

Title (en)
Switchable explosive charge

Title (de)
Umschaltbare Wirkladung

Title (fr)
Charge active commutable

Publication
EP 2442066 A3 20150107 (DE)

Application
EP 11008290 A 20111014

Priority
DE 102010048570 A 20101018

Abstract (en)
[origin: EP2442066A2] The switchable explosive charge of a warhead comprises: a splinter forming a casing and having an explosive charge, in which a tubular holder having pellets (P) is arranged; a first ignition device (Z1) arranged at a front side, where the ignition device corresponds with a plate-shaped transformer, in whose area a detonation wave guide is arranged; and a further ignition device positioned in the region of a longitudinal axis (A) of the explosive charge. The ignition devices are initiated independent of one another. The diameter of the pellets is 1-10 mm. The switchable explosive charge of a warhead comprises: a splinter forming a casing and having an explosive charge, in which a tubular holder having pellets (P) is arranged; a first ignition device (Z1) arranged at a front side, where the ignition device corresponds with a plate-shaped transformer, in whose area a detonation wave guide is arranged; and a further ignition device positioned in the region of a longitudinal axis (A) of the explosive charge. The ignition devices are initiated independent of one another. The diameter of the pellets is 1-10 mm. The ratio of a distance between center points of the adjacent pellets to their diameter is greater than 1-3. The casing is dimensioned with respect to the charge diameter, curvature of the casing, splinter side length, splinter thickness and the typical parameters of the material of the casing so that the casing properties lie within the boundary curve of the casing. The boundary curve is defined for the particular material of the casing by the ratios of the splinter side length to the charge diameter and splinter side length to the splinter thickness. The pellets are: stochastically distributed with respect to their diameter and/or their mutual distances; and systematically arranged on the holder. An independent claim is included for a triggering method for a switchable explosive charge of a warhead.

IPC 8 full level
F42C 19/08 (2006.01); **F42B 12/22** (2006.01); **F42C 19/095** (2006.01)

CPC (source: EP)
F42C 19/0842 (2013.01)

Citation (search report)
• [XDYI] DE 102006048299 B3 20080925 - TDW VERTEIDIGUNGSTECH WIRKSYS [DE]
• [Y] EP 1847797 A2 20071024 - TDW VERTEIDIGUNGSTECH WIRKSYS [DE]
• [A] DE 102009017160 B3 20100819 - TDW VERTEIDIGUNGSTECH WIRKSYS [DE]

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)
EP 2442066 A2 20120418; EP 2442066 A3 20150107; EP 2442066 B1 20180321; EP 2442066 B8 20180516; DE 102010048570 A1 20120419;
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