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Sitzmann

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74,883

- [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.
- [21] Appl. No.: 59,768
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- [52] U.S. Cl. 548/143
- [58] Field of Search 548/143
- [56] **References Cited**

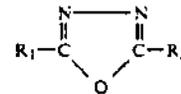
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[57] **ABSTRACT**
1,3,4-Oxadiazoles of the formula



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. The compounds are useful as plasticizers.

8 Claims, No Drawings