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(54) Title: CONSUMER INFORMATION SYSTEM FOR NUTRITIONAL SUBSTANCES

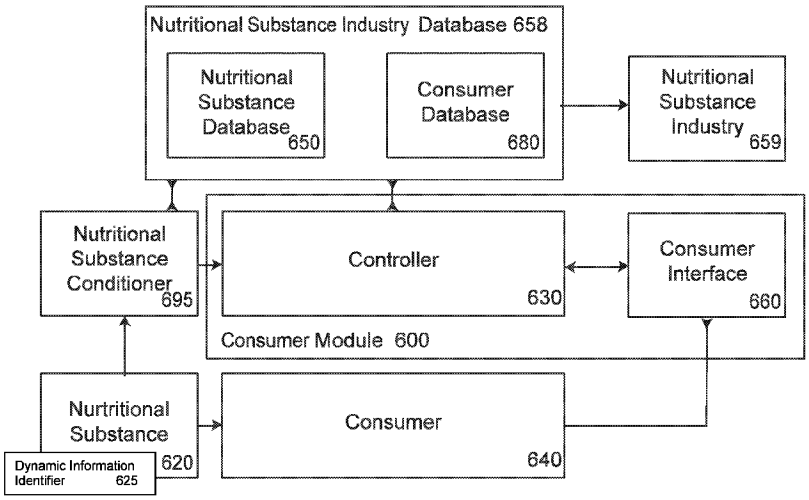


Figure 8

(57) Abstract: Disclosed herein is a consumer information and navigation system for nutritional substances. The consumer information and navigation system obtains information regarding the nutritional substance sought for consumption by a consumer, provides that information to the other constituents in the nutritional substance supply system, and provides an indoor navigation system to locate such nutritional substances.

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INTERNATIONAL SEARCH REPORT PCT/US2013/036668 06.12.2013

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06Q 30/02 (2013.01)
USPC - 705/27.1
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) - G06Q 30/00, 30/02 (2013.01)
USPC -705/3, 7.11, 15, 26.7, 26.9, 27.1, 27.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - G06Q 30/0641, 30/0601 (2013.01)

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

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 2005/0049920 A1(DAY et al) 03 March 2005 (03.03.2005) entire document	20, 22, 23 ---- 1-6, 9-10, 21
X -- Y	US 2009/0099873 A1 (KURPLE) 16 April 2009 (16.04.2009) entire document	24-26, 84 ---- 4, 7-19, 21
Y	US 2011/0029364 A1 (ROEDING et al) 03 February 2011 (03.02.2011) entire document	1-19
Y	US 2008/0195456 A1 (FITZPATRICK et al) 14 August 2008 (14.08.2008) entire document	14
A	US 2007/0055573 A1 (GRELL) 08 March 2007 (08.04.2007) entire document	1-26, 84

☐ 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	Date of mailing of the international search report
25 November 2013	06 DEC 2013
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

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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:

See Extra Sheet

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.:
1-26, 84

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 application No.
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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 fees must be paid.

Group I, claims 1-26 and 84, drawn to a communication system for nutritional substances, a method of obtaining and associating consumption and source information for nutritional substances comprising: an ambient magnetic field anomaly-based positioning indoor navigation system available at the consumer interface for locating said at least one nutritional substance, and associating the consumption information with source information.

Group II, claims 27-83, drawn to a communication system for nutritional substances, comprising: transmitting the specific consumer, the general consumer, and the source information of the nutritional substance, transmitting the consumer's information to the information storage system, and transmitting the information regarding the particular consumer and the information regarding at least one of a nutritional, organoleptic and-aesthetic value for the particular nutritional substance.

The inventions listed as Groups I and II 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 special technical feature of the Group I invention: an ambient magnetic field anomaly-based positioning indoor navigation system available at the consumer interface for locating said at least one nutritional substance, and associating the consumption information with source information as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: transmitting the specific consumer, the general consumer, and the source information of the nutritional substance, transmitting the consumer's information to the information storage system, and transmitting the information regarding the particular consumer and the information regarding at least one of a nutritional, organoleptic and-aesthetic value for the particular nutritional substance as claimed therein is not present in the invention of Group I.

Groups I and II share the technical features of obtaining and associating consumption information of a nutritional substance comprising a nutritional substance database comprising nutritional substance information for at least one nutritional substance, a consumer database comprising information relating to the consumer and at least one nutritional substance, a dynamic information identifier associated with the nutritional source, and a consumer interface means for retrieval of information.

However, these shared technical features do not represent a contribution over the prior art. Specifically, US 2005/0049920 A1 to DAY et al. discloses obtaining and associating consumption information of a nutritional substance (para. 31: nutritional information associated with the food item; para 47: the system queries the user for data associated with consumption rate; para. 48 estimating a set of consumption rates... dietary objectives of the user) comprising a nutritional substance database comprising nutritional substance information for at least one nutritional substance (para. 31: a secondary nutritional database 41, nutritional information associated with the food item, the nutritional information is provided by a secondary nutrition database 41), a consumer database (para.36, customer purchases database 52) comprising information relating to the consumer and at least one nutritional substance (para. 35, when the user is buying groceries and therefore is able to provide dietary recommendations), a dynamic information identifier associated with the nutritional source (para. 32: management system 70 makes changes related of data relating to food items to the food item database 51 and provides this updated information to the secondary nutrition database 41).

Further, US 2007/0055573 A1 to GRELL discloses a dynamic information identifier associated with the nutritional source (para. 1, dynamically providing a purchaser with nutritional information; also GRELL, para. 6, 7) and a consumer interface means for retrieval of information (para 59, and 61: graphical user interface (GUI) to assist a purchaser 302 and server 304 retrieves the nutritional information from database 270... and sends the purchaser the nutritional information of the selected food items; also GRELL, para. 69, 70).

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.