

- [54] **HYDROXYLAPATITE CERAMIC**
- [75] **Inventor: Michael Jarcho, Schodack, N.Y.**
- [73] **Assignee: Sterling Drug Inc., New York, N.Y.**
- [21] **Appl. No.: 764,266**
- [22] **Filed: Jan. 31, 1977**

**Related U.S. Application Data**

- [63] Continuation-in-part of Ser. No. 707,315, Jul. 21, 1976, abandoned, which is a continuation-in-part of Ser. No. 593,303, Jul. 7, 1975, abandoned, which is a continuation-in-part of Ser. No. 494,240, Aug. 2, 1974, abandoned.
- [51] **Int. Cl.<sup>2</sup> ..... A61F 1/24; A61K 5/01; C09K 3/00; C04B 35/00**
- [52] **U.S. Cl. .... 3/1.9; 128/92 C; 32/10 A; 32/8; 32/12; 32/15; 106/35; 106/39.5**
- [58] **Field of Search ..... 106/35, 63, 39.5; 260/42.14, 42.15, 988.11; 3/1.9; 128/92 C; 32/8, 12, 15, 10 A**

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- 3,787,900 1/1974 McGee ..... 3/1
- 3,873,327 3/1975 Duff ..... 106/35

**OTHER PUBLICATIONS**

- Bett et al., "Hydroxyapatite Catalysts," J A Chem. Soc. 89, 5535 (1967).
- Kutty, T. R. "Thermal Decomposition of Hydroxylapatite," Indian J Chem. II, 695, (1973).
- Primary Examiner*—Winston A. Douglas
- Assistant Examiner*—Mark Bell
- Attorney, Agent, or Firm*—Paul E. Dupont; B. Woodrow Wyatt

[57] **ABSTRACT**

A novel ceramic form of hydroxylapatite and a novel ceramic product comprising a mixture of the latter and whitlockite, the preparation of these ceramics and dental restorative compositions and dental and surgical prosthetic materials containing the same are disclosed. Also described is a novel and improved process for producing polycrystalline ceramic oxides.

**43 Claims, No Drawings**