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(54) **A gun with combined operation by chemical propellant and plasma.**

(57) 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.

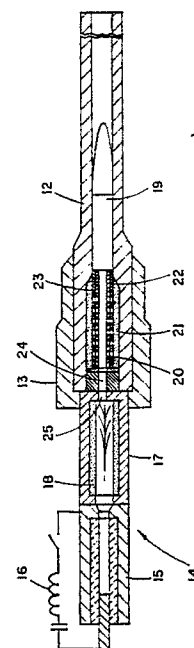


Fig. 3



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EUROPEAN SEARCH REPORT

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EP 90 10 1414

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
P,D,A	EP-A-0 331 150 (STATE OF ISRAEL) * column 3, lines 30 - 47; figures 1, 2 ** column 4, line 38 - column 5, line 4 @ column 5, line 50 - column 6, line 30 @ column 8, lines 9 - 47 ** column 8, line 55 - column 9, line 13 * - - -	1-9	F 41 B 6/00
D,A	US-A-4 590 842 (GOLDSTEIN) * column 2, lines 11 - 61; figure 1 ** column 4, line 31 - column 5, line 17 ** column 5, line 46 - column 7, line 8 * - - - - -	1,3-5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F 41 B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 30 January 91	Examiner VAN DER PLAS J.M.
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention</div><div>E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document</div></div>			