



US005229136A

United States Patent [19]

[11] Patent Number: **5,229,136**

Mark et al.

[45] Date of Patent: **Jul. 20, 1993**

- [54] **LOW CALORIC DENSITY ENTERAL FORMULATION DESIGNED TO REDUCE DIARRHEA IN TUBE-FED PATIENTS**
- [75] Inventors: **David A. Mark**, Oak Park; **Lance Stalker**, Grayslake, both of Ill.
- [73] Assignee: **Clintec Nutrition Co.**, Deerfield, Ill.
- [21] Appl. No.: **887,361**
- [22] Filed: **May 21, 1992**
- [51] Int. Cl.⁵ **A61K 35/20**
- [52] U.S. Cl. **424/535; 424/195.1; 426/72; 426/583; 426/804**
- [58] Field of Search 424/195.1, 535; 426/72-74, 583, 601-602, 648, 656-658, 800-804

- [56] **References Cited**
U.S. PATENT DOCUMENTS
 4,670,268 6/1987 Mahmoud 426/72
 4,959,350 9/1990 Frokjaer et al. 514/2

4,999,197 3/1991 Wursch 424/195.1

Primary Examiner—Marianne M. Cintins
Assistant Examiner—Michael B. Hydorn
Attorney, Agent, or Firm—Hill, Steadman & Simpson

[57] **ABSTRACT**

The present invention provides an enteral product for providing nutritional requirements to a patient comprising: a caloric content of less than 1.00 Kcal/ml; an osmolality of less than 300 mOsm; and a fiber content of preferably greater than 15 gms/liter. Additionally, the present invention provides a method of providing nutrition to a patient through a tube-fed enteral product and reducing the risk of diarrhea comprising the steps of: providing a sterile enteral product, that does not require diluting, having an osmolality of less than 300 mOsm and a caloric content of less than 1.0 Kcal/ml, but, having a fiber content of greater than 15 gms/liter; and enterally administering the product to a patient.

14 Claims, No Drawings