

Title (en)

METHOD FOR IGNITING AN ASSEMBLY OF ELECTRONIC DETONATORS

Title (de)

VERFAHREN ZUM ZÜNDEN EINER BAUGRUPPE ELEKTRONISCHER ZÜNDER

Title (fr)

PROCÉDÉ DE MISE À FEU D'UN ENSEMBLE DE DÉTONATEURS ÉLECTRONIQUES

Publication

EP 3899417 A1 20211027 (FR)

Application

EP 19845770 A 20191217

Priority

- FR 1873012 A 20181217
- FR 2019053118 W 20191217

Abstract (en)

[origin: CA3122858A1] A method for igniting an assembly of electronic detonators (1) comprises: - receipt, by a receiving device (30) associated with one or more electronic detonators (1), of an ignition command from a transmitted sequence of ignition commands (100) comprising at least two ignition commands, a synchronisation delay (t2, t4) being associated with each ignition command; - counting down, from the time of receipt of the ignition command, the synchronisation delay (t2, t4) associated with the received ignition command; - counting down an ignition delay (tdelay) associated with each electronic detonator (1) from a synchronisation time (Is) corresponding to the time at which the countdown of the synchronisation delay (t2, t4) is complete; and - igniting each electronic detonator (1) once the countdown of the ignition delay (t delay) is complete.

IPC 8 full level

F42D 1/055 (2006.01)

CPC (source: EP US)

F42D 1/055 (2013.01 - EP US)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3090087 A1 20200619; FR 3090087 B1 20220624; AU 2019400901 A1 20210812; BR 112021011697 A2 20210908; CA 3122858 A1 20200625; CL 2021001562 A1 20211231; CN 113348337 A 20210903; CN 113348337 B 20231128; CO 2021007756 A2 20210930; EA 202191716 A1 20211011; EP 3899417 A1 20211027; MX 2021007137 A 20210811; PE 20212397 A1 20211230; US 2022018644 A1 20220120; WO 2020128300 A1 20200625; ZA 202104815 B 20230125

DOCDB simple family (application)

FR 1873012 A 20181217; AU 2019400901 A 20191217; BR 112021011697 A 20191217; CA 3122858 A 20191217; CL 2021001562 A 20210615; CN 201980090250 A 20191217; CO 2021007756 A 20210615; EA 202191716 A 20191217; EP 19845770 A 20191217; FR 2019053118 W 20191217; MX 2021007137 A 20191217; PE 2021000890 A 20191217; US 201917413811 A 20191217; ZA 202104815 A 20210709