

Title (en)
DETONATION SYSTEM FOR DETONATORS WHICH CAN BE TRIPPED BY RADIO, AND A METHOD FOR TRIPPING THESE DETONATORS

Title (de)
ZÜNDEINRICHTUNG FÜR ZÜNDER, DIE MITTELS FUNK AUSLÖSBAR SIND UND VERFAHREN ZUM AUSLÖSEN DIESER ZÜNDER

Title (fr)
DISPOSITIF D'ALLUMAGE POUR AMORCES POUVANT ETRE DECLENCHEES PAR RADIO ET PROCEDE POUR DECLENCHER CES AMORCES

Publication
EP 1125094 A1 20010822 (DE)

Application
EP 99971499 A 19991027

Priority
• DE 19849653 A 19981029
• DE 19945790 A 19990924
• EP 9908122 W 19991027

Abstract (en)
[origin: WO0026607A1] 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.

IPC 1-7
F42C 15/42; **F42D 1/05**; **E21B 43/1185**

IPC 8 full level
F42C 13/04 (2006.01); **F42C 15/40** (2006.01); **F42D 1/05** (2006.01)

CPC (source: EP)
F42C 13/047 (2013.01); **F42C 15/40** (2013.01); **F42D 1/05** (2013.01)

Citation (search report)
See references of WO 0026607A1

Cited by
AU2003254393B2; US6851369B2; WO2004020934A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0026607 A1 20000511; AT E218698 T1 20020615; AU 1376900 A 20000522; EP 1125094 A1 20010822; EP 1125094 B1 20020605

DOCDB simple family (application)
EP 9908122 W 19991027; AT 99971499 T 19991027; AU 1376900 A 19991027; EP 99971499 A 19991027