United States Patent [19]

Benedict et al.

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[54] **CERTAIN CYCLOALKANE-1,1-DIPHOSPHONIC ACIDS AND DERIVATIVES THEREOF HAVING THE ABILITY TO TREAT DISEASES ASSOCIATED WITH ABNORMAL CALCIUM AND PHOSPHATE METABOLISM**

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Related U.S. Application Data

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[52] **U.S. Cl.** **514/102;** 546/23; 558/161; 562/13; 562/21

[58] **Field of Search** ..... 260/502.4 P; 514/102

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[57] **ABSTRACT**

Novel cyclic geminal-diphosphonic acid compounds, and pharmaceutical compositions containing these compounds, which are useful for treating diseases characterized by abnormal calcium and phosphate metabolism; and a method of treating diseases characterized by abnormal calcium and phosphate metabolism utilizing these novel cyclic diphosphonic acid compounds.

24 Claims, No Drawings