

1) Family number: 62412860 (WO16077848A3)

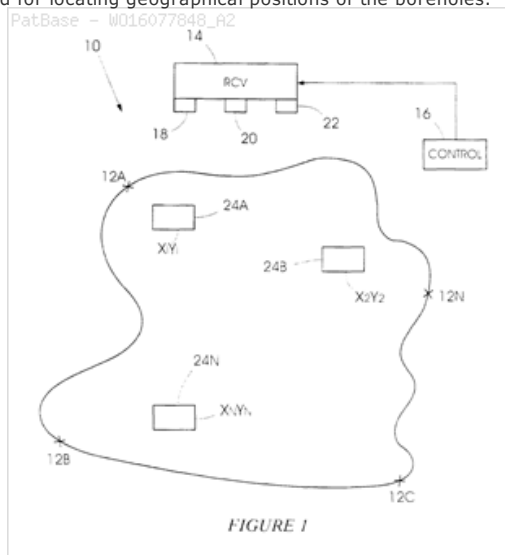
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Title: USE OF A REMOTELY CONTROLLED VEHICLE IN A BLASTING OPERATION

Abstract: A blasting system including a plurality of detonators located in respective boreholes, which is implemented through the use of a remotely controlled vehicle used for survey purposes and for locating geographical positions of the boreholes.

Classifications:

International (IPC 8-9): B64C39/02 B64D1/00 F42D1/055 F42D1/08 F42D5/00 F42D99/00 (Advanced/Invention); H04B7/185 (Advanced/Non-invention); F42D5/00 (Core/Invention)
International (IPC 1-7): F42D1/055 F42D1/08 F42D5/00
CPC: F42D1/055 F42D1/08 F42D5/00



Family:

Publication number	Publication date	Application number	Application date
AR102626 AA	20170315	AR2015P103684	20151111
AU2015346052 AA	20160519	AU20150346052	20151029
BR112017009913 A2	20180116	BR20171109913	20151029
CA2966518 AA	20170501	CA20152966518	20151029
CL2017001179 A1	20171124	CL20170001179	20170510
CO20170005069 A2	20170728	CO20170005069	20170522
EP3218667 A2	20170920	EP20150856163	20151029
ID201800057 A	20180112		00000000
MX2017006121 A1	20170918	MX20170006121	20151029
WO16077848 A2	20160519	WO2015ZA50018	20151029
WO16077848 A3	20160811	WO2015ZA50018	20151029

Priority:

ZA20140008222 20141111 WO2015ZA50018 20151029

Probable Assignee: DETNET SOUTH AFRICA PTY LTD

Assignee(s): (std): DETNET SOUTH AFRICA PTY LTD

Assignee(s): KOEKEMOER ANDRE ; MULLER ELMAR LENNOX ; VAN WYK RIAAN ; VENTER FRANCOIS ; WATT TREVOR ; BIRKIN CHRIS

Inventor(s): (std): ANDR KOEKEMOER ; ANDRE KOEKEMOER ; BIRKIN CHRIS ; CHRIS BIRKIN ; ELMAR LENNOX MULLER ; FRANCOIS VENTER ; KOEKEMOER ANDRE ; MULLER ELMAR LENNOX ; RIAAN VAN WYK ; TREVOR WATT ; VAN WYK RIAAN ; VENTER FRANCOIS ; WATT TREVOR

Agent(s): GRIFFITH HACK; OYEN WIGGS GREEN AND MUTALA LLP; ALESSANDRI Y COMPANIA; HASBLEYDI LIZBETH CALVO ROJAS; PATENTANWALTE RUFF WILHELM BEIER DAUSTER AND PARTNER MBB; MCCALLUM RADEMEYER AND FREIMOND 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 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

2) Family number: 34207001 (US2007035304A)

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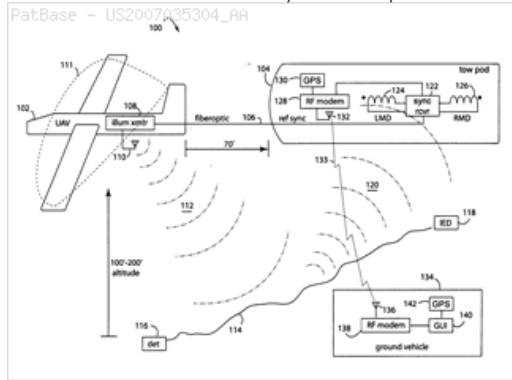
Title: AERIAL ELECTRONIC DETECTION OF SURFACE AND UNDERGROUND THREATS

Abstract: Source: US2007035304A [EN] An aerial electronic system for detection of surface and underground threats comprises an electromagnetic (EM) gradiometer flown aloft over the possible ground and underground threats to a convoy. The EM gradiometer is disposed in a Styrofoam torpedo shaped pod that is towed in flight behind an airplane. An illumination transmitter and loop antenna mounted to the airplane radiate a primary EM wave that travels down to the ground surface and penetrates beneath. Frequencies of 80 KHz to 1 MHz are selected according to whether the targets are laying on the surface or deeply buried. Detonation wire pairs, buried cables and pipes, and other conductors will re-radiate a secondary wave that can be sensed by the EM gradiometer. A reference sample of the transmitter signal is carried down a fiberoptic from the

airplane to the towed pod. This signal is used in the synchronous detection to measure the secondary EM wave phase.

Classifications:

International (IPC 8-9): E21C35/08 G01S13/00 G01S13/32
G01S13/88 G01S13/89 G01V3/12 G01V3/16 (Advanced/Invention);
E21C35/00 G01S13/00 G01V3/12 G01V3/15 (Core/Invention)
CPC: G01V3/17 G01S13/89 E21C27/24 E21C35/08 G01S7/4052
G01S7/4056 G01S13/32 G01S13/885 G01S2007/4082 G01S7/02
E21C35/24 G01S13/34 G01V3/12
European: E21C27/24 E21C35/08 E21C35/24 G01S13/32
G01S13/34 G01S13/89 G01S7/02 G01V3/12 G01V3/17 G01S13/88D
US: 299/1.2 299/1.200P 324/329 324/330 324/337 324/344 342/129
342/159 342/179 342/22



Family:

Publication number	Publication date	Application number	Application date
US2007035304 AA	20070215	US20060405602	20060417
US2008185903 AA	20080807	US20080053611	20080323
US2008218170 AA	20080911	US20070876367	20071022
US2008218400 AA	20080911	US20070877655	20071023
US2009167589 AA	20090702	US20060478757	20060629
US7336079 BB	20080226	US20060405602	20060417
US7548181 BA	20090616	US20060478757	20060629
US7629790 BB	20091208	US20070876367	20071022
US7656342 BB	20100202	US20070877655	20071023
US7659847 BB	20100209	US20080053611	20080323

Priority:

US20050671946P 20050418 US20060405602 20060417 US20060478757 20060629
US20060853538P 20061023 US20070876367 20071022 US20070877655 20071023
US20080053611 20080323

Probable Assignee: STOLAR INC

Assignee(s): (std): BAUSOV IGOR ; BEARD BEAUX ; BOTLA LAXMI N ; BOTLA LAXMI NARAYANA ; MAIN RICHARD B ; MYERS JOHN ; TROUBLEFIELD ROBERT ; STOLARCZYK GERALD L ; STOLARCZYK LARRY G ; SANCHEZ TITO ; VALENTINE CHANCE ; STOLAR INC

Inventor(s): (std): BAUSOV IGOR ; BAUSOV IGOR Y ; BEARD BEAUX ; MAIN RICHARD B ; MYERS JOHN ; SANCHEZ TITO ; BOTLA LAXMI N ; BOTLA LAXMI NARAYANA ; STOLARCZYK GERALD L ; STOLARCZYK LARRY G ; TROUBLEFIELD ROBERT ; VALENTINE CHANCE

Inventor(s): STOLARCZYK LARRY ; MAIN RICHARD ; STOLARCZYK GERALD ; BOTLA LAXMI

Agent(s): PATENTS PENDING; RICHARD B MAIN ESQ PATENTS PENDING; MAIN RICHARD B; RICHARD B

3) Family number: 67244845 (WO17181207A1)

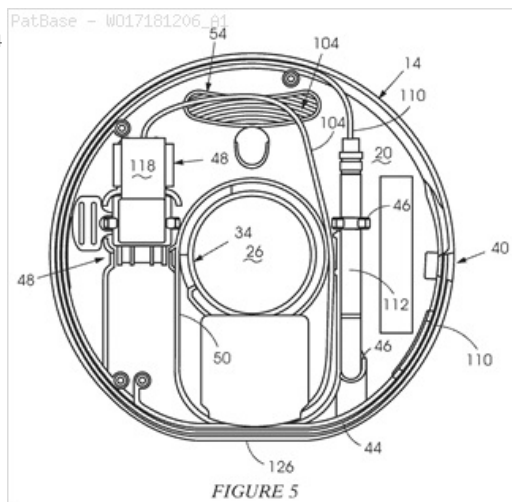
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Title: APPARATUS FOR USE IN A BLASTING SYSTEM

Abstract: A spool for use in a blasting system which carries a coiled signal-transmitting conductor which is connected at one end to a detonator and at an opposed end to a connector.

Classifications:

International (IPC 8-9): B65H49/32 B65H75/28 B65H75/44 F42D1/04
F42D1/22 (Advanced/Invention);
B65H75/14 B65H75/22 (Advanced/Non-invention)
CPC: F42D1/04 B65H75/14 B65H75/22 B65H75/28 F42D1/22
B65H49/32 B65H75/4484 G02B6/4457 B65H2701/534



Family:

Publication number	Publication date	Application number	Application date
WO17181206 A1	20171019	WO2017ZA50018	20170406
WO17181207 A1	20171019	WO2017ZA50020	20170407

Priority:

ZA20160002408 20160411 ZA20170000448 20170119

Probable Assignee: DETNET SOUTH AFRICA PTY LTD

Assignee(s): (std): DETNET SOUTH AFRICA PTY LTD

Inventor(s): (std): CRICHTON ANDRE ; KRUGER JOHANNES PETRUS ; KRUGER MICHEL JACOBUS ; MULLER ELMAR LENNOX ; MYNHARDT PIERRE DE VOS ; OLWAGE PHILLIP

Agent(s): MCCALLUM RADEMEYER AND FREIMOND ET AL

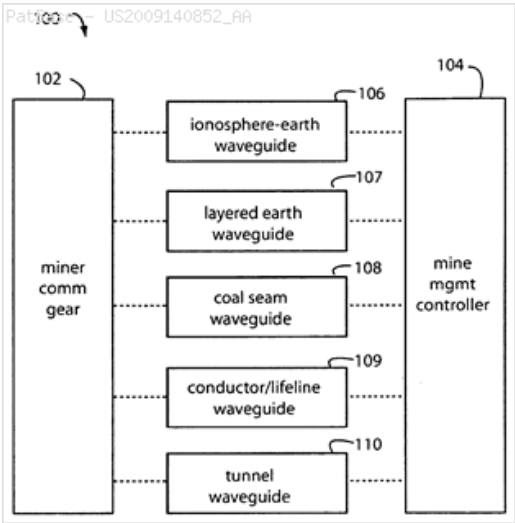
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR 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

4) Family number: 43349640 (US2009140852A) © PatBase

Title: UNDERGROUND RADIO COMMUNICATIONS AND PERSONNEL TRACKING SYSTEM

Abstract: Source: US2009140852A [EN] An underground radio communications and personnel tracking system uses a portable communications device worn by a miner when underground in a mine. A cap-lamp transceiver provides voice and text communication on ultra-low frequency (ULF) to ultra-high frequency (UHF) carrier frequencies and modulation adapted by programming of a software defined radio to making selective and agile radio contacts via through-the-earth, conductor/lifeline, coal seam, tunnel, and ionosphere/earth-surface waveguides for transmission of electromagnetic waves. These waveguides comprise layered earth coal and mineral deposits, and manmade mining complex infrastructures which serendipitously form efficient waveguides. Ultra-Low Frequency F1/F1 repeaters are placed underground in the mine, and providing for extended range of communication of the cap-lamp transceiver with radios and tracking devices above ground of the mine.

Classifications:
International (IPC 8-9): G08B1/08 H04M1/02 (Advanced/Invention); G08B1/00 (Core/Invention)
CPC: H04M1/026 H04B5/0062 H04B5/0068 H04B5/0081 G08B21/02 G08B21/0275 G08B21/0291 H01Q1/2208 H01Q1/2291 H01Q1/44 H01Q21/30 H01Q1/04
European: H01Q1/04
US: 340/539.13 340/539.130P 455/550.1



Family:

Publication number	Publication date	Application number	Application date
US2009140852 AA	20090604	US20080275205	20081120
US2013157713 AA	20130620	US20120371470	20120212
US8115622 BB	20120214	US20080275205	20081120
US8542114 BB	20130924	US20120371470	20120212

Priority:
US20070991208P 20071129 US20080275205 20081120 US20120371470 20120212

Probable Assignee: STOLAR INC

Assignee(s): (std): BAUSOV IGOR ; STOLAR INC ; STOLARCZYK GERALD L ; STOLARCZYK LARRY G

Inventor(s): (std): BAUSOV IGOR ; STOLARCZYK GERALD L ; STOLARCZYK LARRY G

Agent(s): RICHARD B MAIN ESQ PATENTS PENDING; RICHARD B; MAIN LAW FIRM