

United States Patent [19]
Sitzmann

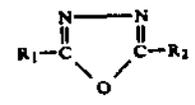
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- [54] 1,3,4-OXADIAZOLES CONTAINING THE PENTAFLUOROTHIO (SF₅) GROUP
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- [73] Assignee: The United States of America as represented by the Secretary of the Navy, Washington, D.C.
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[57] ABSTRACT
 1,3,4-Oxadiazoles of the formula



Related U.S. Application Data

- [62] Division of Ser. No. 59,768, May 10, 1993, Pat. No. 5,274,103.
- [51] Int. Cl.³ C07C 243/14
- [52] U.S. Cl. 564/151
- [58] Field of Search 564/151

are prepared by cyclization (dehydration) of the corresponding diacylhydrazines of the formula R₁C(O)NHNHC(O)R₂ with phosphorous pentachloride or phosphorous oxychloride wherein R₁ is —CF₂CF₂CF₂SF₅, —CF₂CF₂SF₅, or —CH₂SF₅ and R₂ is —CH₂CH₂C(NO₂)₃, —CH₂CH₂C(NO₂)₂F, —CF₂CF₂CF₃, —CF₂CF₃, —CF₃, or —CH₂SF₅.

- [56] References Cited
 U.S. PATENT DOCUMENTS
 4,633,014 12/1986 Bremanis et al. 564/151
 4,996,286 2/1991 Hirai et al. 564/151

8 Claims, No Drawings