US006808736B2

(12) **United States Patent**
**Rangavajhyala et al.**

(10) **Patent No.: US 6,808,736 B2**
(45) **Date of Patent: Oct. 26, 2004**

(54) **SOY HYDROLYSATE BASED NUTRITIONAL FORMULATIONS**

(75) Inventors: **Nagendra Rangavajhyala**, New Milford, CT (US); **Constance L. Whippie**, New Milford, CT (US); **Chandrasekhara R. Mallangi**, New Milford, CT (US); **Steven Kwon**, Pasadena, CA (US)

(73) Assignee: **Nestec S.A.**, Vevey (CH)

( * ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 255 days.

(21) Appl. No.: **09/681,799**

(22) Filed: **Jun. 7, 2001**

(65) **Prior Publication Data**

US 2003/0017232 A1 Jan. 23, 2003

(51) **Int. Cl.**[7] ..... **A23L 2/38**

(52) **U.S. Cl.** ..... **426/598**; 426/656; 426/801; 426/661

(58) **Field of Search** ..... 426/587, 656, 426/658, 456, 661, 72, 74

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | | |
|---|---|---|---|---|---|
| 4,906,482 | A | * | 3/1990 | Zemel et al. | 426/74 |
| 5,416,077 | A | * | 5/1995 | Hwang et al. | 514/54 |
| 5,514,655 | A | * | 5/1996 | DeWille et al. | 514/21 |
| 5,547,927 | A | * | 8/1996 | Cope et al. | 514/2 |
| 5,565,225 | A | * | 10/1996 | Johnston | 426/2 |
| 5,777,080 | A | * | 7/1998 | Boatright | 530/378 |
| 5,998,363 | A | * | 12/1999 | Forse et al. | 514/2 |
| 6,017,550 | A | | 1/2000 | Berk et al. | |
| 6,022,702 | A | * | 2/2000 | Tsumura et al. | 435/68.1 |
| 6,077,558 | A | * | 6/2000 | Euber | 426/601 |
| 6,099,871 | A | * | 8/2000 | Martinez | 426/2 |
| 6,241,996 | B1 | * | 6/2001 | Hahn | 424/439 |
| 6,313,273 | B1 | * | 11/2001 | Thomas et al. | 530/378 |
| 6,322,846 | B1 | * | 11/2001 | Gandhi et al. | 426/634 |
| 6,365,218 | B1 | * | 4/2002 | Borschel et al. | 426/573 |
| 6,436,464 | B1 | * | 8/2002 | Euber | 426/654 |
| 6,451,359 | B1 | * | 9/2002 | Nsofor | 426/46 |
| 6,511,696 | B2 | * | 1/2003 | Gohman et al. | 426/601 |
| 2001/0043958 | A1 | * | 11/2001 | McEwen et al. | 424/757 |
| 2002/0064549 | A1 | * | 5/2002 | Shehadeh | 424/439 |
| 2002/0176911 | A1 | * | 11/2002 | Borschel et al. | 426/72 |

FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| DE | 198 56 789 | | 6/2000 |
| EP | 1236405 | * | 4/2002 |
| GB | 2053228 | * | 2/1981 |
| JP | 8-33448 | | 2/1996 |
| RU | 1494898 | | 12/1989 |
| WO | 94/26129 | | 11/1994 |
| WO | WO 94/26129 | * | 11/1994 |

OTHER PUBLICATIONS

21 CFR Part 105. Revised as of Apr. 1, 1982, p. 58–61.*
21 Code of Federal Regulations Parts 100–169, Revised as of Apr. 1, 1982 p 59–62.*
21 CFR 105.65–105.66 Infant Foods, Apr. 1, 1982.*

* cited by examiner

*Primary Examiner*—Carolyn Paden
(74) *Attorney, Agent, or Firm*—Bell, Boyd & Lloyd LLC

(57) **ABSTRACT**

Infant formulas and methods of providing nutrition to an infant are provided. The formula includes soy hydrolysate and other nutrients.

**28 Claims, No Drawings**