

Title (en)

Method and apparatus for measuring the course of a deflagration front in a cylindrical warhead with at least two ignition devices

Title (de)

Verfahren und Vorrichtung zur Messung des Verlaufs einer Deflagrationsfront in einem zylindrischen Gefechtskopf mit wenigstens zwei Zündeinrichtungen

Title (fr)

Procédé et dispositif de mesure du déroulement d'un front de déflagration dans une tête militaire cylindrique avec au moins deux dispositifs d'allumage

Publication

EP 2645050 A2 20131002 (DE)

Application

EP 13001460 A 20130321

Priority

DE 102012006044 A 20120327

Abstract (en)

The method involves measuring actual position of a deflagration front (D) by a measuring device (MV). The deflagration front is originated from an ignition point (Z1). The measuring device is arranged parallel to a longitudinal axis (L) of a warhead. The result of the measurement is evaluated for determining an ignition time of another ignition point (Z2). An independent claim is included for an apparatus for measuring a profile of a deflagration front in a cylindrical warhead with two ignition devices and explosive charge.

Abstract (de)

Der Verlauf einer Deflagrationsfront in der Sprengladung eines Gefechtskopfes wird mittels einer Messvorrichtung ermittelt und ausgewertet.

IPC 8 full level

F42C 19/08 (2006.01); **F42B 35/00** (2006.01)

CPC (source: EP)

F42B 35/00 (2013.01); **F42C 19/0842** (2013.01)

Citation (applicant)

- US 4815385 A 19890328 - KINGERY CHARLES N [US], et al
- FR 2775770 A1 19990910 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- DE 19961204 A1 20010712 - DAIMLER CHRYSLER AG [DE]
- DE 10008914 C2 20030626 - TDW VERTEIDIGUNGSTECH WIRKSYS [DE]
- DE 102009017160 B3 20100819 - TDW VERTEIDIGUNGSTECH WIRKSYS [DE]

Cited by

CN110687162A

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)

DE 102012006044 B3 20130321; EP 2645050 A2 20131002; EP 2645050 A3 20150729; EP 2645050 B1 20180509; EP 2645050 B8 20180627; ES 2674337 T3 20180628

DOCDB simple family (application)

DE 102012006044 A 20120327; EP 13001460 A 20130321; ES 13001460 T 20130321