



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(21) International Application Number:</b> PCT/IT00/00130<br><b>(22) International Filing Date:</b> 7 April 2000 (07.04.00)<br><br><b>(30) Priority Data:</b><br>683/99                      13 April 1999 (13.04.99)                      CH<br><br><b>(71) Applicant (for all designated States except US):</b> SIGMA-TAU<br>HEALTHSCIENCE S.P.A. [IT/IT]; Via Treviso, 4, I-00040<br>Pomezia (IT).<br><br><b>(72) Inventor; and</b><br><b>(75) Inventor/Applicant (for US only):</b> WEISSMAHR, Joseph, A.<br>[CH/CH]; Loorenrain 17, CH-8053 Zürich (CH).<br><br><b>(74) Agents:</b> CAVATTONI, Fabio et al.; Cavattoni - Raimondi,<br>Viale dei Parioli, 160, I-00197 Roma (IT).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> DIETARY SUPPLEMENT DERIVED FROM FERMENTED MILKS FOR THE PREVENTION OF OSTEOPOROSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>(57) Abstract</b><br><p>A process is described for manufacturing dietary supplements (food integrators) by means of a natural fermentation, including the following steps: a) preparation of a "mix" at a 18° Centigrade temperature, containing one or more types of pasteurized milk from animal origin; b) introduction in such a "basic material" of a 1.5-4.5 % in weight of polysaccharide "grains" mainly formed "friendly bacteria"; c) maintenance of the previous substance at a 18-25° Centigrade temperature for a first period of 6-12 hours then adding a quantity of 1-3 % in weight of a second pool of polysaccharide "grains", mainly formed by yeasts; d) maintenance of the substance at 18-25 °C during a second period of 6-12 hours, by adding again 2.5-6.5 % in weight of "grains" mainly formed by yeasts, then adding some minerals (calcium, magnesium, etc.) in proportion 0.2-1.2 % of weight; e) separation, by filtration, of different components of the substance, among whose a "residual matrix" composed by grains of polysaccharides containing bacteria and yeasts; f) drying of the substance, after filtration, for obtaining a fine powder; g) preparation of various dietary supplements, presented in tablets or "sachets" or other formulations, useful in the treatment of osteoporosis and other degenerative conditions.</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |