

Title (en)

CARTRIDGED AMMUNITION, ESPECIALLY OF MIDDLE CALIBER

Title (de)

PATRONENMUNITION, INSBESONDERE MIT MITTLEREM KALIBER

Title (fr)

MUNITION ENCARTOUCHEE, NOTAMMENT DE CALIBRE MOYEN

Publication

EP 1735584 B1 20101229 (DE)

Application

EP 05746318 A 20050408

Priority

- DE 2005000628 W 20050408
- DE 102004017465 A 20040408
- DE 102004020838 A 20040428

Abstract (en)

[origin: WO2005098348A1] Disclosed is a piece of cartridge ammunition, particularly blank ammunition, comprising a cartridge shell (3) and a projectile (2) that is inserted therein. A propellant chamber that accommodates a propellant charge (5) is provided in the cartridge shell. The propellant charge (5) is ignited by a pyrotechnic ignition device (13) and develops propellants which act upon the bottom (8) of the projectile and propel the same out of the cartridge shell. In order to prevent the pyrotechnic ignition device and thus also the propellant charge (5) from igniting and the cartridge shell and the projectile from being torn apart and being projected in case of high ambient temperatures, particularly during a fire, relief ducts (14) which are filled with a meltable material, especially a meltable metal (15), are provided between the propellant chamber and the exterior of the cartridge shell (3). The meltable material has a lower melting point than the ignition temperature of the ignition device (13) and the propellant charge (5). If the ambient temperature of the cartridge shell rises above the melting temperature of the meltable material, said meltable material melts and unblocks the relief ducts (14) such that the propellant charge burns without pressure building up when the propellant charge is ignited later on while the cartridge shell and the projectile remain interconnected.

IPC 8 full level

F42B 39/20 (2006.01)

CPC (source: EP KR)

F42B 8/18 (2013.01 - EP); **F42B 39/14** (2013.01 - KR); **F42B 39/18** (2013.01 - KR); **F42B 39/20** (2013.01 - EP KR)

Cited by

DE102013000043A1; WO2014106566A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005098348 A1 20051020; **WO 2005098348 A8 20070607**; AU 2005230669 A1 20051020; AU 2005230669 B2 20101021; CA 2563392 A1 20051020; CA 2563392 C 20120619; EP 1735584 A1 20061227; EP 1735584 B1 20101229; ES 2357845 T3 20110503; KR 101253784 B1 20130412; KR 20070057706 A 20070607; NO 20064640 L 20061213; NO 333593 B1 20130715; PL 1735584 T3 20110531

DOCDB simple family (application)

DE 2005000628 W 20050408; AU 2005230669 A 20050408; CA 2563392 A 20050408; EP 05746318 A 20050408; ES 05746318 T 20050408; KR 20067023188 A 20050408; NO 20064640 A 20061012; PL 05746318 T 20050408