Title (en)
SYSTEM FOR PROGRAMMING AND LIGHTING ELECTRONIC DETONATORS AND ASSOCIATED METHOD

Title (de)
SYSTEM ZUR PROGRAMMIERUNG UND ZÜNDUNG VON ELEKTRONISCHEN SPRENGZÜNDERN SOWIE ZUGEHÖRIGES VERFAHREN

Title (fr)
SYSTEME DE PROGRAMMATION ET DE MISE A FEU DE DETONATEURS ELECTRONIQUES, PROCEDE ASSOCIE

Abstract (en)
[origin: WO2011095730A1] The present invention relates to a system for programming and lighting electronic detonators (1) each having an identifier (IDdet) associated therewith, as well as to a corresponding method. The system includes: a programming unit (20) arranged to determine the identifiers of the detonators (1) and to associate said detonators individually, in memory, with a lighting time delay (Tdet) in order to form a blasting pattern (PT); a blasting unit (10) arranged to recover the blasting pattern (PT) from the memory (280) of the programming unit (20), and to control a blasting sequence of the detonators according to the recovered blasting pattern; and said programming unit (20) includes: a passive RFID tag (28) provided with a chip (280) acting as a memory for storing the blasting pattern (PT), and a radiofrequency reader (27) arranged such as to read/write passive tags.

IPC 8 full level
F42D 1/05 (2006.01); F42D 1/055 (2006.01)

CPC (source: EP US)
F42D 1/05 (2013.01 - EP US); F42D 1/055 (2013.01 - EP US)

Citation (search report)
See references of WO 2011095730A1

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

DOCDB simple family (publication)
FR 2955933 A1 20110805; FR 2955933 B1 20120309; AU 2011212272 A1 20120906; AU 2011212272 B2 20151112; BR 112012019297 A2 20200818; BR 112012019297 A8 20210217; BR 112012019297 B1 20210420; CA 2787613 A1 20110811; CA 2787613 C 20170117; CL 2012002121 A1 20130322; CO 6561842 A2 20121115; EA 020679 B1 20141230; EA 201290739 A1 20130228; EP 2531809 A1 20121212; EP 2531809 B1 20140108; ES 2454865 T3 20140411; MX 2012008920 A 20121130; PE 20130522 A1 20130425; PL 2531809 T3 20140829; PT 2531809 E 20140414; UA 104510 C2 20140210; US 2012299708 A1 20121129; US 8994515 B2 20150331; WO 2011095730 A1 20110811; ZA 201205728 B 20130925

DOCDB simple family (application)
FR 1050717 A 20100202; AU 2011212272 A 20110128; BR 112012019297 A 20110128; CA 2787613 A 20110128; CL 2012002121 A 20120731; CO 12146296 A 20120828; EA 201290739 A 20110128; EP 11706885 A 20110128; ES 11706885 T 20110128; FR 2011050176 W 20110128; MX 2012008920 A 20110128; PE 2012001090 A 20110128; PL 11706885 T 20110128; PT 11706885 T 20110128; UA A201210289 A 20110128; US 201113575715 A 20110128; ZA 201205728 A 20120730