualquier indole, incluyendo aquellos artefactos de fabricacion casera. Dicho dispositivo comprende, -entre otros elementos-, detonadores electricos, explosores, voltímetros y temporizadores que se encuentran acoplados entre si formando un unico aparato que permite la manipulacion integral de artefactos explosivos. En efecto, la integracion de tales herramientas permite disminuir drasticamente los riesgos asociados con la manipulacion rudimentaria de este tipo de artefactos, favoreciendo de esta manera la integridad fisica de las personas civiles y/o militares responsables de hacer frente a la utilizacion indiscriminada de este tipo de artefactos por los grupos alzados en armas al margen de la ley. **Machine translation:** The present invention is in the field of electronic engineering and refers to a device that integrates the tools used individually by the anti-explosive technicians to achieve controlled explosive devices of any kind detonation, including those devices manufacturing home. Said device comprises, among other elements-electric detonators, exploders, voltmeters and timers that are coupled together to form a single device that enables comprehensive handling of explosive devices. Indeed, the integration of such tools can dramatically reduce the risks associated with the rudimentary handling of such devices, thereby increasing the physical integrity of civilians and / or military officials to address the indiscriminate use of this type artifacts by armed groups outside the law.

Classifications:

International (IPC 8-9): G06F1/00 G06F1/04

G06F1/28 (Advanced/Invention)

Figure 1b

**Family:**

Publication number	Publication date	Application number	Application date
C07380219 A1	20150910	CO20140261749	20141128

Priority:

CO20140261749 20141128

Probable Assignee: MINISTERIO DE DEFENSA NAC EJERCITO NAC**Assignee(s):** (std): MINISTERIO DE DEFENSA NAC EJERCITO NAC**Assignee(s):** MINISTERIO DE DEFENSA NACIONAL EJERCITO NACIONAL**Inventor(s):** (std): GUTIERREZ PADILLA DIEGO ANDRES ; ORTIZ GALEANO JUAN FERNANDO ; PARRA RODRIGUEZ NELSON**Inventor(s):** JUAN FERNANDO ORTIZ GALEANO ; NELSON PARRA RODRIGUEZ ; DIEGO ANDRES GUTIERREZ PADILLA**Agent(s):** JHON ALEXANDER RODRIGUEZ CRISTANCHO**55) Family number: 60552686 (US9157705B)**

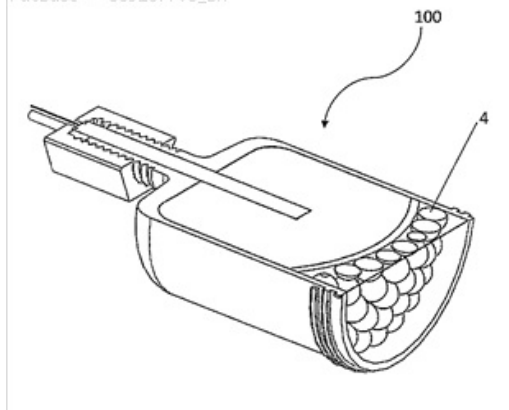
© PatBase

Title: PROJECTOR FOR DEFEATING BURIED MINES

Abstract: An relatively small anti-personnel mine device having a housing about 2 to about 3 inches in diameter, by about 2 to about 4 inches in length, which device projects a dispersion pattern of ? to ? inch diameter hard fragments over at least a 3 to 4 inch radius circle to neutralize a typical, buried, anti-personnel mine. The device contains about 125 to 190 grams of plastic explosive, which when detonated impacts a gas push plate against which an array of the fragments are lodged-the gas push plate and the fragments being encased in a puck shaped matrix of plastic or resin. The effect of the device is such that in addition to neutralizing the mine, the overburden atop the buried mine is expelled exposing the mine, providing enhanced safety in removal and a warning if the mine is daisy-chained to other mines.

Classifications:**International (IPC 8-9):** F41H11/12 (Advanced/Invention)**CPC:** F41H11/12**US:** 1/1

PatBase - US9157705_BA

**Family:**

Publication number	Publication date	Application number	Application date
US9157705 BA	20151013	US20130905714	20130530

Priority:

Probable Assignee: US GOVERNMENT REPRESENTED BY SECRETARY OF ARMY AS**Assignee(s):** (std): BERGERIA WILLIAM J ; MAJERUS MARK E ; US ARMY ; VANAMAN RICHARD L**Assignee(s):** US GOVERNMENT REPRESENTED BY SECRETARY OF ARMY AS ; SECRETARY OF ARMY AS US GOV**Inventor(s):** (std): MAJERUS MARK E ; BERGERIA WILLIAM J ; VANAMAN RICHARD L**Agent(s):** HENRY S**56) Family number: 28996702** (WO03067177A1)

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Title: BLAST-BARRIER PROTECTIVE DEVICE

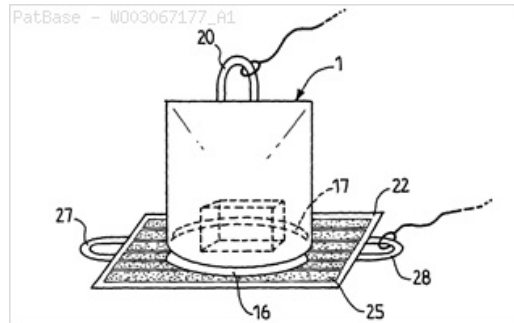
Abstract: The invention concerns a blast-barrier protective device comprising a mat (22) and a bell-shaped hood (1), the mat (22) and the hood (1) being consisting each of blast-barrier material sheets, the hood (1) being set on the mat (22) covering a suspicious object placed on the mat (22). The protective device enables to isolate an object suspected to be an explosive device, and to attenuate the effects in case the suspicious object explodes, in particular in a transport vehicle that cannot be rapidly evacuated, such as an aircraft for example.

Classifications:**International (IPC 8-9):** F42B39/14 F42D5/04

F42D5/045 (Advanced/Invention);

F42D5/04 (Advanced/Non-invention);

F42B39/00 F42D5/00 (Core/Invention)

International (IPC 1-7): F42B39/14 F42D5/04 F42D5/4 F42D5/4**CPC:** F42D5/045 F42D5/04 F42B39/14**European:** F42B39/14 F42D5/04**Family:**

Publication number	Publication date	Application number	Application date
AU2002237356 AA	20030902	AU20020237356	20020206
AU2002364923 AA	20040823	AU20020364923	20021227
AU2003226857 AA	20030902	AU20030226857	20030128
EP1472503 A1	20041103	EP20030737337	20030128
EP1472503 B1	20161026	EP20030737337	20030128
WO03067177 A1	20030814	WO2002FR00463	20020206
WO03067178 A1	20030814	WO2003FR00265	20030128
WO04068063 A1	20040812	WO2002FR04571	20021227

Priority:

FR20020000463 20020206	WO2002FR00463 20020206	FR20020004571 20021227
WO2002FR04571 20021227	WO2003FR00265 20030128	

Probable Assignee: SEMA**Assignee(s):** (std): LAUBIE CHARLES ; SEMA**Inventor(s):** (std): LAUBIE CHARLES**Inventor(s):** CHARLES LAUBIE**Agent(s):** CASALONGA AXEL

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

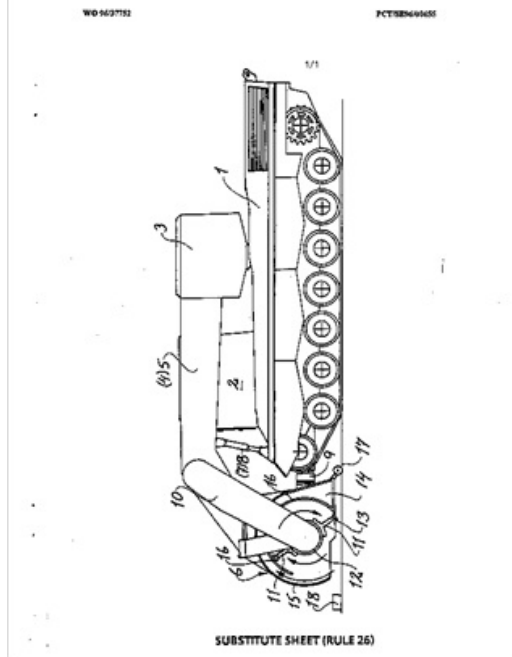
57) Family number: 9951708 (WO9637752A1)

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Title: METHOD FOR CLEARING MINES AND ASSOCIATED DEMINING SYSTEM DEVICE

Abstract: The present invention relates to a method for clearing unburied land mines (18) on level ground. The invention is based on the principle that rapidly rotating impact organs (11) shall demolish the mines (18) so quickly that they preferably never have time to detonate. Moreover, the same impact organs (11) shall impel all mine residue thus formed, both explosive and non-explosive, into a collection organ (14) designed for this purpose. The invention also incorporates an associated demining system.

Classifications:**International (IPC 8-9):** F41H11/16 (Advanced/Invention)**International (IPC 1-7):** F41H11/16**CPC:** F41H11/18**European:** F41H11/18

**Family:**

Publication number	Publication date	Application number	Application date
SE505190 C2	19970714	SE19950001899	19950522
SE9501899 A	19961220	SE19950001899D	19950522
SE9501899 L	19961220	SE19950001899	19950522
WO9637752 A1	19961128	WO1996SE00655	19960521

Priority:

SE19950001899 19950522

Probable Assignee: BOFORS AB**Assignee(s):** (std): BOFORS AB ; OESTHOLM MAGNUS ; SWEDISH DEMINING AB ; TONSTAD MASKINFABRIKK A S ; TONSTAD MASKINFABRIKK AS**Inventor(s):** (std): OESTHOLM MAGNUS ; OESTHOLM NILS MAGNUS**Inventor(s):** NILS MAGNUS OESTHOLM**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE US**58) Family number: 51606713 (WO12101465A1)**

© PatBase

Title: TRANSPORTABLE, DISMANTLABLE, MODULAR, TELEOPERATED MINE-SWEEPING VEHICLE

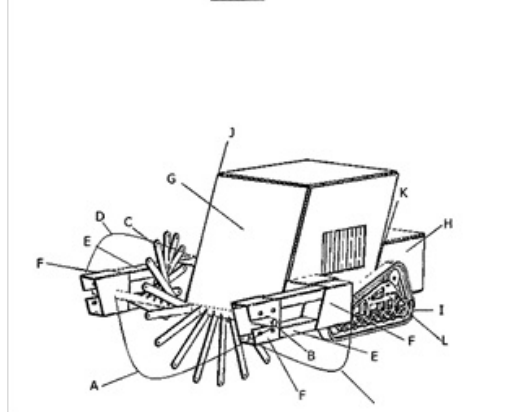
Abstract: The invention relates to a transportable, dismantlable, modular, teleoperated mine-sweeping vehicle that incorporates a flail-type mine-sweeping tool including chains and cutting elements according to requirements. The tool is supported by two armoured arms belonging to the front chassis or structure which contains a combustion engine suspended above a level changing mechanism, allowing the vehicle to handle slopes greater than 45 degrees. The front chassis is joined by means of a metal plate to a rear chassis containing the traction motors and batteries, with a space being left therebetween that can serve as an outlet passage for gases in the event of a detonation. Caterpillar tracks are connected to the rear chassis. The front chassis is angled such as to deflect the blast wave generated by mines. All of the aforementioned elements are interconnected in a modular manner allowing the vehicle to be dismantled into parts weighing no more than 40 Kg.

Classifications:**International (IPC 8-9):** B25J19/00 B25J9/08

F41H11/16 (Advanced/Invention)

CPC: F41H7/005 F41H11/18 F41H11/26 B25J11/0025**European:** B25J11/00D1 F41H11/16B F41H11/16D4

FIGURA 1

**Family:**

Publication number	Publication date	Application number	Application date
WO12101465 A1	20120802	WO2011B00169	20110127

Priority:

WO2011IB00169 20110127

Probable Assignee: TECNOLOGIAS MARTES S A S

Assignee(s): (std): TECNOLOGIAS MARTES S A S

Assignee(s): TECNOLOGIAS MARTES SAS

Inventor(s): (std): BETANCUR JAVIER

Agent(s): MARQUEZ ANDRES

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

59) Family number: 29544721 (WO03091653A2)

© PatBase

Title: METHOD AND PROCESSOR FOR REMOVING EXPLOSIVE DEVICES FROM AN AREA OF LAND

Abstract: A method and processing machine for removing explosive devices from an area of land are taught. The method includes: treating an area of land with a plough to create a ploughed land area with an exposed ground surface and a ground surface on which a berm, containing soil and explosive devices, is deposited by the plough, processing the berm to substantially remove the explosive devices from the soil and applying pressure to the ground surface of the ploughed land area, the pressure selected to detonate at least some explosive devices in the ploughed land area, and generally exceeding the highest known trigger pressure of the explosive devices at a depth of about 0.5 meters. The processing machine is useful for processing earth materials to remove explosive devices therefrom, the processing machine includes an inlet to receive earth materials, processor means to process the earth materials to remove at least some of the unexploded ordnance contained therein, resulting in processed earth materials, and an outlet to pass the processed earth materials out of the processing machine.

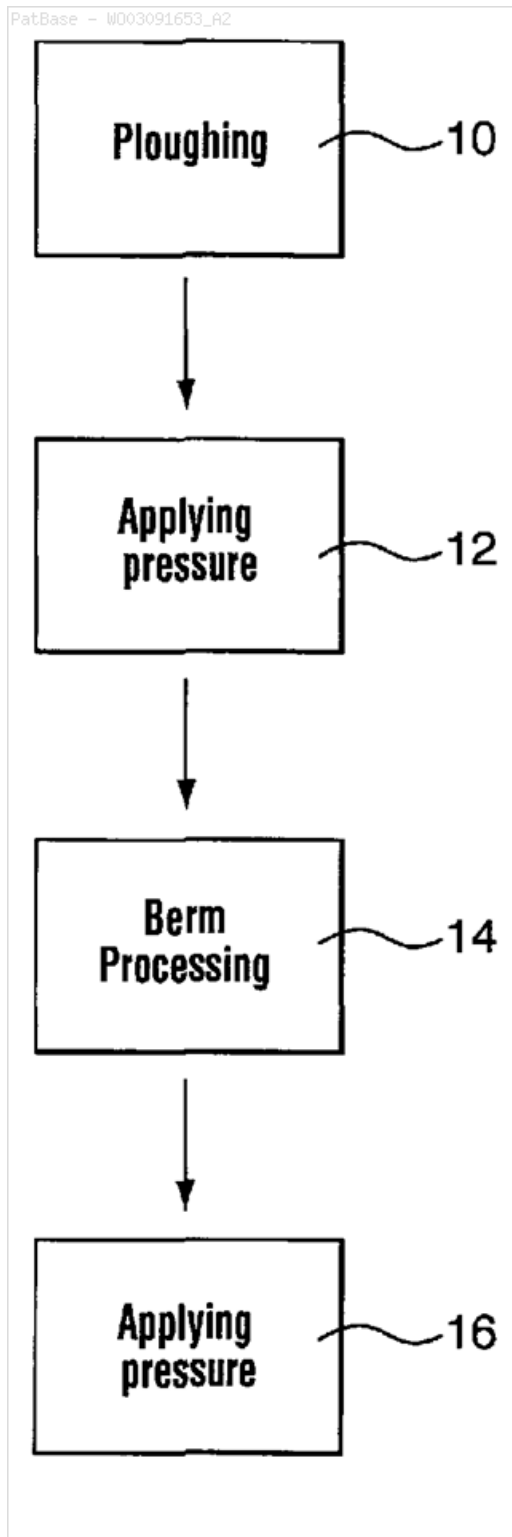
Classifications:

International (IPC 8-9): E02F7/00 F41H11/12 F41H11/16 F41H11/24 F41H11/30 (Advanced/Invention)

International (IPC 1-7): F41H11/12 F41H11/16

CPC: F41H11/12 F41H11/24 F41H11/28 F41H11/30 F41H11/32

European: F41H11/12 F41H11/24 F41H11/28 F41H11/30 F41H11/32

**Family:**

Publication number	Publication date	Application number	Application date
AU2003218846 AA	20031110	AU20030218846	20030423
CA2383811 AA	20031026	CA20022383811	20020426
CA2392418 AA	20040104	CA20022392418	20020704
WO03091653 A2	20031106	WO2003CA00582	20030423
WO03091653 A3	20040318	WO2003CA00582	20030423

Priority:

CA20022383811 20020426 CA20022392418 20020704 WO2003CA00582 20030423

Probable Assignee: INTER CONTINENTAL SAFETY SYSTE

Assignee(s): (std): MACFARLANE JIM ; RICHTER ERICH ; RICHTER RICHARD CONRAD ; SANFORD RALPH ; WATTS BILL ; INTER CONTINENTAL SAFETY SYSTE

Assignee(s): INTER CONTINENTAL SAFETY SYSTEMS INC

Inventor(s): (std): MACFARLANE JIM ; RICHTER ERICH ; RICHTER RICHARD CONRAD ; SANFORD RALPH ; WATTS BILL

Inventor(s): RALPH SANFORD ; RICHARD CONRAD RICHTER ; BILL WATTS ; ERICH RICHTER ; JIM MACFARLANE

Agent(s): BENNETT JONES LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ

60) Family number: 3611728 (FR2322352A)

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Title: MECHANICALLY LAID ANTITANK MINE - HAS INTERRUPTORS IN FUSE SYSTEM WITH BALL ESCAPE OPENED BY REMOTE CONTROL

Abstract: The anti-tank mine can be dropped and laid by a machine, and has a safety device in the fuse system. This comprises two interruptors (10, 11) acting in opposite directions, one being fixed to the mine cover and the other to the base. The escaping balls (16, 17) of these interruptors are allowed to escape through an opening with a remote control. The remote control can incorporate a component carrying sealing devices, such as balls, for the interruptor openings, and which is slid by an arming button. Removable plugs can be provided, allowing the interruptors to be reloaded with balls.

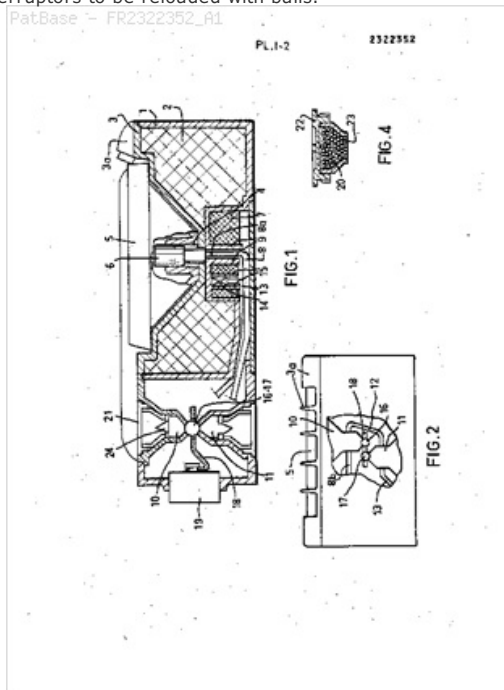
Classifications:

International (IPC 8-9): F42B23/04 F42C15/34 (Advanced/Invention);
F42B23/00 F42C15/00 (Core/Invention)

International (IPC 1-7): F42B23/04 F42B23/32

CPC: F42B23/04 F42C15/34

European: F42B23/04 F42C15/34

**Family:**

Publication number	Publication date	Application number	Application date
FR2322352 A1	19770325	FR19750026556	19750828
FR2322352 B3	19800418	FR19750026556	19750828

Priority:

FR19750026556 19750828

Probable Assignee: ALSETEX

Assignee(s): (std): ALSETEX ; ALSETEX ARMEMENT SAE

Assignee(s): ALSETEX ARMEMENT ETUDES

Inventor(s): (std): METAYER JEAN ; PRIOU STEPHANE

Inventor(s): JEAN METAYER ET STEPHANE PRIOU

61) Family number: 7004737 (DE3719909C1)

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Title: Anti-armour mine

Abstract: The invention relates to an anti-armour mine according to the precharacterising clause of Claim 1, the method of operation of which mine can be matched automatically or manually to the respective target to be engaged, by detonation guidance by means of a sensor device. An exemplary embodiment is explained and is sketched in a drawing.

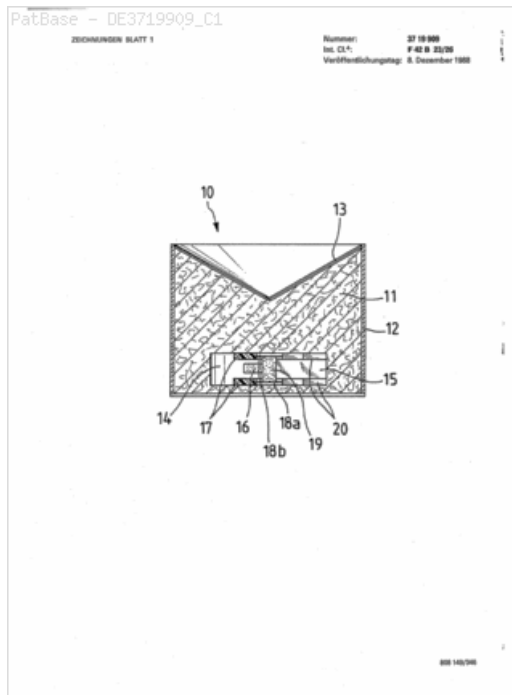
Classifications:

International (IPC 8-9): F42C11/00 (Advanced/Invention);
F42C11/00 (Core/Invention)

International (IPC 1-7): F42B23/04 F42B23/26

CPC: F42C11/007

European: F42C11/00B10



Family:

Publication number	Publication date	Application number	Application date
DE3719909 C1	19881208	DE19873719909	19870615

Priority:

DE19873719909 19870615

Probable Assignee: MESSERSCHMITT BOELKOW BLOHM

Assignee(s): (std): MESSERSCHMITT BOELKOW BLOHM

Assignee(s): MESSERSCHMITT BOELKOW BLOHM GMBH ; MESSERSCHMITT BOELKOW BLOHM GMBH 8012 OTTOBRUNN DE

Inventor(s): (std): GROESSLER PETER

Inventor(s): GROESSLER PETER 8031 HOCHSTADT DE

62) Family number: 15351743 (SE469197B)

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Title: MINE-CLEARING DEVICE

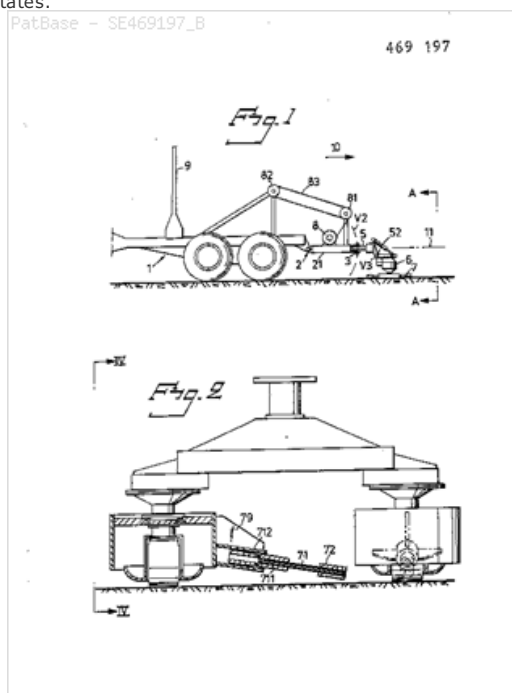
Abstract: A mine-clearing device comprises a rotor with a rotor body 7 which bears striking elements 72 for striking action on mines or the like on a surface such as a landing strip for aircraft, the rotor being arranged with an essentially vertical axis of rotation and the striking elements 72 being arranged so as to move in direct proximity to the surface of the ground. The rotor body 7 bears a central support arrangement 78, for example in the form of a guide wheel which interacts with the ground in order to define the height of the striking elements 72 relative to the ground. The rotor body is rotationally driven by an axle shaft which is connected firmly to the rotor body and extends upwards from the same, and the rotation mounting which is included in the shaft of the guide wheel, which shaft is connected centrally to the underside of the rotor body, allows the guide wheel to stand still relative to the ground when the rotor rotates.

Classifications:

International (IPC 8-9): F41H11/18 (Advanced/Invention)

International (IPC 1-7): F41H11/12

CPC: F41H11/28 F41H11/18



Family:

Publication number	Publication date	Application number	Application date
SE469197 B	19930524	SE19890002171	19890616
SE469197 C	19930916	SE19890002171	19890616
SE8902171 A	19901217	SE19890002171D	19890616
SE8902171 A0	19890616	SE19890002171	19890616
SE8902171 L	19901217	SE19890002171	19890616

Priority:

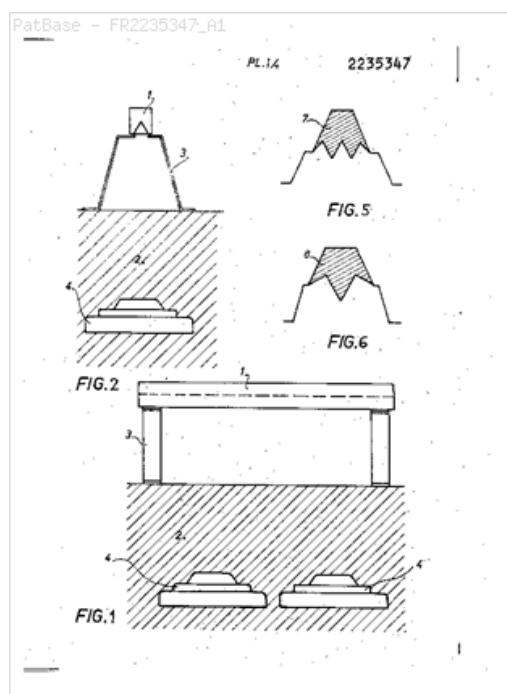
SE19890002171 19890616

Probable Assignee: SVENSKA TICO FOERSAELJNINGS AB**Assignee(s):** (std): SVENSKA TICO FOERSAELJNINGS AB**Inventor(s):** (std): B NORDSTROEM ; NORDSTROEM B**63) Family number: 3171744 (FR2235347A)**

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Title: MINEFIELD CLEARANCE EQPT. - SLEDGES CARRYING EXPLOSIVE DEVICES DRAGGED BEHIND TANK FOR EXPLODING ABOVE GROUND LEVEL

Abstract: A method of clearing a path through a minefield, a section at a time, uses cone shaped explosive devices which are supported a suitable height above ground level above the area where the mines are buried, using a bridge shaped frame. A large number of the explosive devices may be placed in position by a sledge-like carrier (32) with a number of supporting frames (17) across it, each frame carrying a set of explosive devices, and a sufficient number of the carriers may be transported by a vehicle and arranged to clear a path through the minefield. An armoured tank (27) may drag a train of such sledge-like carriers.

Classifications:**International (IPC 8-9):** F41H11/12 (Advanced/Invention)**International (IPC 1-7):** F41H11/12**CPC:** F41H11/12**European:** F41H11/12**Family:**

Publication number	Publication date	Application number	Application date
FR2235347 A1	19750124	FR19730023373	19730626
FR2235347 B3	19760618	FR19730023373	19730626

Priority:

FR19730023373 19730626

Probable Assignee: ALSETEX ETUDES EXPLOIT**Assignee(s):** (std): ALSETEX ETUDES EXPLOIT**Assignee(s):** ALSETEX ETUDES EXPLOITATION ; ALSETEX ETUDES EXPLOITATION FR**64) Family number: 51558747 (US2012185129A)**

© PatBase

Title: ALL-TERRAIN HOSTILE ENVIRONMENT VEHICLE

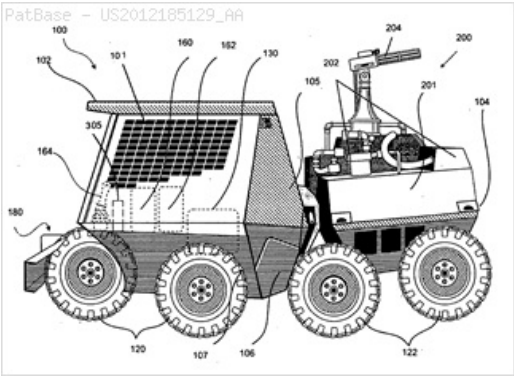
Abstract: A first chassis and second chassis hingedly connects to the first chassis, wherein each of the first and second chassis includes a plurality of wheels which are operably connected to a hydraulic motor. The hydraulic motor operably connects to an engine which is operably connected to the first chassis. A transmission pump operably interconnects the hydraulic motor and the engine and a flow divider operably interconnects the transmission pump and the hydraulic motor to regulate hydraulic flow to the hydraulic motor.

Classifications:**International (IPC 8-9):** B60K17/356 B60K6/08 B62D53/00

B62D61/10 G05D7/00 G06F19/00 (Advanced/Invention);

A62C27/00 B60F3/00 (Advanced/Non-invention)

CPC: B62D53/005 A62C27/00 B60F3/0007 B62D59/00 B62D61/10 F16H61/456 B60Y2200/44 F41H7/048
European: B62D53/00B B62D59/00 F16H61/456
US: 180/24.07 180/24.070S 180/24.08 180/242 180/69.6 180/69.600S 280/460.1 701/36 701/36P 701/69 701/69S



Family:

Publication number	Publication date	Application number	Application date
US2012185129 AA	20120719	US20080332647	20081211
US8464816 BB	20130618	US20080332647	20081211

Priority:

US20080332647 20081211

Probable Assignee:

CARSAF LLC

Assignee(s): (std):

CARRIER BRIAN E ; CARSAF LLC

Inventor(s): (std):

CARRIER BRIAN E

Agent(s):

R WILLIAM

65) Family number: 59104756 (US2016154138A)

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Title: SPEED BUMP BOMB DETECTOR FOR BOMBS IN VEHICLES

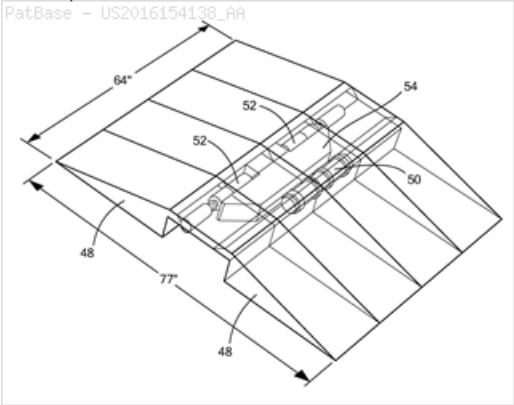
Abstract: The invention provides a method and apparatus for detecting the presence of explosives in the trunk or rear area of a vehicle using neutron invasion of that vehicle area and resulting gamma ray sensing resulting from the reaction of the neutrons, typically fast neutrons, with explosives therein enhanced by the interaction of the neutrons with fuel, the neutron generation and gamma ray sensing being in equipment located in speed bumps or recessed below the road surface.

Classifications:

International (IPC 8-9): G01N G01N23/00 G01N23/22 G01N33/22 G01V5/00 (Advanced/Invention)

CPC: G01N23/222 G01V5/0069

US: 250/393



Family:

Publication number	Publication date	Application number	Application date
EP3025146 A2	20160601	EP20140856084	20140722
EP3025146 A4	20170308	EP20140856084	20140722
HK1225440 A1	20170908	HK20160113706	20161201
JP2016525687 T2	20160825	JP20160529826T	20140722
RU2016101936 A	20170829	RU20160101936	20140722
RU2016101936 A3	20180403	RU20160101936	20140722
TW201518757 A	20150516	TW20140125206	20140722
US2016154138 AA	20160602	US20140906906	20140722
WO15060911 A2	20150430	WO2014US47567	20140722
WO15060911 A3	20150716	WO2014US47567	20140722
WO15060911 A9	20150604	WO2014US47567	20140722

Priority:

US20130857641P 20130723 RU20160101936 20140722 WO2014US47567 20140722
US20140906906 20140722

Probable Assignee: CALSEC CALIFORNIA SCIENCE AND ENGINEERING CORP

Assignee(s): (std):

CALSEC CALIFORNIA SCIENCE AND ENGINEERING CORP ; MAGLICH BOGDAN C ; SUVAKOVIC ALEXANDER

Inventor(s): (std):

SUVAKOVIC ALEXANDER ; MAGLICH BOGDAN C

Agent(s):

WRIGHT HOWARD HUGH BURNBY; NTD PATENT AND TRADE MARK AGENCY LTD; OKABE YUZURU; TAKAHASHI SEIICHIRO; OCHI TAKAO; MATSUI TAKAO; GAGNEBIN III CHARLES L 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 KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN

66) Family number: 49332765 (US2011180283A)

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Title: MODULAR ROLLER SYTEM

Abstract: In an implementation, a roller system is provided. The roller system includes a modular frame. The frame includes a plurality of weight component attachment points. Each weight component attachment point is adapted to receive one or more weight components such that a weight of the frame and location of a center of gravity of the frame is adjusted by the addition of one or more weight components to each of the plurality of weight component attachment points. The frame further includes at least one arm assembly adapted to connect to the frame, and to apply force to a surface, wherein the force applied to the surface is proportional to the weight of the frame and the location of the center of gravity of the frame.

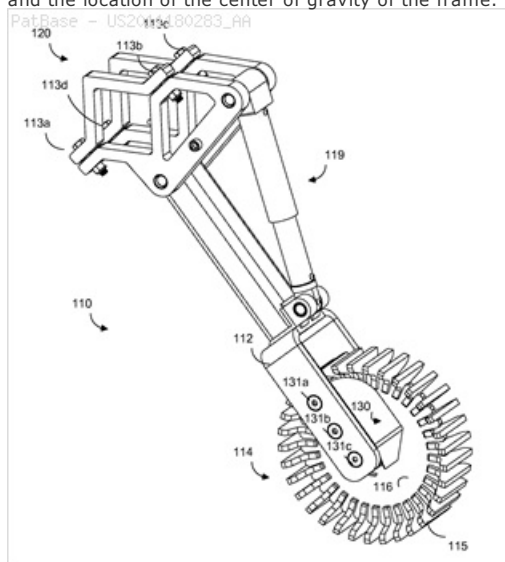
Classifications:

International (IPC 8-9): A01B21/02 A01B29/04 F41H F41H11/12
F41H11/26 F41H11/30 (Advanced/Invention);
F41H (Subclass/Invention)

CPC: A01B29/04 F41H11/30

European: A01B29/04 F41H11/16H F41H11/30

US: 102/402 172/547 172/611 89/1.13 89/1.130S

**Family:**

Publication number	Publication date	Application number	Application date
DE602011022824 D1	20160303	DE201160022824T	20110126
EP2529178 A2	20121205	EP20110736689	20110126
EP2529178 A4	20141001	EP20110736689	20110126
EP2529178 B1	20160120	EP20110736689	20110126
IL220895 A0	20120924	IL20110220895	20110126
IL220895 A1	20150831	IL20110220895	20110126
US2011180283 AA	20110728	US20100694924	20100127
US8397612 BB	20130319	US20100694924	20100127
WO11092631 A2	20110804	WO2011B50330	20110126
WO11092631 A3	20120405	WO2011B50330	20110126
ZA201205272 A	20130925	ZA20120005272	20110126

Priority:

US20100694924 20100127 EP20110736689 20110126 WO2011B50330 20110126

Probable Assignee: HUMANISTIC ROBOTICS INC

Assignee(s): (std): AHNERT STEPHEN ; DE BRUN ERIK ; HUMANISTIC ROBOTIC INC ; HUMANISTIC ROBOTICS INC ; POFF SCOTT ; TEDESCO DANIELE SALVATORE ; REEVES SAMUEL ; KOPLIN JOSHUA

Assignee(s): HUMANISTIC ROBOTICS INC BRISTOL

Inventor(s): (std): POFF SCOTT ; KOPLIN JOSHUA ; TEDESCO DANIELE SALVATORE ; REEVES SAMUEL ; AHNERT STEPHEN ; DE BRUN ERIK ; TEDESCO DANIELE

Inventor(s): REEVES SAMUEL PHILADELPHIA ; AHNERT STEPHEN PHILADELPHIA ; POFF SCOTT PHILADELPHIA ; KOPLIN JOSHUA PHILADELPHIA ; DE BRUN ERIK PHILADELPHIA ; TEDESCO DANIELE DRESHER

Agent(s): NOVAGRAAF; WILSON PETER DAVID GEORGE; REINHOLD COHN AND PARTNERS; TIEFF I P LAW P C; MICHAEL; TIEFF IP LAW PC; TIEFF MICHAEL

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 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 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

67) Family number: 12616772 (EP0916921A1)

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Title: Munitions for mine clearance

Abstract: The shell comprises a projectile (1) launched by a propulsive charge and containing a disperser (7) for one or more magnetic field generators (8) in the form of magnetic sub-projectiles.

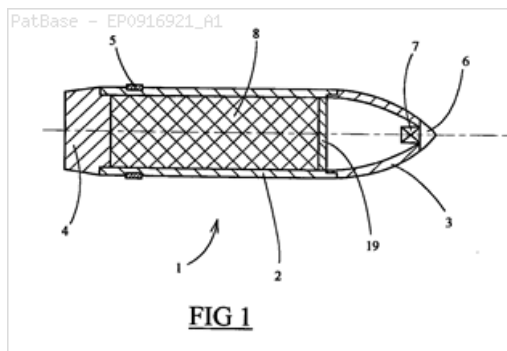
Classifications:

International (IPC 8-9): F41H11/12 F42B12/36 (Advanced/Invention)

International (IPC 1-7): F41H11/12 F42B12/36 F42B12/58 F42B12/74

CPC: F41H11/12 F42B12/36

European: F41H11/12 F42B12/36



Family:

Publication number	Publication date	Application number	Application date
AT231606 E	20030215	AT19980120292T	19981027
CA2251975 AA	19990514	CA19982251975	19981113
DE69810877 D1	20030227	DE19986010877	19981027
DE69810877 D1	20030227	DE19986010877T	19981027
DE69810877 T2	20031113	DE19986010877T	19981027
EP0916921 A1	19990519	EP19980120292	19981027
EP0916921 B1	20030122	EP19980120292	19981027
FR2771165 A1	19990521	FR19970014327	19971114
FR2771165 B1	19991231	FR19970014327	19971114

Priority:

FR19970014327 19971114 CA19982251975 19981113

Probable Assignee: GIAT IND SA

Assignee(s): (std): GIAT IND SA

Assignee(s): GIAT IND VERSAILLES ; GIAT INDUSTRIES ; GIAT INDUSTRIES VERSAILLES ; ROGER DIDIER ; HERVIEU GHISLAIN ; GIAT IND

Inventor(s): (std): HERVIEU GHISLAIN ; ROGER DIDIER

Agent(s): ROBIC

Designated states: AT BE CH CY DE DK ES FI GB GR IE IT LI NL PT SE

68) Family number: 28136800 (US2001046274A)

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Title: METHOD AND APPARATUS FOR THE DETECTION OF HYDROGENOUS MATERIALS

Abstract: An improved method and apparatus for the detection of hydrogenated materials. Detection of concealed hydrogenated materials such as organic explosives, drugs, or biological tissue is accomplished by measuring the backscattering of neutrons from hydrogenous material in the targeted environment. The system comprises a neutron source that provides information as to the time at which the neutron is emitted, and a neutron sensor, which provides information as to the time at which the neutron is detected and may provide information as to the location at which the neutron is detected. The invention comprises a timing circuit that deactivates the neutron sensor during a time delay to reject signals from neutrons that have not scattered from hydrogen nuclei. The invention may further cease to detect neutrons after a window to reject signals from neutrons that have scattered off distant hydrogen nuclei, which may represent background noise. The device, therefore, preferentially detects thermalized neutrons with resulting enhanced sensitivity. The invention allows for rapid and effective detection of hydrogenated materials that may be hidden from view in the ground, in buildings, vehicles, baggage, or other structures.

Classifications:

International (IPC 8-9): G01T1/29 G01T3/00 G01T7/00
G01V5/00 (Advanced/Invention)

International (IPC 1-7): G01T1/00 G01V5/00 G21G1/06

CPC: G01T1/295 G01T3/00 G01T7/00 G01V5/0025

European: G01T1/29D1F G01T3/00 G01T7/00 G01V5/00D2A

US: 376/154 376/154P 376/158 376/158P

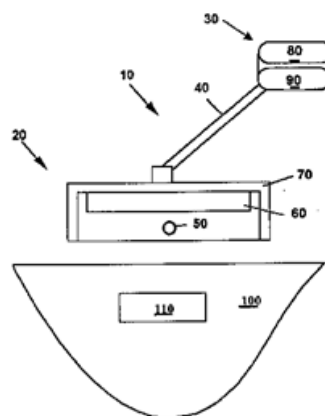


FIG. 1a

Family:

Publication number	Publication date	Application number	Application date
AU2001261048 AA	20011112	AU20010261048	20010425
AU200161048 A1	20011112	AU20010061048	20010425
AU200161048 A5	20011112	AU20010061048	20010425
US2001046274 AA	20011129	US20010771064	20010126
US2005018802 AA	20050127	US20030737334	20031216
WO0184183 A2	20011108	WO2001US13339	20010425
WO0184183 A3	20020404	WO2001US13339	20010425

Priority:

US20000561830 20000428 US20010771064 20010126 WO2001US13339 20010425
 US20030737334 20031216

Probable Assignee: BATTELLE MEMORIAL INST K1 53

Assignee(s): (std): BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INSTITUTE ; PEURRUNG ANTHONY J

Assignee(s): CRAIG RICHARD A ; ENERGY US DEPARTMENT OF ; BATTELLE MEMORIAL INST K1 53

Inventor(s): (std): CRAIG RICHARD A ; PEURRUNG ANTHONY J

Inventor(s): RICHARD A CRAIG ; PEURRUNG ANTHONY ; ANTHONY J PEURRUNG ; CRAIG RICHARD

Agent(s): WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP BANK ONE CENTER TOWER

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 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

69) Family number: 50905802 (US2012138794A)

© PatBase

Title: DEVICE FOR DETECTION AND IDENTIFICATION OF CARBON- AND NITROGEN- CONTAINING MATERIALS

Abstract: A device for detection and identification of carbon- and nitrogen-containing materials is described. In particular, the device performs the detection and identification of carbon- and nitrogen-containing materials by photo-nuclear detection. The device may comprise a race-track microtron, a breaking target, and a water-filled Cherenkov radiation counter.

Classifications:

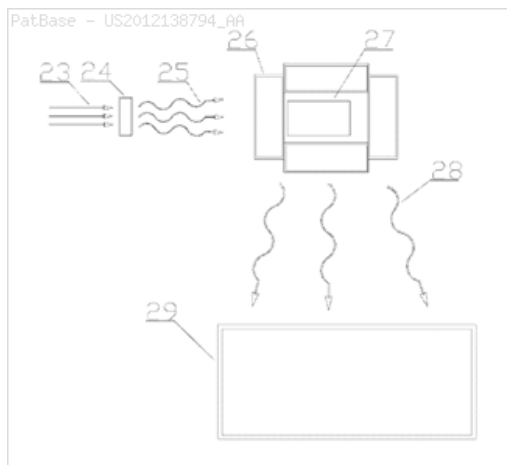
International (IPC 8-9): G01N23/22 G01N23/222 G01T1/22

G21G1/12 G21K5/00 (Advanced/Invention)

CPC: G01V5/0069 G01N23/221 G01V5/0008

European: G01N23/221 G01V5/00D

US: 250/269.1 250/310 250/310P 250/370.09 376/153 376/157
 376/157P 378/119 378/88 378/98.8



Family:

Publication number	Publication date	Application number	Application date
RU2442974 C1	20120220	RU20100149621	20101206
RU2444003 C1	20120227	RU20100149620	20101206
US2012138794 AA	20120607	US20110253934	20111005
US2012140863 AA	20120607	US20110253927	20111005
US8582712 BB	20131112	US20110253927	20111005
US8681939 BB	20140325	US20110253934	20111005
WO12078241 A1	20120614	WO2011US54996	20111005
WO12078242 A1	20120614	WO2011US54998	20111005

Priority:

RU20100149620 20101206 RU20100149621 20101206 US20110534177P 20110913
 US20110534219P 20110913 US20110253927 20111005 US20110253934 20111005

Probable Assignee: LAWRENCE LIVERMORE NATIONAL SECURITY LLC

Assignee(s): (std): RAEVSKY VALERY GEORGIEVICH ; RYKALIN VLADIMIR IVANOVICH ; PAKHOMOV NIKOLAY IVANOVICH ; SHVEDUNOV VASILY IVANOVICH ; LAPTEV VALERY DMITRIEVICH ; SHVEDUNOV VASILY IVANOVICH ; RAEVSKIY VALERIY GEORGIEVICH ; PAKHOMOV NIKOLAI IVANOVICH ; UCHREZHDENIE ROSSIJSKOJ AKADEMII NAUK FIZICHESKIJ INST IM P N LEBEDEVA RAN FIAN ; BROTHERS LOUIS JOSEPH ; DZHILAVYAN LEONID ZAVENOVICH ; KAREV ALEKSANDR IVANOVICH ; KAREV ALEXANDER IVANOVICH ; L LIVERMORE NAT SECURITY LLC ; LAPTEV VALERIY IVANOVICH ; WILHIDE LARRY K

Assignee(s): LAWRENCE LIVERMORE NATIONAL SECURITY LLC ; UCHREZHDENIE ROSSIJSKOJ AKADEMII NAUK FIZICHESKIJINSTITUT IM P N LEBEDEVA RAN FIAN ; UCHREZHDENIE ROSSIJSKOJ AKADEMII NAUK FIZICHESKIJINSTITUT IM PN LEBEDEVA RAN FIAN ; US DEPARTMENT OF ENERGY

Inventor(s): (std): BRAZERS LU DZHOZEF ; BROTHERS LOUIS JOSEPH ; DZHILAVYAN LEONID ZAVENOVICH ; DZHILAVYAN LEONID ZAVENOVICH ; KAREV ALEKSANDR IVANOVICH ; KAREV ALEXANDER IVANOVICH ; LAPTEV VALERIY DMITRIEVICH ; LAPTEV VALERIY IVANOVICH ; LAPTEV VALERY DMITRIEVICH ; PAKHOMOV NIKOLAI IVANOVICH ; PAKHOMOV NIKOLAJ IVANOVICH ; PAKHOMOV NIKOLAY IVANOVICH ; RAEVSKIY VALERIY GEORGIEVICH ; RAEVSKIY VALERIY GEORGIEVICH ; RAEVSKY VALERY GEORGIEVICH ; RYKALIN VLADIMIR IVANOVICH ; SHVEDUNOV VASILY IVANOVICH ; SHVEDUNOV VASILY IVANOVICH ; VILKHAJD LARI KENNEF ; WILHIDE LARRY K

Agent(s): STEINFL AND BRUNO LLP; STEINFL AND BRUNO LLP ET AL; STEINFL ALESSANDRO ET AL

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 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

70) Family number: 34605811 (US2008303530A)

© PatBase

Title: ELECTROSTATIC SENSOR

Abstract: An electrostatic sensor generally includes a sensor head with at least one passive sensing electrode responsive to an electric field and a high-impedance amplification stage associated with the sensing electrode. The high-impedance amplification stage is configured for outputting at least one output signal in response to an electric signal induced on the at least one sensing electrode by the electric field. The sensor head further includes a screen of electrically insulating material, which is associated with the at least one sensing electrode. In an operational mode of the electrostatic sensor, the screen is electrically charged and induces an electric field in the surroundings of the sensing electrode.

Classifications:

International (IPC 8-9): A01K11/00 A1K11/00 F41H11/12 G01D5/24 G01H11/06 G01H17/00 G01R29/12 G01R29/14

G01V3/08 (Advanced/Invention);

A61B5/0408 A61B5/0478 F41H11/136 (Advanced/Non-invention);

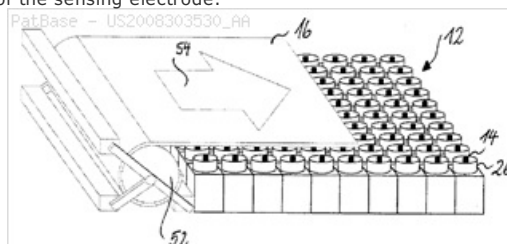
A01K11/00 F41H11/00 G01D5/12 G01H17/00 G01R29/12

G01V3/08 (Core/Invention)

CPC: F41H11/136 G01R29/14

European: G01R29/14

US: 324/457



Family:

Publication number	Publication date	Application number	Application date
CA2629614 AA	20080513	CA20062629614	20061215

EP1801600 A1	20070627	EP20050112975	20051223
EP1801601 A1	20070627	EP20050112977	20051223
EP1963873 A1	20080903	EP20060841388	20061215
JP2009520966 T2	20090528	JP20080546403T	20061215
US2008303530 AA	20081211	US20060158940	20061215
WO07071630 A1	20070628	WO2006EP69787	20061215

Priority:

EP20050112975 20051223 EP20050112977 20051223 WO2006EP69787 20061215
EP20060841388 20061215

Probable Assignee: EUROPEAN COMMUNITY REPRESENTED BY EUROPEAN COMMISSION

Assignee(s): (std): COUTSOMITROS CONSTANTIN ; EUROP ECONOMIC COMMUNITY ; EUROPEAN COMMUNITY ; KORN CHRISTOPHE

Assignee(s): THE EUROPEAN COMMUNITY ; THE EUROPEAN COMMUNITY REPRESENTED BY THE EUROPEAN COMMISSION ; EUROPEAN COMMUNITY REPRESENTED BY EUROPEAN COMMISSION ; EUROPEAN COMMUNITY REPRESENTED BY ; EUROPEAN COMMUNITY REPRESENTED BY EUROPEAN ; EUROPEAN COMMUNITY REPRESENTED BY EUROPEAN COMMISS ; THE EUROPEAN COMMUNITY REPRESENTED BY THE EUROPEAN

Inventor(s): (std): COUTSOMITROS CONSTANTIN ; COUTSORNITROS CONSTANTIN ; KORN CHRISTOPHE

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; SCHMITT ARMAND ET AL; CANTOR COLBURN 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 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 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 YU ZA ZM ZW

71) Family number: 14304815 (FR2765198A)

© PatBase

Title: Explosion absorbing litter bin

Abstract: The container is basically cylindrical or octagonal in shape with triple layer steel walls. The first or inner layer (1) is of high resilience or ballistic steel. The second layer (3) is set at a distance from the first layer equivalent to the thickness of the two and is made from a steel with a high traction resistance. The third or outer layer (9, 11) is thinner but also of steel with high traction resistance. The first or inner layer is made from two shells joined along the cylinder's generating lines, and the container can have a layer of a lightweight high bulk material, such as a foam or honeycomb structure, between the first and second layers. In addition, the first and second layers form a sub-assembly with a base connected to legs by reinforcing stays.

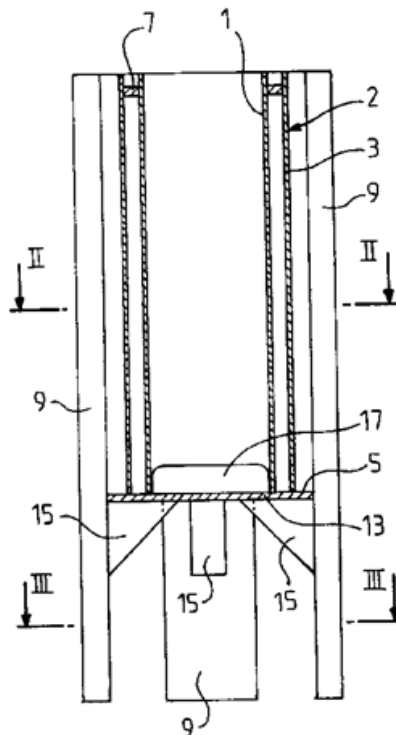
Classifications:

International (IPC 1-7): B65D90/02 B65F1/14

CPC: B65F1/14 B65F2220/104 F42B39/14 F42D5/045

European: B65F1/14 F42B39/14 F42D5/045 L65F220/104

PatBase - FR2765198_R1



Family:

Publication number	Publication date	Application number	Application date
FR2765198 A1	19981231	FR19970008220	19970630
FR2765198 B1	19990820	FR19970008220	19970630

Priority:

FR19970008220 19970630

Probable Assignee:

CABINES DENIZET SA

Assignee(s): (std):

CABINES DENIZET SA

Assignee(s):

SA CABINES DENIZET

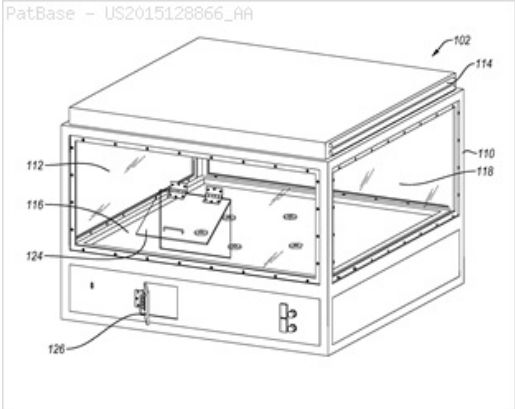
72) Family number: 55352821 (US2015128866A) © PatBase

Title: RUGGED AUTOMATED TRAINING SYSTEM AND METHODS

Abstract: Systems, kits, and methods for training animals. The system can include an animal training enclosure, an animal harness assembly, and a system controller assembly. The animal training enclosure can include a housing in which the animal to be trained is positioned, a stimuli delivery assembly that presents stimuli and distracters to the animal, and a primary reinforcement apparatus. The animal harness assembly can include a harness mounted on the animal, the harness housing a vibrotactile apparatus that can be used as a secondary reinforcement apparatus, an electronic compass that can measure orientation of the animal, and a wireless interface for communicating with the system controller assembly. The methods can include a method of training an animal using a secondary reinforcement positioned on a harness mounted on the animal, a method of concurrently training a plurality of animals, a method of detecting an unexploded landmine, and a method of demining a minefield.

Classifications:

International (IPC 8-9): A01K15/00 A01K15/02 A01K27/00 A01K5/02 F41H11/12 (Advanced/Invention)
CPC: A01K5/02 A01K27/002 A01K15/02 F41H11/132
US: 119/51.01 119/712 119/719 119/720



Family:

Publication number	Publication date	Application number	Application date
US2015128866 AA	20150514	US20130402026	20130606
WO13184936 A1	20131212	WO2013US44549	20130606

Priority:

US20120656282P 20120606 US20130402026 20130606 WO2013US44549 20130606

Probable Assignee: COHERENT TECHNICAL SERVICES INC

Assignee(s): (std): COHERENT TECHNICAL SERVICES INC ; MADORIN PATRICK A ; MYERS KEVIN P ; TRANQUILLO JOSEPH V

Inventor(s): (std): TRANQUILLO JOSEPH V ; MYERS KEVIN P ; MADORIN PATRICK A

Agent(s): WOODBURY SCOTT A 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

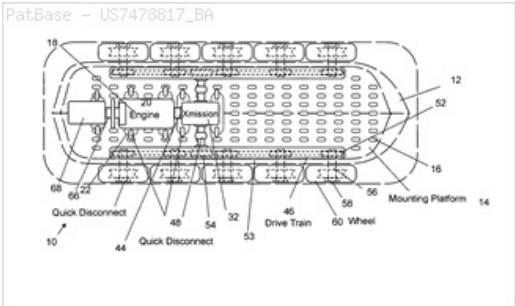
73) Family number: 42825836 (US7478817B) © PatBase

Title: ALL-TERRAIN HOSTILE ENVIRONMENT VEHICLE

Abstract: An all-terrain vehicle equipped for quick exchange of its functional components and aid units includes a frame having a mounting platform which includes a plurality of spatially positioned open surfaces, a functional unit having a quick release connector adapted to connect to the functional unit to a first part of the mounting platform, and wherein the frame is made of a polymer-matrix and metal-matrix composite.

Classifications:

International (IPC 8-9): B62D11/02 (Advanced/Invention); B60F3/00 (Advanced/Non-invention)
CPC: B60F3/003 B60F2301/04 B62D9/00 B62D11/08 B63C13/00 F41H7/02 F41H7/03
European: L60F301/04
US: 169/52 180/6.2 180/6.48 280/6.2 280/6.48 440/12.5



Family:

Publication number	Publication date	Application number	Application date
US7478817 BA	20090120	US20050161750	20050815

Priority:

US20040601451P 20040813 US20050161750 20050815

Probable Assignee: CARSAF LLC

Assignee(s): (std): CARSAF LLC

Inventor(s): (std): CARRIER BRIAN
Agent(s): GRAHAM R WILLIAM; R WILLIAM

74) Family number: 43706839 (US2009223355A)

© PatBase

Title: ON-SITE LAND MINE REMOVAL SYSTEM

Abstract: A method of deactivating land mines buried in ground comprises projecting high-pressure water jets into ground, cutting through ground with the high-pressure water jets, and making at least one cut through a land mine or cutting through at least one land mine that had been under the ground, the cutting of the land mine reducing the performance of the land mine. The method may reduce the performance of the land mine by rendering the land mine inactive to normal detonation procedures for the land mine. To reach as many surface areas on the buried landmines, it is preferable that at least two high-pressure water jets are spaced apart are used to cut through the ground. The method may be practiced with the high-pressure water jet being carried on a vehicle and cutting is done in a line that is formed at least in part by movement of the vehicle over the ground while the high-pressure water jet is cutting ground. An apparatus for the reduction in effectiveness of land mines buried in ground may comprise a self-contained push-cart unit or a unit attached or attachable to a vehicle. A complete system could comprise a vehicle having a source of liquid, a high-pressure pump to move the liquid under high pressure, a nozzle directing a liquid jet path for the liquid, a support for the nozzle, abrasive delivery system, and nozzle being controllable to direct the liquid towards the ground while the nozzle is fixed relative to the vehicle.

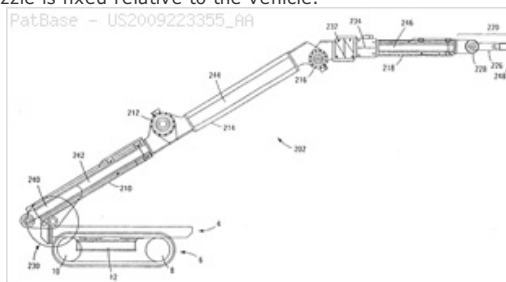
Classifications:

International (IPC 8-9): B64D1/04 F41H11/12 (Advanced/Invention); B64D1/00 F41H11/00 (Core/Invention)

CPC: F41H11/32 F41B9/0031 F41B9/0087 F42B33/062 F42D5/04

European: F41B9/00B4 F41B9/00L F41H11/16 F42B33/06B F42D5/04

US: 102/402 86/50 89/1.13 89/11.3



Family:

Publication number	Publication date	Application number	Application date
US2009223355 AA	20090910	US20060430774	20060509
US7600460 BB	20091013	US20060430774	20060509

Priority:

US20060430774 20060509

Probable Assignee: MANDERS STEPHEN M

Assignee(s): (std): MANDERS STEPHEN M

Inventor(s): (std): MANDERS STEPHEN M

Agent(s): MARK A LITMAN AND ASSOCIATES PA SUITE 205; MARK A LITMAN AND ASSOCIATES PA

75) Family number: 14709844 (NO983634L)

© PatBase

Title: MINERYDDINGSPLUG

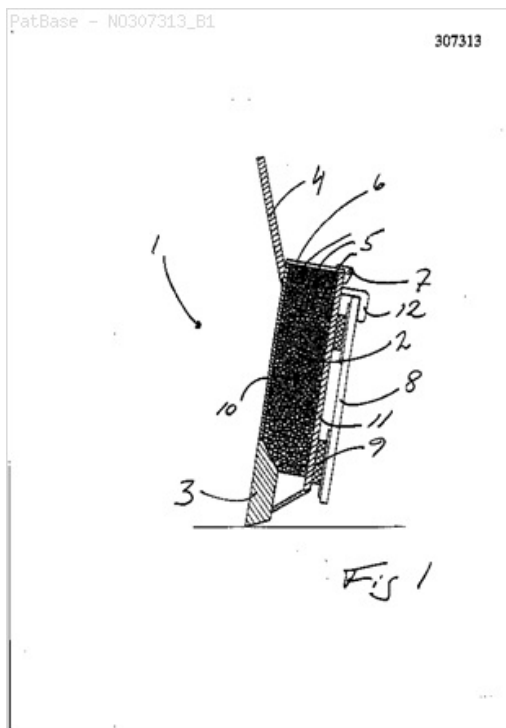
Abstract: Source: NO307313B [NO] 1. Plog (1) for rydding av miner fra faste, særlig hårde overflater, bestående av et rammeverk (22) med påmontert(e) frontskjær, karakterisert ved at plogens (1) frontskjær består av i det vesentlige rektangulær(e) beholder(e) (2) med en fylling av et fast, partikkelformig materiale (5) med høy energi-opptagelses- evne.
Machine translation: 1 Plough (1) for clearing mines from fixed, particularly hard surfaces, comprising a frame (22) with attachments (e) front blade, characterized in that the plow (1) front blade consists of substantially rectangular (e) container (s) (2) with a filling of a solid particulate material (5) with high energy uptake capability.

Classifications:

International (IPC 8-9): F41H11/28 (Advanced/Invention); F41H (Subclass/Invention)

International (IPC 1-7): F41H11/12

CPC: F41H11/28

**Family:**

Publication number	Publication date	Application number	Application date
NO307313 B1	20000313	NO19980003634	19980807
NO983634 A	20000208	NO19980003634	19980807
NO983634 A0	19980807	NO19980003634	19980807
NO983634 L	20000208	NO19980003634	19980807

Priority:

NO19980003634 19980807

Probable Assignee: FORSVARETS FORSKNINGS**Assignee(s):** (std): FORSVARETS FORSKNINGS

Assignee(s): FORSVARETS FORSKNINGSINSTITUTT AVDELING FOR VAAPEN ; FORSVARETS FORSKNINGSINSTITUTT AVDELING FOR VAAPEN OG MATERIELL ; FORSVARETS FORSKNINGSINSTITUTT AVDELING FOR VOPEN ; FORSVARETS FORSKNINGSINSTITUTT AVDELING FOR VOPEN OG ; FORSVARETS FORSKNINGSINSTITUTT AVDELING FOR VOPEN OG MATERIELL

Inventor(s): (std): FYKSE HAAKON ; SVINSOS EIRIK ; Vinsaas EIRIK ; YKSE HAAKON

76) Family number: 30053885 (US2005289662A)

© PatBase

Title: REPORTER SYSTEM FOR PLANTS

Abstract: A reporter system capable of giving rise to a directly monitorable phenotypic trait in a plant, in the presence of an outer stimulus such as for example a pollutant, is provided. The system optionally also has the ability to remediate soil. Genetically modified plants comprising said reporter system and optionally the remediation capability, a process for detection of soil pollution and optionally for bioremediating soil by employing said genetically modified plants, as well as the use of genetically modified plants for monitoring soil pollution and optionally for bioremediating soil are also provided.

Classifications:**International (IPC 8-9):** A01H5/00 C12N15/09

C12N15/82 (Advanced/Invention);

A01H5/00 C12N15/09 C12N15/82 (Core/Invention);

C12N (Subclass/Non-invention)

International (IPC 1-7): A01H1/00 A01H5/00 B09C1/10 C12N15/09 C12N15/82**CPC:** F41H11/132 C12N15/8212 C12N15/8238 C12N15/8259

C12N15/8271

European: C12N15/82A8D20 C12N15/82B24B C12N15/82C4E

C12N15/82C8B F41H11/12

US: 435/468 800/278

Fig-1.

Family:

Publication number	Publication date	Application number	Application date
AU2003240150 AA	20031212	AU20030240150	20030530
AU2003240150 BB	20081030	AU20030240150	20030530
CN1656228 A	20050817	CN20038012436	20030530
EP1511847 A1	20050309	EP20030732765	20030530
IN03834DN2004 A	20070810	IN2004DN03834	20041203
JP2005534292 T2	20051117	JP20040507508T	20030530
NZ536874 A	20050324	NZ20030536874	20030530
US2005289662 AA	20051229	US20030515988	20030530
WO03100068 A1	20031204	WO20031B02081	20030530
ZA200409782 A	20060830	ZA20040009782	20041202

Priority:

DK20020000823 20020529 WO2003IB02081 20030530

Probable Assignee: ARESA BIODETECTION APS

Assignee(s): (std): ARESA BIODETECTION APS ; MEIER CARSTEN

Inventor(s): (std): CARSTEN MEIER ; MEIER CARSTEN

Agent(s): MILLS OAKLEY LAWYERS; MILLS OAKLEY; GABOR L SZEKERES, LAW OFFICES OF GABOR L SZEKERES; GABOR L SZEKERES LAW OFFICES OF GABOR L SZEKERES

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 NI NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TA TB TD TF TG TJ TM TN TR TT UA UG UZ VN VU VY VM ZM ZN ZZ

77) Family number: 49885888 (US2013036537A)

Title: SCALABLE AND MODULAR PROTECTIVE GARMENT SYSTEM

Abstract: A protective garment system for a user including a cummerbund having a shoulder harness connected to a wraparound waist portion, and at least one connector device operatively attached to the cummerbund. The protective garment further includes one or more upper body modular protective elements and one or more lower body modular protective elements, with at least one of the lower body modular protective elements to the cummerbund by the connector device.

Classifications:

International (IPC 8-9): A41D13/00 A41D13/015 A41D13/15

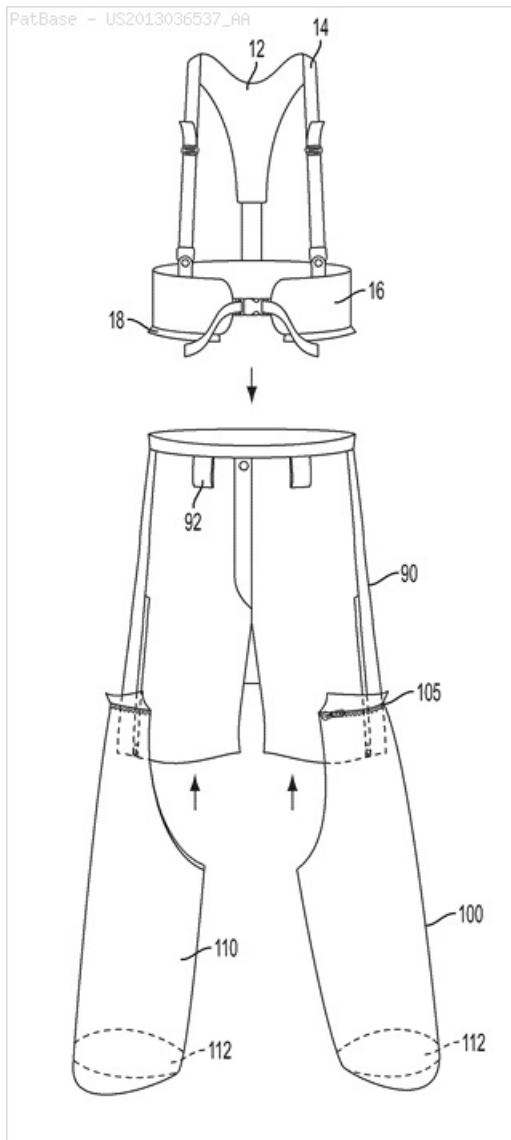
A41D27/00 A44B99/00 F41H1/02 F41H5/08 (Advanced/Invention)

International (IPC 1-7): A41D13/00 A41D13/015 F41H1/02 F41H5/08

CPC: F41H1/02 A41D13/015

European: F41H1/02 K41D13/015

US: 2/456

**Family:**

Publication number	Publication date	Application number	Application date
AU2010351968 AA	20111103	AU20100351968	20100427
BR112012025798 A2	20171128	BR20121125798	20100427
CA2796467 AA	20121016	CA20102796467	20100427
CA2796467 C	20131224	CA20102796467	20100427
CO6640240 A2	20130322	CO20120212167	20121123
EP2563175 A1	20130306	EP20100850423	20100427
EP2563175 A4	20150708	EP20100850423	20100427
JP2013527886 T2	20130704	JP20130506418T	20100427
KR20130097637 A	20130903	KR20127030228	20100427
US2013036537 AA	20130214	US20100641728	20100427
WO11134037 A1	20111103	WO2010CA00602	20100427

Priority:

WO2010CA00602 20100427 CO20120212167 20121123

Probable Assignee: MED ENG LLC

Assignee(s): (std): ALLEN VANGUARD CORP ; BELAND ROB ; REYNOLDS ROB ; SLOBOZIANU MAGDA

Assignee(s): WILMINGTON TRUST NATIONAL ASSOCIATION ; SAFARILAND LLC ; MED ENG LLC ; MUSTANG SURVIVAL ULC ; BANK OF AMERICA NA AGENT AS

Inventor(s): (std): BELAND ROB ; MAGDA SLOBOZIANU ; REYNOLDS ROB ; ROB BELAND ; ROB REYNOLDS ; SLOBOZIANU MAGDA

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MCMILLAN LLP; LUZ HELENA ADARVE GOMEZ; PFENNING MEINIG AND PARTNER GBR; BISMILLA YASIN ET AL

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 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 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

Abstract: An ultrasensitive method for detecting non-aromatic non-planar nitroamine analytes in a sample is provided.

Classifications:

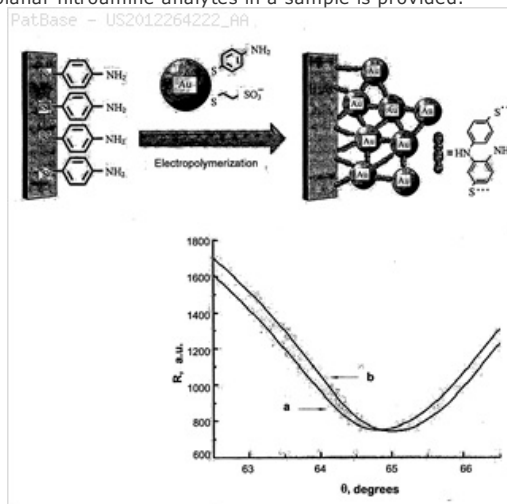
International (IPC 8-9): B82Y30/00 G01N G01N21/55 G01N27/22 G01N33/00 G01N33/22 (Advanced/Invention); B82Y15/00 (Advanced/Non-invention)

CPC: Y10T436/14 Y10T436/145555 Y10T436/147777

Y10T436/173845 G01N33/0057 G01N21/554 G01N2600/00

European: G01N33/00D2D4M S01N21/55B2N S01N600/00

US: 422/68.1 422/82.01 436/111 436/91 436/96 436/98 977/773 977/810 977/902



Family:

Publication number	Publication date	Application number	Application date
EP2510350 A2	20121017	EP20100801709	20101207
IL202569 A0	20101031	IL20090202569	20091207
US2012264222 AA	20121018	US20100512380	20101207
US8597956 BB	20131203	US20100512380	20101207
WO11070572 A2	20110616	WO2010IL01033	20101207
WO11070572 A3	20111006	WO2010IL01033	20101207

Priority:

IL20090202569 20091207 WO2010IL01033 20101207

Probable Assignee: YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM LTD

Assignee(s): (std): RISKIN MICHAEL ; TEL VERED RAN ; WILLNER ITAMAR ; YISSUM RES DEV CO

Assignee(s): YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF J ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM LTD ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREWUNIVERSITY OF JERUSALEM LTD

Inventor(s): (std): RISKIN MICHAEL ; TEL VERED RAN ; WILLNER ITAMAR

Agent(s): DUFFY ASSUMPTA DYPNNA; MARTIN; PAUL D; FLEIT GIBBONS GUTMAN BONGINI AND BIANCO PL; REINHOLD COHN AND PARTNERS

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 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 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

79) Family number: 63599904 (US2016274235A)

© PatBase

Title: BURIED OBJECT DETECTION SYSTEM

Abstract: An acoustic ground coupling device comprises a housing compartment filled with particulate material. The housing compartment further comprises at least one acoustic source for generating an acoustic signal and at least one acoustic sensor that detects, for example, back-scattered acoustic signals from the ground.

Classifications:

International (IPC 8-9): G01S15/04 G01S15/88 (Advanced/Invention)

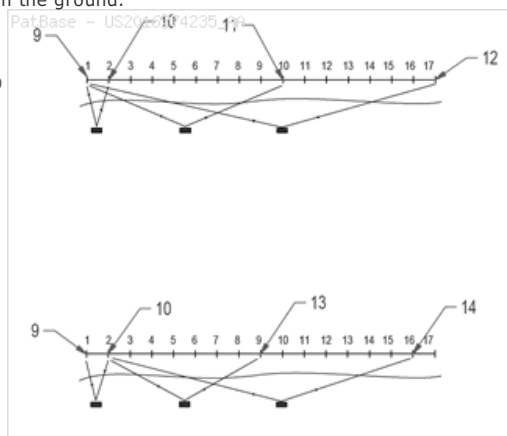
CPC: G01S15/88 G01S7/539 G01S15/876 G01S15/89 G01V1/005

G01V1/047 G01V1/053 G01V1/143 G01V1/166 G01V1/18 G01V1/189

G01V1/284 G01V1/288 G01V1/306 G01V2210/121 G01V2210/1295

G01V2210/1425 G01V2210/169 G01V2210/6242

US: 367/93



Family:

Publication number	Publication date	Application number	Application date
US2016274235 AA	20160922	US20160076533	20160321

Priority:

US20150135897P 20150320 US20160076533 20160321

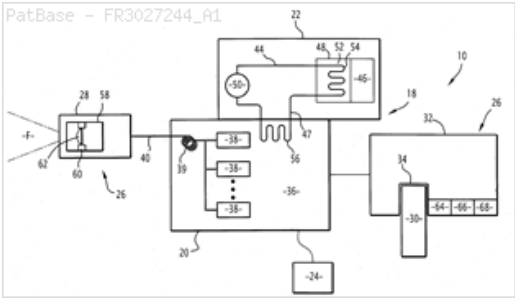
Probable Assignee: REECE INNOVATION CENTRE LTD
Assignee(s): (std): REECE INNOVATION CENTRE LTD
Inventor(s): (std): TAMADONI REZA ; SILLS REBECCA MELANIE ; MARTIN JAMES EDWARD ; WILKINSON ALEXANDER JAMES ; KIANI SAEED ; FERBER RALF ; GRIFFITHS LUKE

80) Family number: 62185910 (FR3027244B) © PatBase

Title: SYSTEME DE DECOUPE OU DE PERFORATION A DISTANCE

Abstract: Source: FR3027244A [FR] L'invention concerne un systeme (10) de decoupe ou de perforation a distance comprenant: - une source laser (20) propre a emettre une puissance optique superieure ou egale a 200 W, - une unite de refroidissement (22) comprenant une boucle de refroidissement (44) comportant: • un echangeur (48), • une pompe (50) propre a assurer la circulation d'un fluide de refroidissement dans la boucle de refroidissement (44), et • un tampon (52) thermique en contact avec l'echangeur (48), le tampon (52) etant realise en au moins un materiau a changement de phase.
Machine translation: A system (10) etched or perforation distance comprising - a laser source (20) able to be issued or a superior optical power equal to 200 W, - a cooling unit (22) comprising a cooling loop (44) comprising: • an exchanger (48), • a pump (50) adapted to ensure the circulation of a cooling fluid in the cooling loop (44), and • a buffer (52) thermal in contact with the exchanger (48), the buffer (52) being made of at least one material phase change.

Classifications:
International (IPC 8-9): B23K26/02 F41H11/16 (Advanced/Invention)
CPC: B23K26/38 B23K26/703 F41H13/0062 H01S3/042 H01S3/06704 H01S3/06754 H01S3/094003 H01S3/09415 H01S5/02248 H01S5/02284 H01S5/02438 H01S5/4012



Family:

Publication number	Publication date	Application number	Application date
FR3027244 A1	20160422	FR20140002318	20141015
FR3027244 B1	20161209	FR20140002318	20141015

Priority:

FR20140002318 20141015

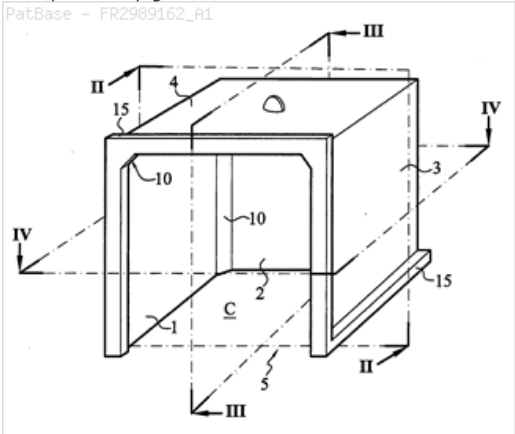
Probable Assignee: THALES SA
Assignee(s): (std): THALES SA
Assignee(s): THALES
Inventor(s): (std): BERNIGAUD THIERRY ; CLAVEAU JEAN MARC ; MARIJON ROBIN
Inventor(s): ROBIN MARIJON ; THIERRY BERNIGAUD ; JEAN MARC CLAVEAU
Agent(s): CABINET LAVOIX

81) Family number: 54967925 (FR2989162B) © PatBase

Title: CAISSON PROTECTION CONTRE L'EXPLOSION ACCIDENTELLE D'UNE CHARGE EXPLOSIVE

Abstract: The box has side walls (1-3) and an upper wall (4) delimiting a containment chamber (C). An installation opening is placed above an explosive device. Longitudinal brackets (10) are provided inside the chamber and between the side walls and between each side wall and the upper wall. Each bracket extends over length of a connection zone between edges of the walls. The walls are assembled at the edges and the brackets are connected to the walls by continuous welding. The chamber has width, length and height, each being greater than/equal to 1.80 m and preferably greater than 2.00 m.

Classifications:
International (IPC 8-9): F42D5/04 (Advanced/Invention)
CPC: F42D5/045



Family:

Publication number	Publication date	Application number	Application date
FR2989162 A1	20131011	FR20120053118	20120404
FR2989162 B1	20140704	FR20120053118	20120404

Priority:

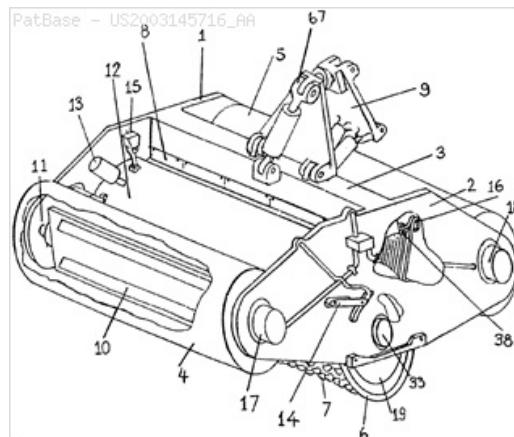
Probable Assignee: SITA REMEDIATION
Assignee(s): (std): SITA REMEDIATION
Inventor(s): (std): LECLERC FRANCK ; CAVAREC PASCAL
Inventor(s): FRANCK LECLERC ; PASCAL CAVAREC
Agent(s): CAPISTEL

82) Family number: 14578937 (US2003145716A)

© PatBase

Title: METHOD AND APPARATUS FOR THE CLEARING OF MINEFIELDS

Abstract: Clearance of a minefield is effected using first and second ground-engaging drive units (63 and 64), each of which includes a milling or grinding drum (6). The first drive unit (63) is connected to the front of a multi-purpose vehicle or tractor (62) and the second drive unit (64) is connected to the rear of the vehicle or tractor (62) to form a mine clearance apparatus which can be driven over the land to be cleared of mines with the vehicle or tractor (62) supported clear of the ground by the first and second drive units (63 and 64). The milling or grinding drum (6) of the first drive unit (63) grinds up the surface vegetation and the milling or grinding drum (6) of the second drive unit (64) grinds up a layer of soil and any anti-personnel mines contained therein.

Classifications:**International (IPC 8-9):** A01B33/02 F41H11/16 (Advanced/Invention)**International (IPC 1-7):** A01B77/00 F41F5/00 F41H11/16**CPC:** A01B33/021 F41H11/26**European:** A01B33/02B F41H11/26**US:** 89/1.13 89/1.130P**Family:**

Publication number	Publication date	Application number	Application date
AU2001237536 AA	20010827	AU20010237536	20010216
AU200137536 A1	20010827	AU20010037536	20010216
AU200137536 A5	20010827	AU20010037536D	20010216
EP1409951 A1	20040421	EP20010909948	20010216
GB200003834 A0	20000405	GB20000003834	20000219
US2003145716 AA	20030807	US20020204359	20021217
WO0161270 A1	20010823	WO2001GB00701	20010216

Priority:

GB20000003834 20000219 WO2001GB00701 20010216

Probable Assignee: DIXON ROY**Assignee(s):** (std): DIXON ROY**Assignee(s):** ROY DIXON**Inventor(s):** (std): DIXON ROY**Inventor(s):** ROY DIXON

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 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 LI 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 US UZ VN YU ZA ZW

83) Family number: 59341941 (GB2536576A)

© PatBase

Title: BURIED OBJECT DETECTION SYSTEM

Abstract: A method and apparatus for detecting buried objects comprises generating an acoustic signal and using the signal to measure the mechanical impedance of the earth. The presence of buried objects results in a change in the measured mechanical impedance. Boundary waves, such as Rayleigh, Love or Sholte waves, may be measured to determine the mechanical impedance. A plurality of acoustic sources that generate multiple acoustic signals may be provided and there may be one or more acoustic sensor. Acoustic sources and receivers can be connected to signal generation and signal processing units and devices for measuring earth movement and chemical detection may also be provided. Uses include humanitarian mine clearance, environmental geophysics and highway construction and maintenance.

Classifications:**International (IPC 8-9):** F41H11/136 G01N29/09 G01S15/88

G01V1/00 G01V1/30 (Advanced/Invention)

CPC: F41H11/136 G01S15/88 G01V1/005 G01V1/284 G01V1/288

G01V1/30 G01V2210/121 G01V2210/1295 G01V2210/1425

G01V2210/169 G01V1/001 G01S7/539 G01S15/876 G01S15/89

G01N2291/018 G01N2291/106 G01N29/09 G01V1/306

1/7

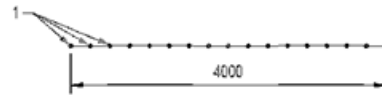


Fig. 1

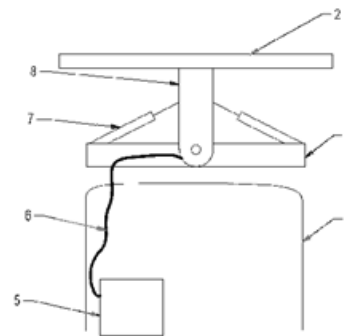


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
GB201504717 A0	20150506	GB20150004717	20150320
GB201604739 A0	20160504	GB20160004739	20160321
GB2536576 A1	20160921	GB20160004739	20160321

Priority:

GB20150004717 20150320

Probable Assignee: REECE INNOVATION CT LTD**Assignee(s):** (std): REECE INNOVATION CENTRE LTD ; REECE INNOVATION CT LTD**Inventor(s):** (std): ALEXANDER JAMES WILKINSON ; JAMES EDWARD MARTIN ; LUKE GRIFFITHS ; MELANIE REBECCA SILLS ; RALF GUNTER FERBER ; REZA TAMADONI ; SAEED KIANI**84) Family number: 14942962** (WO0071964A1)

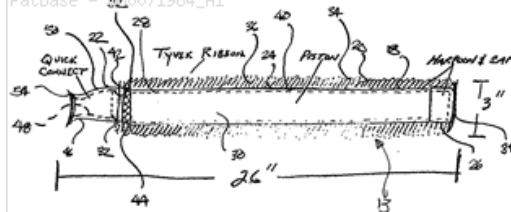
© PatBase

Title: MINE CLEARING DEVICE

Abstract: A detonating device (10) includes a hollow ribbon (20) having an interior cavity (40) defined therein, the hollow ribbon (20) being deployable along a ribbon path by means of a harpoon (18) being operably coupled to the hollow ribbon (20) and being discharged from a deployment assembly (14), the hollow ribbon (20) being fillable with an explosive material when deployed along the deployment path. A method of generating an overpressure condition along a path is included having a number of steps, including deployment of a hollow ribbon (20) along the path.

Classifications:**International (IPC 8-9):** F41H11/14 (Advanced/Invention); F41H11/00 (Core/Invention)**International (IPC 1-7):** F41H11/14**CPC:** F41H11/14**European:** F41H11/14

PatBase - WO0071964_A1

**Family:**

Publication number	Publication date	Application number	Application date
AU200070502 A1	20001212	AU20000070502	20000512
AU200070502 A5	20001212	AU20000070502D	20000512
CA2337237 AA	20010112	CA20002337237	20000512
EP1097350 A1	20010509	EP20000959129	20000512
WO0071964 A1	20001130	WO2000US13105	20000512

Priority:

US19990133985P 19990513

WO2000US13105 20000512

Probable Assignee: BRISANT TECHNOLOGIES INTERNAT**Assignee(s):** (std): BRISANT TECHNOLOGIES INTERNAT ; BRISANT TECHNOLOGIES INTERNATI ; BRISANT TECHNOLOGIES INT**Assignee(s):** BRISANT TECHNOLOGIES INT LLC ; BRISANT TECHNOLOGIES INTERNATIONAL LLC ; BROWN JAMES M ; MANDERS STEPHEN ; BROWN MICHAEL T**Inventor(s):** (std): MANDERS STEPHEN ; BROWN MICHAEL T ; BROWN JAMES M**Inventor(s):** JAMES M BROWN ; MICHAEL T BROWN ; STEPHEN MANDERS

Agent(s): FURMAN AND KALLIO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN 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 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

85) Family number: 63802973 (FR3034857A)

© PatBase

Title: UN PROCEDE DE DETECTION DES MINES ET DES MUNITIONS NON EXPLOSEES A METHOD FOR DETECTION OF MINES AND AMMUNITION NOT EXPLOSEES (Machine translation)

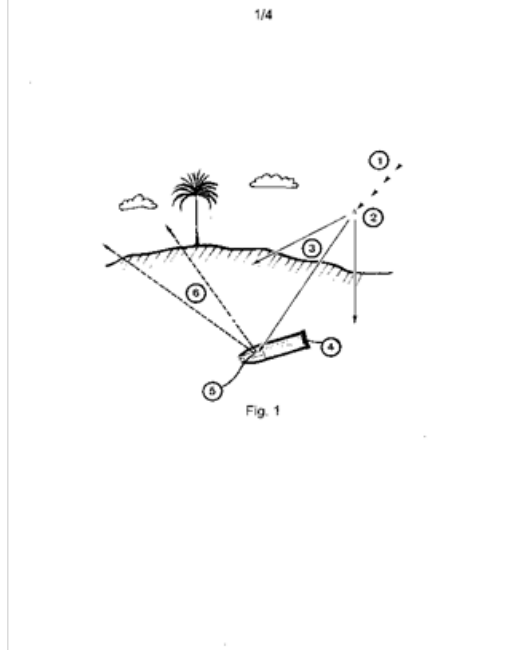
Abstract: Source: FR3034857A [FR] L'invention relève du domaine de la détection des particules appliquée à la recherche des munitions enfouies. Le problème des munitions anciennes enfouies dans le sol est un problème particulièrement grave dans de nombreux pays. L'invention améliore la détection des neutrons dans le but de détecter les neutrons émis par les munitions enterrées à la suite de la série de réactions suivantes: un rayon cosmique primaire (1) frappe un noyau d'un atome de l'atmosphère terrestre (2) et une gerbe de rayons cosmiques secondaires est émise (3) Ces rayons cosmiques secondaires vont frapper le détonateur (5) d'une munition enterrée (4) provoquant la spallation des noyaux lourds de plomb, de mercure et d'or contenu dans celui-ci. Quelques neutrons (6) sont émis et diffusent vers la surface. On détecte les neutrons grâce à l'effet Szilard-Chalmers. L'invention porte sur la séparation en continu des noyaux de manganèse 56 contenu dans la solution servant à la détection des neutrons. **Machine translation:** The invention statement in the field of applied detection of particles in search of the buried munitions. The problem of old ammunition buried in the ground is a particularly serious problem in many countries. The invention improved the detection of neutrons in order to detect neutrons emitted by buried as a result of the series of reactions following ammunition: a primary cosmic ray (1) hits a nucleus of an atom of the terrestrial atmosphere (2) and a sheaf of secondary cosmic rays is emitted (3) these secondary cosmic rays will hit the detonator (5) a munition buried (4) causing the spallation of heavy nuclei of lead Mercury and gold in it. A few (6) neutrons are emitted and diffuse to the surface. We detected neutrons through the Szilard-Chalmers effect. The door invention on separation in continuous of the nuclei of manganese 56 content in the serving solution has the detection of neutrons.

Classifications:

International (IPC 8-9): F41H11/12 G01N23/20 G01N23/222
G01V5/00 (Advanced/Invention)
CPC: G01V5/0016 F41H11/136

PatBase - FR3034857_A1

3034857



Family:

Publication number	Publication date	Application number	Application date
FR3034857 A1	20161014	FR20150000735	20150410

Priority:

FR20150000735 20150410

Probable Assignee:

DAVID FABRICE

Assignee(s): (std):

DAVID FABRICE

Assignee(s):

FABRICE DAVID

Inventor(s): (std):

DAVID FABRICE

Inventor(s):

FABRICE DAVID

Agent(s):

FABRICE DAVID

86) Family number: 66518979 (WO18224831A1)

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Title: APPARATUS AND METHOD FOR SHOCK TESTING LIVE ORDNANCE

Abstract: A shock testing apparatus comprising: an impact table for supporting an object to be tested; a base structure; an impact member support structure; one or more impact members; wherein the or each impact member is pivotally mountable to the impact member support structure at a location above the impact table by means of a swing arm; and wherein the impact table is movably mountable upon the base structure; wherein motion of the impact table relative the base structure upon impact of the one or more impact members is damped by one or more damping members located intermediate said

impact table and the base structure.

Classifications:

International (IPC 8-9): G01M7/08 (Advanced/Invention)

CPC: G01M7/08

PatBase - W018224831_A1

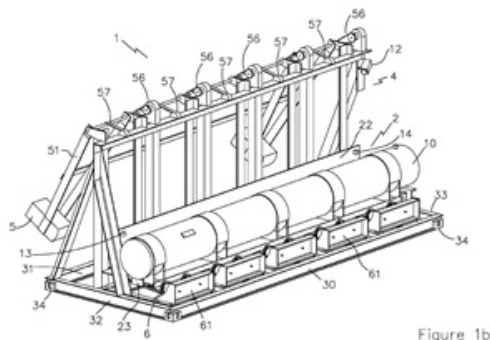


Figure 1b

Family:

Publication number	Publication date	Application number	Application date
GB201709010 A0	20170719	GB20170009010	20170606
GB201809325 A0	20180725	GB20180009325	20180606
GB2565206 A1	20190206	GB20180009325	20180606
WO18224831 A1	20181213	WO2018GB51548	20180606

Priority:

GB20170009010 20170606

Probable Assignee: THORNTON TOMASETTI DEFENCE LTD

Assignee(s): (std): THORNTON TOMASETTI DEFENCE LTD

Inventor(s): (std): ALEXANDER WHATLEY ; BALMAIN JOHN K ; COLLIAR GAVIN ; GAVIN COLLIAR ; JOHN K BALMAIN ; PHILLIP R THOMPSON ; THOMPSON PHILLIP R ; WHATLEY ALEXANDER

Agent(s): MURGITROYD AND CO

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

87) Family number: 20786987 (US6777684B)

© PatBase

Title: SYSTEMS AND METHODS FOR MILLIMETER AND SUB-MILLIMETER WAVE IMAGING

Abstract: In one aspect, the present invention provides an apparatus 10 for imaging. At least one source 12 (or 12/14) of composite radiation illuminates a field of view 16. The radiation includes a set of multiple phase-independent partials that are independently controllable and exhibit distinct physical features. A quasi-optical element 21 is disposed between the field of view 16 and a multi-element receiver 18. The multi-element receiver 18 is disposed to receive image radiation 28 from the quasi-optical element 21. Particular ones of the receiver elements transform the image radiation 28 into a set of electrical signals that include information relating to features of the partials.

Classifications:

International (IPC 8-9): G01N21/35 G01S13/89 G01S7/02 G01S7/41

G01V8/00 G06T11/00 (Advanced/Invention);

G01N21/31 G01S13/00 G01S7/02 G01V8/00

G06T11/00 (Core/Invention)

International (IPC 1-7): G01N21/01 G01S13/00 G02F1/29 G06T

H04J14/02

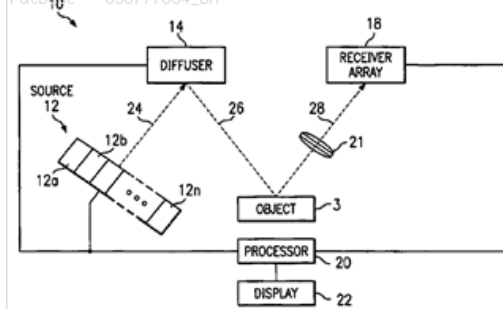
CPC: G01N21/3563 G01S13/887 G01N21/3581 G01N21/359

G01S7/024 G01S7/41 G01S13/89 G01V8/005

European: S01N21/35F

US: 250/341.1 342/179 343/915

PatBase - US6777684_BA



Family:

Publication number	Publication date	Application number	Application date
AU2001285167 AA	20020304	AU20010285167	20010822
AU200185167 A1	20020304	AU20010085167	20010822
AU200185167 A5	20020304	AU20010085167	20010822
US6777684 BA	20040817	US20000644817	20000823
WO0217231 A2	20020228	WO2001US26159	20010822
WO0217231 A3	20020516	WO2001US26159	20010822

Priority:

US19990150397P 19990823

US20000644817 20000823

WO2001US26159 20010822

Probable Assignee: ROSE RESEARCH LLC

Assignee(s): (std): ROSE RES L L C ; ROSE RES LLC

Assignee(s): ROSE RESEARCH L L C ; ROSE RESEARCH LLC ; ROSE RESEARCH LLC SUITE

Inventor(s): (std): STIENS JOHAN ; VOLKOV LEONID

Inventor(s): JOHAN STIENS ; LEONID VOLKOV

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

88) Family number: 70167989 (WO18107285A1)

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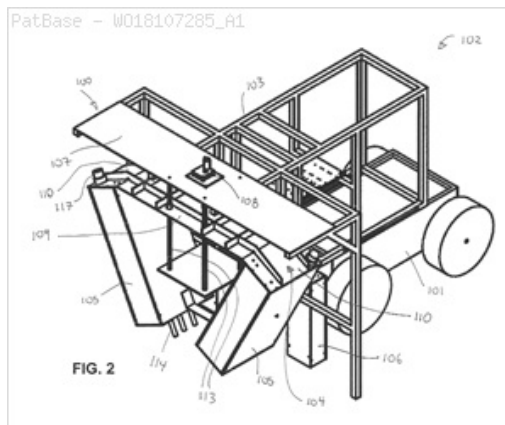
Title: LANDMINE EXCAVATOR AND NEUTRALIZER AND RELATED METHODS

Abstract: Clearing landmines is a dangerous activity and the danger is increased when trying to clear a landmine without triggering an explosion. An excavator for landmines is provided, which includes a first actuator that vertically moves a mounting plate. Two or more secondary actuators are mounted to the mounting plate, and each of the secondary actuators are able to extend and retract a tool. Each respective tool has drill bits or prongs for penetrating a ground surface. A neutralizer is also provided, and it includes: a robotic clamp to grip a landmine and to reposition the same; a cutting tool to cut an opening into the landmine; a steaming module to eject steam into the opening; and a catcher to collect melted explosive material that exits the landmine.

Classifications:

International (IPC 8-9): F41H11/16 F41H11/20 (Advanced/Invention)

CPC: F41H11/26 F41H11/16 F41H11/20 F41H11/24



Family:

Publication number	Publication date	Application number	Application date
WO18107285 A1	20180621	WO2017CA51506	20171212

Priority:

US20160433404P 20161213

Probable Assignee: DEMINE ROBOTICS INC

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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

89) Family number: 72969993 (IN201711024394A)

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Title: A PROTECTIVE SOLE FOR A BOOT

Abstract: The present disclosure relates to a protective sole (2) for a boot (1). The sole (2) comprises a first insert (3) accommodated in a heel side portion (4) of the sole (2) and a second insert (5) accommodated in a ball side portion (6) of the sole (2). The first insert (3) comprises at least a layer of ceramic honeycomb, at least a layer FRP deflector and at least a layer of composite. The second insert (5) comprises at least a layer of ceramic honeycomb and at least a layer of woollen felt.

Classifications:

International (IPC 8-9): A43B13/12 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201711024394 A	20190118	IN201711024394	20170711

Priority:

IN201711024394 20170711

Probable Assignee: DIRECTOR GENERAL DEFENCE R AND D ORGANISATION

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90) Family number: 11399998 (WO9939154A1)

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Title: DEVICE FOR RECUPERATING OR DESTROYING EXPLOSIVE DEVICES ON SITE

Abstract: The invention concerns a device for recuperating or destroying on site explosive devices in the ground,

characterised in that it comprises a shielded caisson (1) having, in its top part, an orifice (7) connected to a suction device to produce, inside the caisson, a vacuum, and in its lower part, an electromagnet (12) to attract upwards, inside the shielded caisson (1), an explosive device made of magnetic ferrous material.

Classifications:

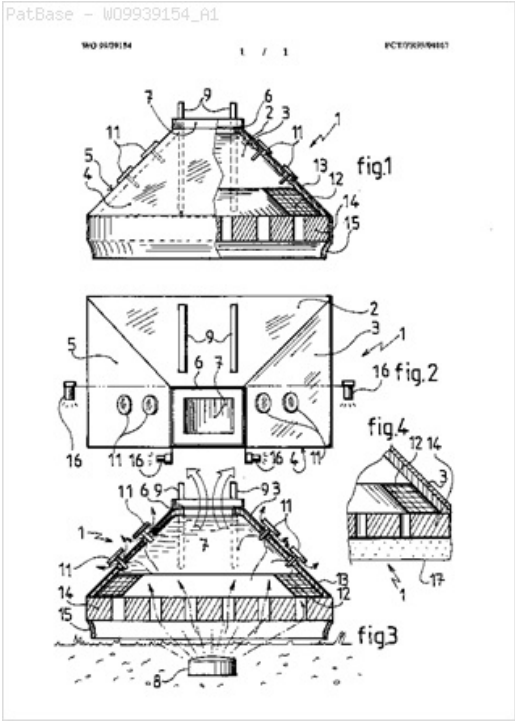
International (IPC 8-9): B66C1/02 B66C1/06

F41H11/12 (Advanced/Invention)

International (IPC 1-7): B66C1/02 B66C1/06 F41H11/12 F42D5/02 F42D5/04

CPC: F42D5/045 B66C1/0212 B66C1/0281 B66C1/0293 B66C1/06 F41H11/12

European: B66C1/02 B66C1/02C B66C1/02R B66C1/02U B66C1/06 F41H11/12



Family:

Publication number	Publication date	Application number	Application date
AT219235 E	20020615	AT19990901644T	19990128
AU199921680 A1	19990816	AU19990021680	19990128
DE69901788 D1	20020718	DE19996001788	19990128
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FR2774161 A1	19990730	FR19980000984	19980129
FR2774161 B1	20000317	FR19980000984	19980129
WO9939154 A1	19990805	WO1999FR00167	19990128

Priority:

FR19980000984 19980129 WO1999FR00167 19990128

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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 GD GE GH GM GN GR GW HR HU ID IE IL IN 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