

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 November 2007 (29.11.2007)

PCT

(10) International Publication Number
WO 2007/137125 A3

(51) International Patent Classification:
A23L 1/317 (2006.01) A23J 3/14 (2006.01)
A23J 3/26 (2006.01)

(74) Agents: AMJAD, Holly, M. et al.; P.O. Box 88940, St. Louis, Missouri 63188 (US).

(21) International Application Number:
PCT/US2007/069157

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date: 21 May 2007 (21.05.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/437,164 19 May 2006 (19.05.2006) US
11/749,540 16 May 2007 (16.05.2007) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): SOLAE, LLC [US/US]; P.O. Box 88940, St. Louis, Missouri 63188 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MCMINDES, Matthew, K. [US/US]; 708 Forsheer Court, Chesterfield, Missouri 63017 (US). GODINEZ, Eduardo [US/US]; 1275 C Woodchase Lane, Chesterfield, Missouri 63017 (US). MUELLER, Izumi [US/US]; 521 Trails Ridge Court, Glen Carbon, IL 63024 (US). ORCUTT, Mac [US/US]; 3626 Utah Place, St. Louis, Missouri 63116 (US). ALTEMUELLER, Patrica, A. [US/US]; 943 Newport, Webster Groves, Missouri 63119 (US).

Published:

— with international search report

(88) Date of publication of the international search report:
24 January 2008

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2007/137125 A3

(54) Title: A PROTEIN COMPOSITION AND ITS USE IN RESTRUCTURED MEAT AND FOOD PRODUCTS

(57) Abstract: The invention provides protein compositions containing structured protein products having protein fibers that are substantially aligned.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/069157

A. CLASSIFICATION OF SUBJECT MATTER INV. A23L1/317 A23J3/26 A23J3/14		
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) A23J A23L		
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 practical, search terms used) EPO-Internal, WPI Data, FSTA		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/023518 A (SOLAE LLC [US]; MCMINDES MATTHEW [US]; GODINEZ EDUARDO [US]) 2 March 2006 (2006-03-02) page 9, paragraph 33 page 16, paragraph 58 - paragraph 59; example 1	1-55
X	WO 88/06001 A (INT FOODS CORP [US]) 25 August 1988 (1988-08-25) example 2	1, 10, 13, 16
X	EP 0 048 533 A (GEN FOODS CORP [US]) 31 March 1982 (1982-03-31) claim 7	1, 10, 13
A	DD 139 385 A1 (ULBRICH WILFRIED; PETER REINHARD; RAEUBER HANS JOERG) 2 January 1980 (1980-01-02) page 1, paragraph 2	1-55
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed		*T* 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 *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *8* document member of the same patent family
Date of the actual completion of the international search 29 October 2007		Date of mailing of the international search report 08/11/2007
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Saunders, Thomas

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2007/069157

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
WO 2006023518	A	02-03-2006	AU 2005277482 A1	02-03-2006
			CA 2575644 A1	02-03-2006
			EP 1778030 A1	02-05-2007
			KR 20070059100 A	11-06-2007
WO 8806001	A	25-08-1988	AU 1396288 A	14-09-1988
			EP 0303679 A1	22-02-1989
			JP 2501262 T	10-05-1990
EP 0048533	A	31-03-1982	CA 1168084 A1	29-05-1984
			JP 57016654 A	28-01-1982
DD 139385	A1	02-01-1980	NONE	