



US004001768B2

7715

# United States Statutory Invention Registration [19]

[11] Reg. Number: **H1768**  
[45] Published: **Jan. 5, 1999**

7715

**Mueller et al.**

[54] OXIDIZING AGENT	5,232,526	8/1993	Willer et al.	149/45
	5,574,240	11/1996	Cartwright	149/46
[75] Inventors: Kurt F. Mueller, Ft. Washington; Kerry L. Wagaman, Bryantown, both of Md.	5,648,052	7/1997	Schaefer et al.	422/305
	5,684,269	11/1997	Barnes et al.	149/45

[73] Assignee: The United States of America as represented by the Secretary of the Navy, Washington, D.C.

Primary Examiner—Edward A. Miller  
Attorney, Agent, or Firm—John L. Forrest; Roger D. Johnson

[21] Appl. No.: 854,034

[22] Filed: May 9, 1997

[51] Int. Cl.<sup>6</sup> ..... C06B 31/00; C06B 31/28

[52] U.S. Cl. .... 149/46; 149/45; 149/36

[58] Field of Search ..... 149/45, 46

### [57] ABSTRACT

Liquid oxidizer comprising an aqueous solution of hydroxyl ammonium nitrate and a nitrate salt that is ammonium nitrate or hydrazine mononitrate.

20 Claims, No Drawings

### [56] References Cited

#### U.S. PATENT DOCUMENTS

4,402,775	9/1983	Wood	149/46
4,527,389	7/1985	Biddle et al.	149/45
4,956,168	9/1990	Wagaman	423/386
5,014,623	5/1991	Walker et al.	149/46
5,223,057	6/1993	Mueller et al.	

A statutory invention registration is not a patent. It has the defensive attributes of a patent but does not have the enforceable attributes of a patent. No article or advertisement or the like may use the term patent, or any term suggestive of a patent, when referring to a statutory invention registration. For more specific information on the rights associated with a statutory invention registration see 35 U.S.C. 157.