

- [54] **INTRAMOLECULARLY CROSSLINKED HEMOGLOBIN**
- [75] **Inventor:** Patrick J. Scannon, Davis, Calif.
- [73] **Assignee:** The United States of America as represented by the Secretary of the Army, Washington, D.C.
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- [58] **Field of Search** 260/112.5 R, 112 B; 424/101

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Primary Examiner—Howard E. Schain
Attorney, Agent, or Firm—William G. Gapcynski;
 Arthur I. Spechler; John M. Petruncio

[57] **ABSTRACT**

This invention relates to molecular modification of hemoglobin by utilization of a class of α, ω -dialdehydes having a chain length of 5 to 7 members and substituted with at least one negatively charged group such as a phosphate moiety. A subject α, ω -dialdehyde can be synthesized by sodium periodate oxidation of a phosphorylated ribose such as adenosine-5'-triphosphate or 5-phosphoribosyl-1-pyrophosphate. The compounds of this invention can be advantageously used for intramolecularly crosslinking hemoglobin for resuscitative purposes.

7 Claims, No Drawings