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United States Patent [19]

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[54] DERIVATIVES OF ENERGETIC ORTHOFORMATES

[75] Inventors:

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

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[51] Int. Cl.[3] C07C 43/32

[52] U.S. Cl. 568/590; 568/22; 568/595; 149/88; 548/319; 548/320; 260/349; 260/465.6

[58] Field of Search 568/590, 595

[56] References Cited

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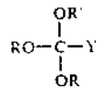
[57] ABSTRACT

Energetic orthoformates of the formula



wherein R and R' vary independently and R is

$-CH_2C(NO_2)_2CH_3$,

$-CH_2C(NO_2)_3$,

$-CH_2CF(NO_2)_2$,

$-CH_2CF_2(NO_2)$, or

$-CH_2CF_3$,

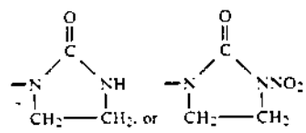
R' is

$-CH_2CF(NO_2)_2$,

$-CH_2F_2(NO_2)$, or

$-CH_2CF_3$,

and Y is $-F$, $-N_3$, $-C{\equiv}N$,



and methods of preparation.

6 Claims, No Drawings