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United States Patent [19]

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Lee

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[54] **LAUNCHING PROJECTILES WITH HYDROGEN GAS GENERATED FROM ALUMINUM FUEL POWDER/WATER REACTIONS**

4,974,487 12/1990 Goldstein et al. 89/7

[75] Inventor: **Woodrow W. Lee, Potomac, Md.**
[73] Assignee: **The United States of America as represented by the Secretary of the Navy, Washington, D.C.**

OTHER PUBLICATIONS

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Primary Examiner—David H. Brown
Attorney, Agent, or Firm—Kenneth E. Walden; Roger D. Johnson

[21] Appl. No.: **564,894**

[57] ABSTRACT

[22] Filed: **Aug. 6, 1990**

A method of propelling a projectile from a device by applying a high power pulse of electrical current to a thin metal conductor wire causing the wire to explode and disperse hot spots of molten metal throughout an aluminum fuel powder/water mixture which reacts to generate hydrogen gas at high pressure in a chamber. The hydrogen gas is used to push the projectile from the device.

[51] Int. Cl.³ **F41F 1/00**

[52] U.S. Cl. **89/7; 89/8**

[58] Field of Search **89/7, 8**

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23 Claims, 2 Drawing Sheets

