Title (en)

ELECTRONIC DETONATOR SYSTEM

Title (de)

ELEKTRONISCHE DETONATORVORRICHTUNG

Title (fr)

SYSTEME DETONATEUR ELECTRONIQUE

Publication

EP 1266185 A1 20021218 (EN)

Application

EP 01914283 A 20010309

Priority

- SE 0100507 W 20010309
- SE 0000802 A 20000310

Abstract (en)

[origin: WO0167031A1] A method for firing electronic detonators in an electronic detonator system, said detonators being connected to a control unit via a bus. A firing command or a test firing command is sent from the control unit to the detonators, which start countdown of a delay time stored in each detonator at a synchronising point which is delayed relative to said command. On completion of the countdown, the detonators are caused, in the case of a firing command, to detonate, and in the case of a test firing command, to give a response at the point where they should have detonated if a firing command had been involved. The delayed synchronisation allows checking and control of the detonators after said command has been received. The invention also comprises an analogous method in a system with a plurality of slave control units, to which a plurality of detonators are connected, and a main control unit, the system being controlled at the command of the main control unit.

IPC 1-7

F42D 1/055

IPC 8 full level

F42C 19/08 (2006.01); **F42D 1/055** (2006.01)

CPC (source: EP KR US)

F42D 1/05 (2013.01 - KR); **F42D 1/055** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0167031 A1 20010913; AP 2002002618 A0 20020930; AU 2001239630 B2 20040819; AU 3963001 A 20010917; CA 2402119 A1 20010913; CZ 20022983 A3 20030312; EP 1266185 A1 20021218; HU P0300137 A2 20030528; IL 151513 A0 20030410; JP 2003526074 A 20030902; KR 20020087412 A 20021122; MX PA02008595 A 20040823; NO 20024230 D0 20020905; NO 20024230 L 20021108; PL 358012 A1 20040809; RU 2255303 C2 20050627; SE 0000802 D0 20000310; SE 0000802 L 20010911; SE 515809 C2 20011015; US 2003136289 A1 20030724; YU 67502 A 20040512; ZA 200207222 B 20030909

DOCDB simple family (application)

SE 0100507 W 20010309; AP 2002002618 A 20010309; AU 2001239630 A 20010309; AU 3963001 A 20010309; CA 2402119 A 20010309; CZ 20022983 A 20010309; EP 01914283 A 20010309; HU P0300137 A 20010309; IL 15151301 A 20010309; JP 2001565957 A 20010309; KR 20027011869 A 20020910; MX PA02008595 A 20010309; NO 20024230 A 20020905; PL 35801201 A 20010309; RU 2002126998 A 20010309; SE 0000802 A 20000310; US 22081402 A 20021024; YU P67502 A 20010309; ZA 200207222 A 20020909