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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, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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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27 December 2013

(54) **Title:** SYSTEM FOR MANAGING THE NUTRITIONAL CONTENT FOR NUTRITIONAL SUBSTANCES

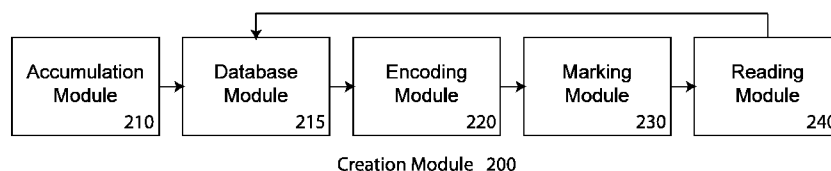


Figure 5

(57) **Abstract:** Disclosed herein is an information encoding, marking, tracking, and transmission system for information related to nutritional substances, including nutritional content. Upon the creation of a nutritional substance, whether grown, raised, caught, collected or synthesized, information regarding the nutritional substance is accumulated, encoded and referenced to the particular nutritional substance. This information can be marked directly on the nutritional substance, but can instead be stored elsewhere, and referenced to the nutritional substance by means of a marking, unique identifier, a unique inherent property, unique genetic attribute, or an induced genetic attribute. A consumer of the nutritional substance can use this reference to retrieve the information regarding the creation of the particular nutritional substance.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/36666

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G09B 19/0092 (2013.01)

USPC - 434/127

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): G06F 17/30864; G09B 19/0092 (2013.01); USPC: 707/705; 434/127

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-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPro (Derwent, INSPEC, NTIS, PASCAL, Current Contents Search, Dissertation Abstracts Online, Inside Conferences); IP.com; Google Scholar; nutrition, substance, content, information, storage, encode

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2011/0236862 A1 (CULVER, S et al.) September 29, 2011, paragraph [0035], paragraph [0149], paragraph 0151]	1-4, 6, 7 and 10 ----- 5, 8 and 9
Y	US 2010/0097193 A1 (TANG, P) April 22, 2010, Abstract, paragraph [0016]	5, 8 and 9
A	US 2010/0216098 A1 (MONTGOMERY, B) August 26, 2010, entire document	1

☐ Further documents are listed in the continuation of Box C.

* 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 application or patent 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

"&" document member of the same patent family

Date of the actual completion of the international search

10 September 2013 (10.09.2013)

Date of mailing of the international search report

04 OCT 2013

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/36666

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I: Claims 1-10; Group II: Claims 11-25; Group III: Claims 26-54; Group IV: Claims 55-63

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-10 are directed toward a dynamic information identification system for nutritional substances including a storage system for storing the encoded information and the dynamic information relating to the change in the nutritional content of the nutritional substance.

Group II: Claims 11-25 are directed toward a dynamic information identification system for nutritional substances including an encoded information is indicative of the origin of the nutritional substance and the change in caloric, nutritional, organoleptic or aesthetic value occurs during creation of the nutritional substance.

Continued Within the Extra Page

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Group I: Claims 1-10

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US13/36666

-Continued from Box No. III: Observations where unity of invention is lacking-

Group III: Claims 26-54 are directed toward an information identification system for nutritional substances including an identifier on the particular nutritional substance containing the dynamically generated information and a reader for reading the identifier.

Group IV: Claims 55-63 are directed toward a method of tracking a nutritional substance including associating the changes to a source information with at least one of a first identifier and a second identifier.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The common technical feature shared by Groups I-IV are a dynamic information identification system for nutritional substances. However, this common feature is previously disclosed by US 8,117,176 B2 (Lee). Lee discloses a dynamic information identification system for nutritional substances (a food nutrition management system provides a portable electronic device to a user for inputting a personal data and special codes and the personal data and special codes are registered at a database, abstract).

Since the common technical feature is previously disclosed by the Lee reference, this common feature is not special and so Groups I-IV lack unity.