

Title (en)

A gun with combined operation by chemical propellant and plasma.

Title (de)

Mit einer Kombination von Plasmaantrieb und chemischer Treibladung arbeitendes Geschütz.

Title (fr)

Canon actionné par la combinaison d'une charge propulsive chimique et d'un plasma.

Publication

EP 0382000 B1 19940420

Application

EP 90101414 A 19900124

Priority

IL 8923189 A 19890209

Abstract (en)

[origin: EP0382000A2] A hybrid gun for launching a projectile (19) by a combined propulsion effect of a chemical propellant and electrothermal energy. The gun comprises a breech-associated electrothermal propulsion energy injector (14) having a plasma beam generator (15) and a tubular chamber (17) holding a light working fluid (18) that during the travel of the projectile in the barrel (12) produces at the rear of the projectile (19) a light gaseous buffer zone. Optionally the gun may have in addition one or more electrothermal propulsion energy injectors mounted on the barrel. There is also provided ammunition for use with a hybrid gun having a chemical propellant holding cartridge designed for ignition by working fluid injected by the breech associated electrothermal propulsion energy injector.

IPC 1-7

F41B 6/00

IPC 8 full level

F41A 1/02 (2006.01); **F41B 6/00** (2006.01)

CPC (source: EP)

F41A 1/02 (2013.01); **F41B 6/00** (2013.01)

Cited by

US5355764A; US5574240A; US5225624A; FR2670279A1; EP0905470A1; FR2768810A1; US7059249B2; US6237494B1

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