

Title (en)

A GUN WITH COMBINED OPERATION BY CHEMICAL PROPELLANT AND PLASMA

Publication

**EP 0382000 A3 19910403 (EN)**

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)

Citation (search report)

- [APD] EP 0331150 A1 19890906 - ISRAEL ATOMIC ENERGY COMM [IL]
- [AD] US 4590842 A 19860527 - GOLDSTEIN YESHAYAHU S A [US], et al

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

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