

Title (en)
CARTRIDGE AMMUNITION FOR BARREL WEAPONS

Publication
EP 0158121 A3 19881130 (DE)

Application
EP 85102547 A 19850306

Priority
DE 3409017 A 19840313

Abstract (en)
[origin: US4671179A] The target-effective mass of cartridged ammunition is increased while maintaining a predetermined cartridge length. A projectile body has a projectile tail portion extending rearwardly on which a fin or wing-stabilization arrangement is mounted. This tail portion extends rearwardly towards the immediate vicinity of the propellant charge casing bottom. A projection extends rearwardly past the wing or fin-stabilization guide arrangement. This projection includes a massive portion which separates at firing from the propellant charge casing bottom. The rear portion of the projectile body is surrounded by a sheathing of combustible material forming the ignition element which sheathing extends from the cartridge case bottom up to at least the middle of the propellant charge casing and has a longitudinal extent l2. The massive projection permits, during the combustion of the propellant charge up to separation the build up of a high gas pressure, whereby in particular a loose powder propellant charge is ignited by the ignition element for a short period of time in a uniform and reproducible manner. Thus, without increasing the length of the cartridge an increase of the target-effective mass and an increase of the projectile length is achieved with an accompanying penetration capacity increase by improving the relationship of the projectile length l1 to the projectile diameter d1.

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IPC 8 full level
F42B 5/073 (2006.01); **F42C 19/08** (2006.01)

CPC (source: EP US)
F42B 5/073 (2013.01 - EP US); **F42B 5/181** (2013.01 - EP US); **F42C 19/0826** (2013.01 - EP US)

Citation (search report)
DE 3033923 A1 19820415 - RHEINMETALL GMBH [DE]

Cited by
FR2728674A1; ITRM20130707A1; EP0499906A3; DE4445989A1; FR2728675A1; EP0463904A1; FR2663730A1; US5247888A; US5277118A; WO8912211A3

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