

Title (en)

Metal cartridge case coated with an inner liner for preventing erosion

Title (de)

Treibladungshülse aus Metall, die mit einer inneren Erosionsschutzschicht versehen ist

Title (fr)

Douille métallique de munition pour armes à feu intérieurement revêtue d'un manchon anti-érosif

Publication

EP 1059505 A1 20001213 (FR)

Application

EP 00401523 A 20000530

Priority

FR 9907219 A 19990608

Abstract (en)

The metallic cartridge case for firearms has an interior coating of anti-erosion sleeve, made of combustible matrix of fibrous nitrocellulose and cellulose and organic resin, filled with titanium dioxide. The metallic cartridge case is at least partially internally coated with an anti-erosion coating comprising powdered titanium oxide. The coating is in form of solid rigid sleeve comprising combustible matrix filled with titanium oxide. The content of the latter is 10-30 wt.% per total weight of sleeve and combustible matrix comprises fibrous nitrocellulose, fibrous cellulose and organic resin. Independent claims are also included for the following: (i) a munition for firearms comprising metallic cartridge case provided with percussion cap and projectile, and containing propulsive combustible charge, where the cartridge case is as above; and (ii) an anti-erosion device aimed to provide interior coating of metallic cartridge case for firearms and having form of rigid sleeve consisting of combustible matrix filled with titanium oxide, as above.

IPC 1-7

F42B 5/24

IPC 8 full level

F42B 5/24 (2006.01)

CPC (source: EP)

F42B 5/24 (2013.01)

Citation (applicant)

- FR 1526983 A 19680531 - PRB NV
- US 3148620 A 19640915 - JACOBSON DAVID E, et al

Citation (search report)

- [XY] NL 7213383 A 19730226
- [DY] FR 1526983 A 19680531 - PRB NV
- [Y] US 3209689 A 19651005 - ELMORE MCLENNAN DONALD
- [DY] US 3148620 A 19640915 - JACOBSON DAVID E, et al
- [A] US 3403625 A 19681001 - ESRIEL JACOBSON DAVID, et al
- [A] DE 3544907 A1 19870625 - DIEHL GMBH & CO [DE]

Designated contracting state (EPC)

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