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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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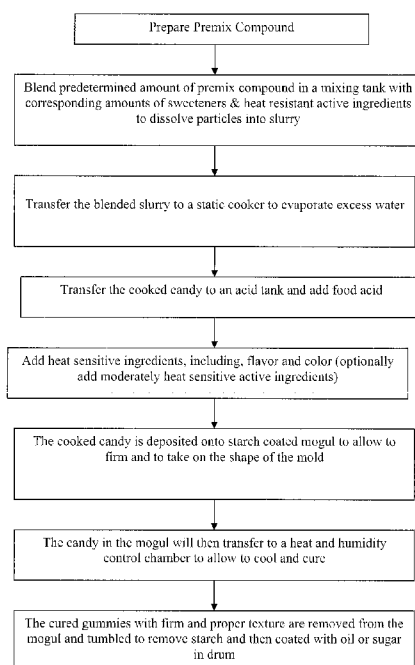
(54) **Title:** CHEWABLE SUPPLEMENT WITH LIVE MICROORGANISMS

FIG. 1

(57) **Abstract:** A chewable composition for the oral delivery of live microorganisms is provided. The chewable composition includes a delivery vehicle and an active ingredient incorporated therein. The delivery vehicle may include an organic or non-organic gummy candy including a binding agent, sweetener, flavoring, and/or coloring. The active ingredient may include a predetermined amount of at least one probiotic. The delivery vehicle may also include a predetermined amount of at least one prebiotic. The delivery vehicle may also include any combination of nutraceuticals, vitamins, minerals, antioxidants, soluble and insoluble fiber, herbs, plants, probiotics, prebiotics, antioxidants, amino acids, fatty acids, digestive enzymes, dietary supplements, or any other health promoting ingredient.

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- *with international search report (Art. 21(3))*
- *with information concerning incorporation by reference of missing parts and/or elements (Rule 20.6)*

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - A61K 9/40, 9/28, 9/68 (2013.01)

USPC - 424/440, 93.1, 93.45

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): A61K 9/40, 9/28, 9/68; A01N 63/02; A23G3/34, A61K 35/74 (2013.01)

USPC: 424/440, 93.1, 93.45, 93.46, 93.3, 410, 439; 426/71, 61, 576, 661, 435/832, 853, 940

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP, DE-G, DE-A, DE-T, DE-U, GB-A, FR-A); Google; Google Scholar; DialogPRO; Probiotic Lactobacillus, Bifidobacterium, Saccharomyces, Lactococcus, Bacilli, acidophilus, bifidus, propionibacteria, Prebiotic, oligosaccharide, soluble-fiber, oligofructose, inulin, starch, arabinoxylan, arabinogalactan, galactomannan, polydextrose, gummy, gummies, gelatin, cook

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                          | Relevant to claim No. |
|-----------|-------------------------------------------------------------------------------------------------------------|-----------------------|
| X         | US 2005/0208035 A1 (SPIVEY-KROBATH, E et al.) September 22, 2005; paragraphs [0012], [0059], [0061], [0064] | 1-11                  |
| X         | US 2006/0251768 A1 (BOUQUERAND, PE) November 9, 2006; paragraphs [0025]-[0027], [0047]-[0049], [0062]       | 12, 14-16, 18         |
| Y         |                                                                                                             | 13, 17, 19-20         |
| Y         | US 2007/0196496 A1 (FARBER, M et al.) August 23, 2007; paragraphs [0133], [0194]-[0195]                     | 13, 17, 19-20         |
| X         | US 2006/0263344 A1 (SKOP, M et al.) November 23, 2006; entire document                                      | 1-11                  |
| X         | WO 2008/138571 A1 (VERGNAULT, G) November 20, 2008; entire document                                         | 1-11                  |
| X         | US 2007/0275129 A1 (PERSHAD, O et al.) November 29, 2007; entire document                                   | 1-11                  |
| X         | US 2008/0260906 A1 (STOJANOVIC, M) October 23, 2008; entire document                                        | 1-11                  |
| X         | WO 2007/125558 A1 (MOGNA, G et al.) November 8, 2007; entire document                                       | 1-11                  |
| X         | US 2003/0165604 A1 (TSUBAKI, K et al.) September 4, 2003; entire document                                   | 1-11                  |
| X         | US 2003/0138520 A1 (BELL, DA et al.) July 24, 2003; entire document                                         | 1-11                  |



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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------|-----------------------|
| X         | WO 2010/059022 A1 (CRUZ SERRANO, JA) May 27, 2010; abstract                        | 1, 6                  |
| A         | US 2009/0011048 A1 (COLEMAN, HD et al.) January 8, 2009; entire document           | 1-20                  |
| A         | US 4950689 A (YANG, RK et al.) August 21, 1990; entire document                    | 1-20                  |