

Search strategy

Query

(IDENTIFIER AND DETONATOR AND LENGTH AND PARAMETER AND VOLTAGE AND OSCILLATOR)/TI/AB/TX AND
(F42D-001)/IPC

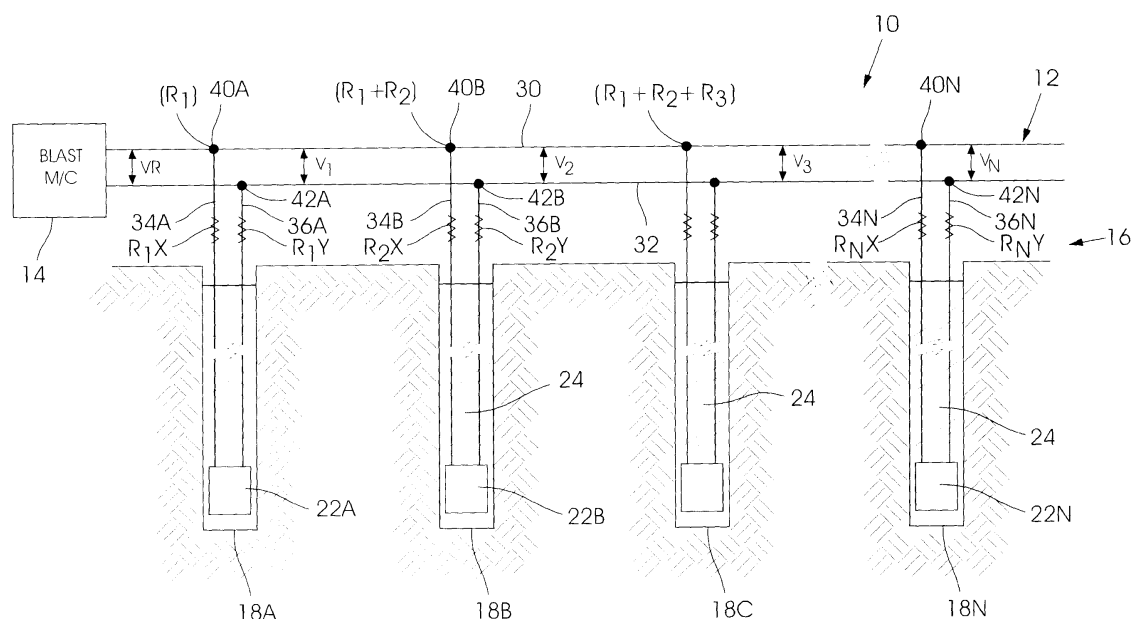
6 Documents

Publication numbers	Title	Current assignees
EP3494361 A2	Detonator identifier assignment	DETNET SOUTH AFRICA
EP1238242 A1	Flexible detonator system	DETNET SOUTH AFRICA
EP3123104 A1	Explosive primer unit and method for blasting	ORICA
EP1125094 A1	Detonation system for detonators which can be tripped by radio, and a method for tripping these detonators	DYNAMIT NOBEL
US4208966 A	Methods and apparatus for selectively operating multi-charge well bore guns	SCHLUMBERGER PROSPECTION
EP---3412 A2	Electric delay device	ORICA

Family 1/6 - FAMPAT - ©Questel

Title

(EP3494361)

Detonator identifier assignment**Images****Publication numbers with kind code & date**

CO2019009999	A2	2020-02-07	CO2019009999
EP3517882	A3	2019-12-04	EP3517882
ZA201900643	B	2019-09-25	ZA201900643
AU2017307636	B2	2019-08-22	AU2017307636
EP3517882	A2	2019-07-31	EP3517882
MX2019001305	A	2019-06-24	MX2019001305
MX2019001306	A	2019-06-24	MX2019001306
US20190186885	A1	2019-06-20	US20190186885
EP3494361	A2	2019-06-12	EP3494361
BR112019002135	A2	2019-05-14	BR112019002135
BR112019002145	A2	2019-05-14	BR112019002145
CO2019001972	A2	2019-04-30	CO2019001972
CL2019000239	A1	2019-04-22	CL2019000239
CL2019000240	A1	2019-04-22	CL2019000240
BR112019002145	A1	2019-03-19	BR112019002145
AU2019201020	A1	2019-03-07	AU2019201020
AU2017307636	A1	2019-02-28	AU2017307636
BR112019002135	A1	2019-02-12	BR112019002135
WO2018/027247	A3	2018-04-26	WO201827247
CA3032722	A1	2018-02-08	CA3032722
WO2018/027247	A2	2018-02-08	WO201827247

**Abstract**

(EP3494361)

A method of assigning a respective unique **identifier** to each of a plurality of detonators, connected to two elongate signal-transmitting conductors of a harness, by directly or indirectly measuring a **parameter** associated with the two conductors.

Inventors

KRUGER MICHIEL JACOBUS

Latest standardized assignees - inventors removed

DETNET SOUTH AFRICA

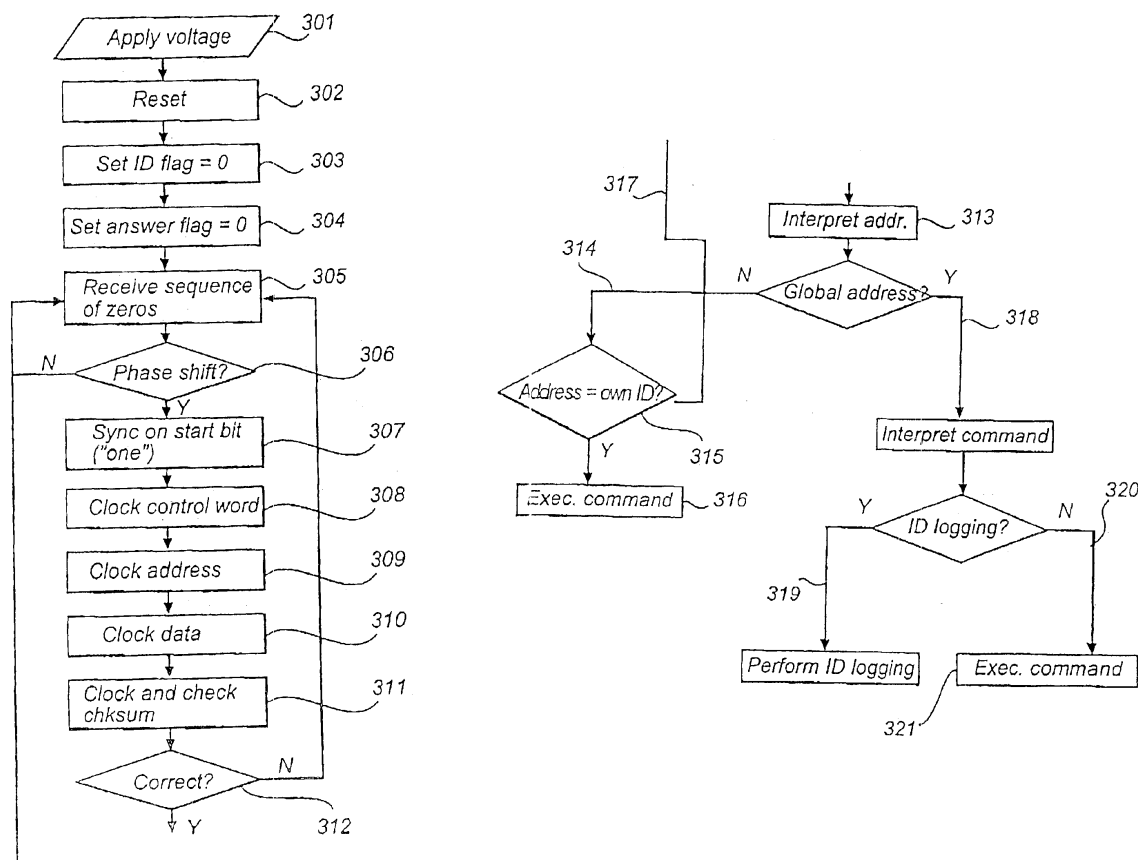
Family 2/6 - FAMPAT - ©Questel

Title

(EP1238242)

Flexible **detonator** system

Images



Publication numbers with kind code & date

IN0824/CHENP/2002	A	2009-04-03	IN2002CN00824
DE60032014	T2	2007-06-21	DE60032014
US20070095237	A1	2007-05-03	US20070095237
DE60032014	D1	2007-01-04	DE60032014
AT346275	T	2006-12-15	ATE346275
US7146912	B2	2006-12-12	US7146912
EP1238242	B1	2006-11-22	EP1238242
US20050183608	A1	2005-08-25	US20050183608
RU2257539	C2	2005-07-27	RU2257539
US6837163	B2	2005-01-04	US6837163
MXPA02005607	A	2004-09-10	MX2002PA005607
NZ519124	A	2004-03-26	NZ-519124
RU2002118104	A	2004-02-10	RU2002118104
JP2003530536	A	2003-10-14	JP2003530536
ZA200203441	B	2003-08-27	ZA200203441
AU764058	B2	2003-08-07	AU-764058
US20030101889	A1	2003-06-05	US20030101889
CZ20021932	A3	2003-01-15	CZ200201932
EP1238242	A1	2002-09-11	EP1238242
KR20020067914	A	2002-08-24	KR20020067914
NO20022672	A	2002-08-01	NO200202672
NO20022672	L	2002-08-01	NO20022672



NO20022672	D0	2002-06-06	NO200202672				
SE515382	C2	2001-07-23	SE-515382				
AU2036801	A	2001-06-18	AU200120368				
CA2393704	A1	2001-06-14	CA2393704				
WO01/42732	A1	2001-06-14	WO200142732				
SE9904461	L	2001-06-08	SE9904461				
SE9904461	D0	1999-12-07	SE9904461				

Abstract

(EP1238242)

An electronic **detonator** system which comprises a control unit, a plurality of electronic detonators and a bus which connects said detonators to the control unit. Each electronic **detonator** comprises a number of flags which may assume either of two possible values, each flag indicating a substate of the respective detonators. The flags are readable from the control unit by means of digital data packets and the control unit is adapted, by means of these flags, to check the state of the electronic **detonator** and control the operation of the electronic **detonator**. When reading said flags, the electronic detonators give responses in the form of analog response pulses on the bus. The **detonator** system also comprises a portable message receiver which on the basis of said flags obtains messages regarding the connecting status of a **detonator**.

Inventors

HALLIN SUNE

WESTBERG JAN

JOENSSON ELOF

Latest standardized assignees - inventors removed

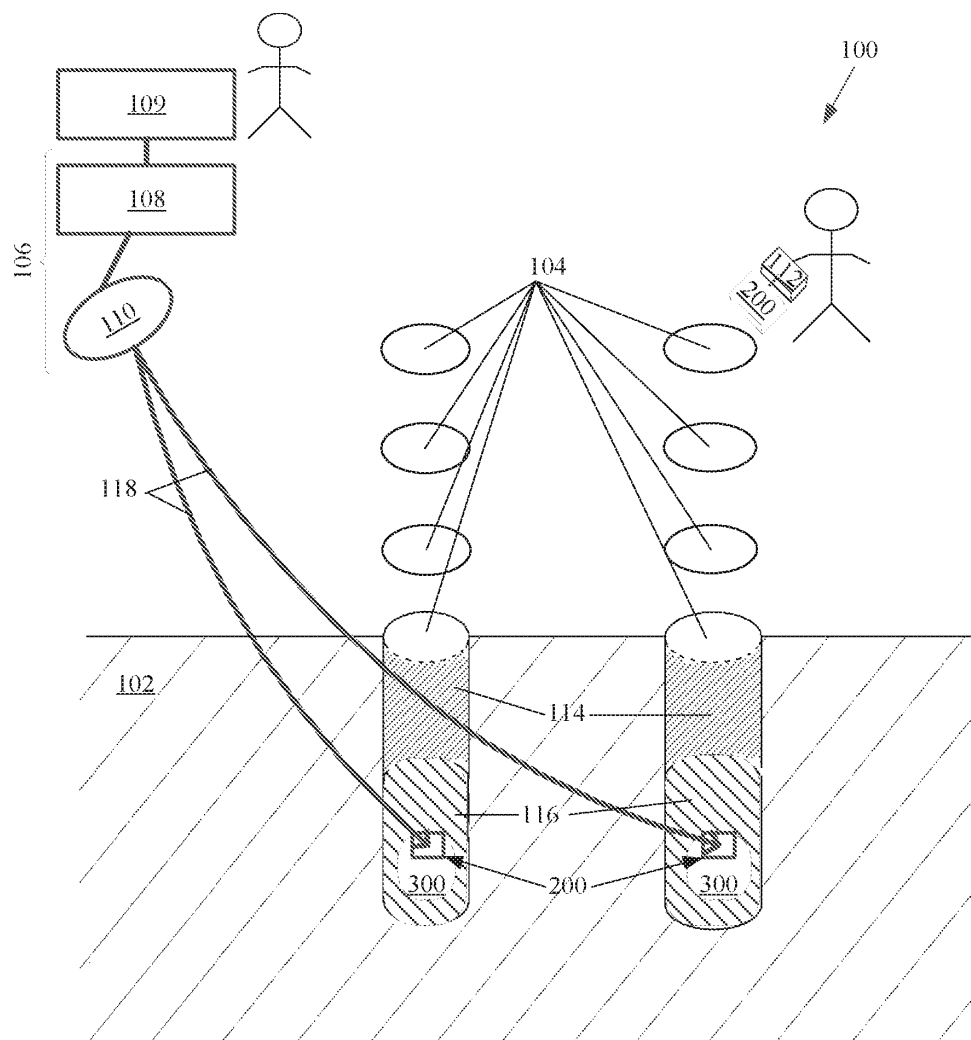
DETNET SOUTH AFRICA

Family 3/6 - FAMPAT - ©Questel

Title

(EP3123104)

Explosive primer unit and method for blasting

Images**Publication numbers with kind code & date**

ES2755426	T3	2020-04-22	ES2755426
AU2015234603	B2	2020-01-02	AU2015234603
EP3123104	B1	2019-08-21	EP3123104
RU2697980	C2	2019-08-21	RU2697980
RU2016141955	A3	2018-11-23	RU2016141955
US10113843	B2	2018-10-30	US10113843
BR112016022222	A2	2018-06-26	BR112016022222
BR112016022222	A1	2018-06-12	BR112016022222
RU2016141955	A	2018-04-28	RU2016141955
EP3123104	A4	2017-11-01	EP3123104
JP2017512968	A	2017-05-25	JP2017512968
US20170074625	A1	2017-03-16	US20170074625
CL2016002431	A1	2017-03-10	CL201602431



EP3123104	A1	2017-02-01	EP3123104				
IN201617032752	A	2017-01-20	IN201617032752				
KR20160148543	A	2016-12-26	KR20160148543				
SG11201607978P	A	2016-10-28	SG11201607978P				
AU2015234603	A1	2016-10-13	AU2015234603				
CA2943777	A1	2015-10-01	CA2943777				
WO2015/143502	A1	2015-10-01	WO2015143502				

Abstract

(EP3123104)

An initiator apparatus (IA) for blasting, the apparatus including: a magnetic receiver for receiving a magnetic communication signal through the ground by detection of a magnetic field; a controller, in electrical communication with the magnetic receiver, for processing the magnetic communication signal to determine a command for blasting; and a light source in electrical communication with the controller for generating a light beam to initiate a light-sensitive explosive (LSE) in accordance with the command.

Inventors

APPLEBY RODNEY

JOHNSON DAVID

GOODRIDGE RICHARD

WICKS BYRON

Latest standardized assignees - inventors removed

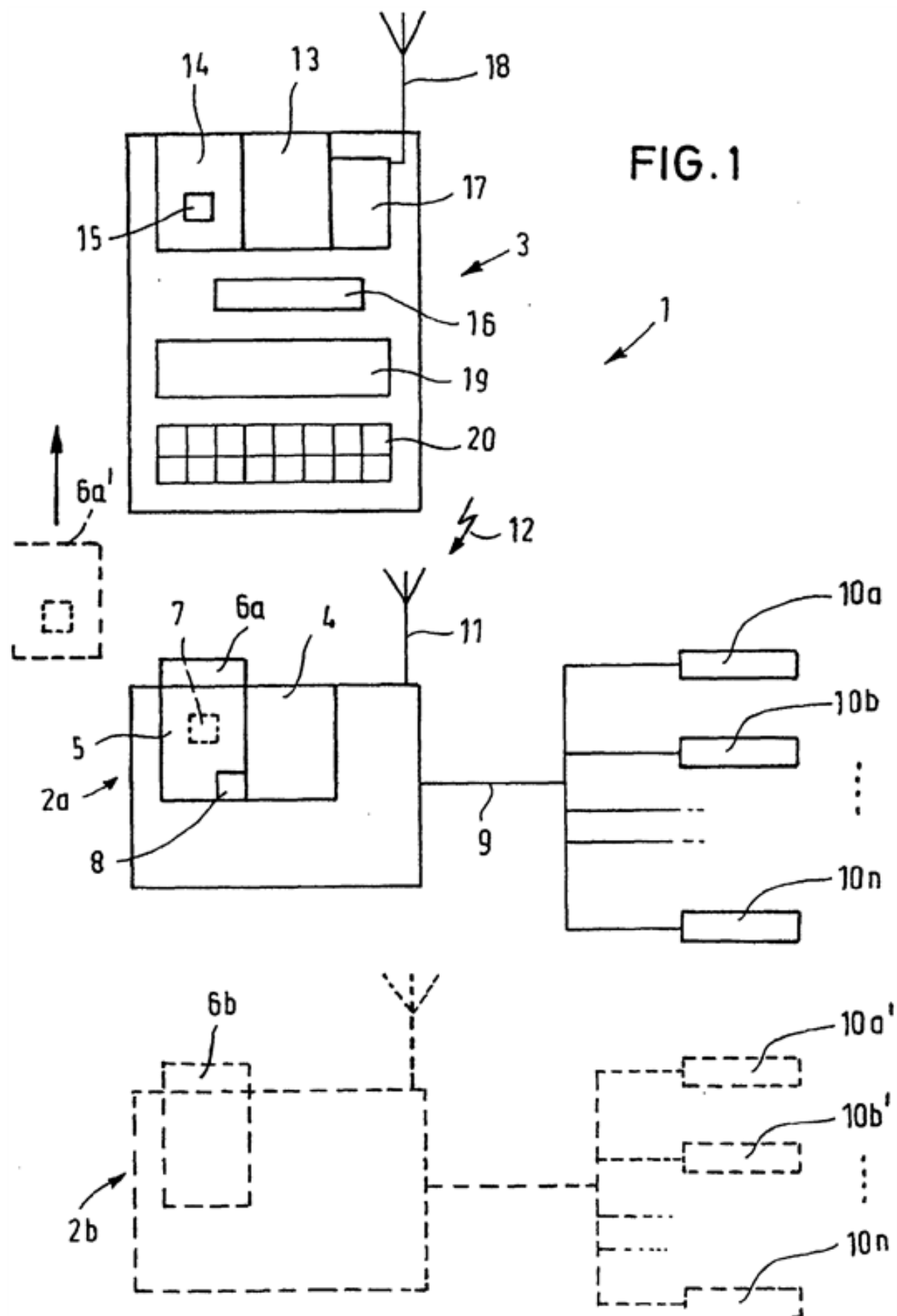
ORICA

Family 4/6 - FAMPAT - ©Questel

Title

(EP1125094)

Detonation system for detonators which can be tripped by radio, and a method for tripping these detonators

Images

DE59901673	D1	2002-07-11	DE59901673				
AT218698	T	2002-06-15	ATE218698				
EP1125094	B1	2002-06-05	EP1125094				
EP1125094	A1	2001-08-22	EP1125094				
AU1376900	A	2000-05-22	AU200013769				
WO00/26607	A1	2000-05-11	WO200026607				
DE19945790	A1	2000-05-04	DE19945790				

Abstract

(EP1125094)

The invention relates to a detonation system for detonators, which can be tripped by radio, comprised of at least one tripping device to which at least one electric or electronic **detonator** is connected. The inventive system also comprises a detonation device which can be arranged at a spatial distance from the tripping device, whereby at least the detonation device can communicate with the tripping device via radio signals. The inventive system is characterized in that at least one of the tripping units (2a, 2b) contains a removable data carrier (6a, 6b) which can be inserted into the detonation unit (3). In addition, the detonation unit (3) comprises a reading device (15) for the data of the inserted data carrier (6a, 6b). The tripping device (2a, 2b) and the data support (6a, 6b) allocated thereto contain identical identification characteristics and information necessary for tripping the connected **detonator** (10a to 10n, 10a' to 10n'). The tripping device (2a, 2b) is activated by removing the data carrier (6a, 6b) and can be placed in a receiving state or, in the case of possible bi-directional communication, can be placed in a transmitting and receiving state. The detonation device (3) is likewise placed in a transmitting standby mode or in a transmitting and receiving standby mode after inputting the data.

Inventors

SCHAEFER HEINZ

STEINER ULRICH

ZEMLA ANDREAS

Latest standardized assignees - inventors removed

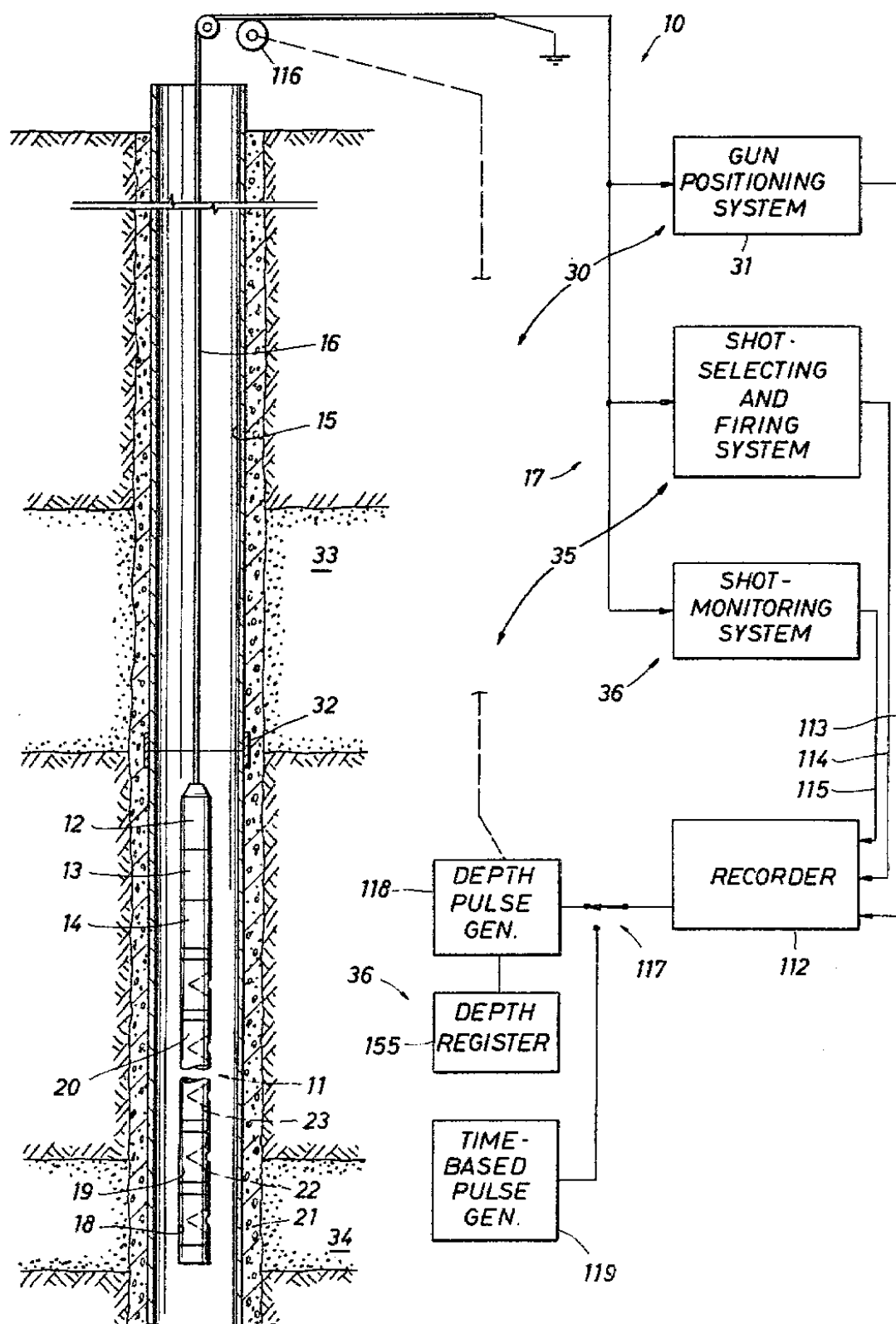
DYNAMIT NOBEL

Family 5/6 - FAMPAT - ©Questel

Title

(US4208966)

Methods and apparatus for selectively operating multi-charge well bore guns

Images**Publication numbers with kind code & date**

FR2417627	B1	1986-02-21	FR2417627
MY8500173	A	1985-12-31	MY8500173
MY8500185	A	1985-12-31	MY8500185



GB2083626	B	1983-01-19	GB2083626				
GB2015273	B	1982-09-08	GB2015273				
GB2083626	A	1982-03-24	GB2083626				
CA1100033	A	1981-04-28	CA1100033				
US4208966	A	1980-06-24	US4208966				
FR2417627	A1	1979-09-14	FR2417627				
GB2015273	A	1979-09-05	GB2015273				

Abstract

(US4208966)

In the representative embodiments of the new and improved methods and apparatus disclosed herein for controlling multicharge perforating guns or core-sampling guns, the gun-control system of the present invention includes a selectively-operable multi-contact switch assembly operative from the surface to sequentially connect a group of electrically-detonatable charges into a firing circuit for consecutively firing the charges on the gun. An array of serially-connected Zener diodes cooperatively associated with the switch assembly provides indications at the surface showing which of the several charges is then connected into the gun-firing circuit. The new and improved gun-control system also includes a shot-monitoring system which provides additional surface indications from which it can be determined whether the charges on the gun are being successfully fired and, at least approximately, that they are being consecutively fired.

Inventors

HART HERBERT J

Latest standardized assignees - inventors removed

SCHLUMBERGER PROSPECTION

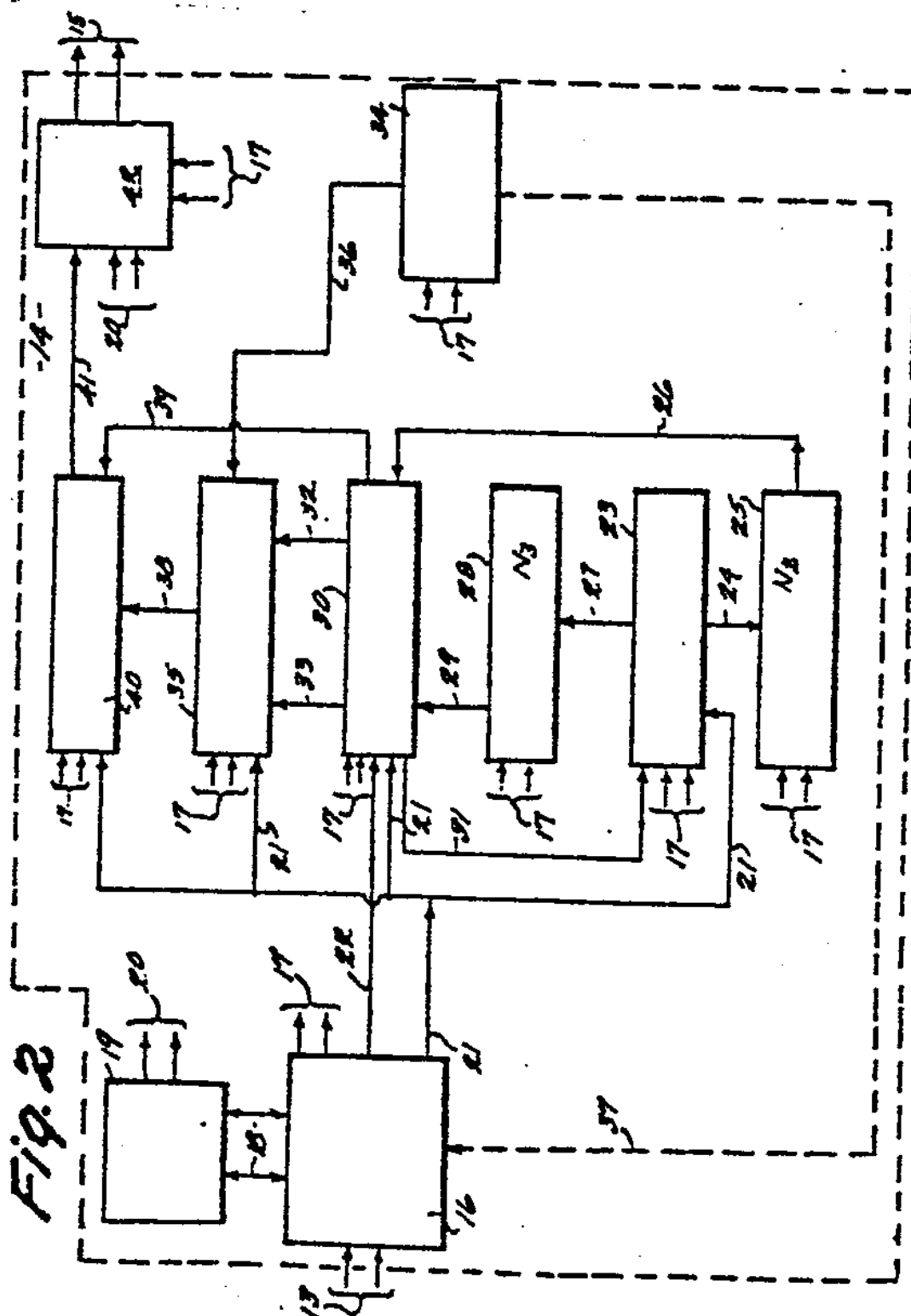
Family 6/6 - FAMPAT - ©Questel

Title

(EP---3412)

Electric delay device

Images



Publication numbers with kind code & date

JP1676534	C	1992-06-26	JP1676534
SE9003267	L	1992-04-13	SE9003267
JPH0324094	B2	1991-04-02	JPH0324094
SE9003267	D0	1990-10-12	SE9003267



SE9003267	D0	1990-10-12	SE9003267				
DE2945122	C2	1989-10-05	DE2945122				
USRE33004	E	1989-08-01	USRE33004				
USRE32888	E	1989-03-14	USRE32888				
NO158117	C	1988-07-13	NO-158117				
NO158117	B	1988-04-05	NO-158117				
AT382017	B	1986-12-29	AT-382017				
SE445161	B	1986-06-02	SE-445161				
ATA76679	A	1986-05-15	AT7900766				
FI69524	C	1986-02-10	FI--69524				
FI69524	B	1985-10-31	FI--69524				
US4419933	A	1983-12-13	US4419933				
US4409897	A	1983-10-18	US4409897				
FR2438387	B1	1983-10-14	FR2438387				
PH16261	A	1983-08-19	PH--16261				
IN150970	B	1983-02-05	IN-150970				
NZ189495	A	1982-11-23	NZ-189495				
CA1125361	A	1982-06-08	CA1125361				
GB2015791	B	1982-06-03	GB2015791				
US4324182	A	1982-04-13	US4324182				
AU520215	B2	1982-01-21	AU-520215				
ZW2579	A1	1980-10-22	ZW7900025				
ZM1879	A1	1980-09-22	ZM7900018				
ES479235	A1	1980-08-16	ES-479235				
ES477321	A1	1980-06-16	ES-477321				
DE2945122	A1	1980-05-22	DE2945122				
FR2438387	A1	1980-04-30	FR2438387				
ZA7900355	B	1980-04-30	ZA7900355				
SE8000946	L	1980-02-06	SE8000946				
GB2015791	A	1979-09-12	GB2015791				
EP0003412	A3	1979-09-05	EP---3412				
JPS54111744	A	1979-09-01	JP54111744				
BR7900607	A	1979-08-28	BR7900607				
AU4378379	A	1979-08-09	AU7943783				
EP0003412	A2	1979-08-08	EP---3412				
FI790332	A	1979-08-02	FI7900332				
NO790269	L	1979-08-02	NO-790269				

Abstract

(EP0003412)

Separate electrical timing and load activation devices are provided for each of plural electrical loads and each device is in use connected to receive reference timing signals from a remote central unit. Each of the separate timing and load activation devices measures a reference time interval accurately defined by the reference timing signals and subsequently activates its associated electrical load after a respectively corresponding predetermined time delay which is determined as a function of the locally measured reference time interval. The time interval may advantageously be measured by counting locally generated clock pulses, for example, in an up-down counter which after counting the pulses between two reference timing signals reverses direction and activates the load when the count reaches the initial value.

The devices are especially useful for firing electric fuseheads for blasting detonators in a predetermined delay sequence.

Inventors

KIRBY, IAN JOHN

MITCHELL, MICHAEL IAN

STRATTON, ANDREW

Latest standardized assignees - inventors removed

ORICA