



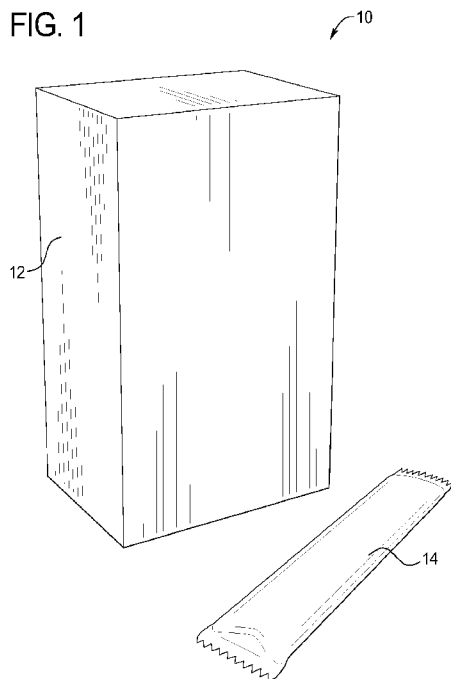
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[Continued on next page]

(54) Title: NUTRITIONAL COMPOSITIONS FOR ENHANCING PERFORMANCE AND METHODS FOR MAKING AND USING SAME

FIG. 1



(57) Abstract: ABSTRACT OF THE DISCLOSURE A nutritional composition comprising a carbohydrate fraction comprising glucose and fructose in a ratio from about 3:1 to about 1:1, wherein: the powder nutritional composition is designed to be dissolved in water, a serving size of the nutritional composition is from about 1 to about 20 g, the carbohydrate fraction comprises at least 30% glucose and fructose, the carbohydrate fraction provides at least 50% of the energy of the nutritional composition; and the nutritional composition comprises an energy density from about 800 kJ/100 g to about 2200 kJ/100 g. The performance may be, for example, athletic, academic, or other performances requiring physical stamina and/or mental alertness.

**Declarations under Rule 4.17:**

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER INV. A23L1/09 A23L1/29 A23L1/30 ADD.		
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) 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 practicable, search terms used) EPO-Internal, BIOSIS, FSTA, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JEUKENDRUP AE; JENTJENS R.: "Oxidation of carbohydrate feedings during prolonged exercise", SPORTS MED, vol. 29, no. 6, 2000, pages 407-424, XP002681884, cited in the application	1-4,7-23
Y	abstract page 411, column 2, last paragraph - page 412, paragraph 1 page 413, column 1, paragraph 2 - page 413, column 2, paragraph 1 page 414, column 1, paragraph 3 - page 415, column 1, paragraph 3 page 415, column 2, paragraph 2 - page 416, column 1, paragraph 3 ----- -/--	8-18
☒ Further documents are listed in the continuation of Box C. ☐ 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 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 20 December 2012		Date of mailing of the international search report 22/01/2013
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Heirbaut, Marc

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/033991

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JENTJENS R L P G ET AL: "Oxidation of combined ingestion of glucose and fructose during exercise", JOURNAL OF APPLIED PHYSIOLOGY, AMERICAN PHYSIOLOGICAL SOCIETY, US, vol. 96, 1 January 2004 (2004-01-01), pages 1277-1284, XP002496461, ISSN: 8750-7587, DOI: 10.1152/JAPPLPHYSIOL.00974.2003 [retrieved on 2003-12-02]	1-23
Y	the whole document	8-18
T	Brand-Miller J et al.: "The Australian paradox", , XP002681843, Retrieved from the Internet: URL:http://www.theaustralianparadox.com.au/ Fructose.php [retrieved on 2012-08-15] paragraph [0001]	
A	Ashurst, P R (ed.): "Production and packaging of non-carbonated fruit juices and fruit beverages", 1995, Blackie Academic and Professional, XP002682776, ISBN: 0 7514 0169 2 pages 310-330, the whole document	8-18
A	JENTJENS R ET AL: "Determinants of post-exercise glycogen synthesis during short-term recovery", SPORTS MEDICINE, ADIS PRESS, AUCKLAND, NZ, vol. 33, no. 2, 1 January 2003 (2003-01-01), pages 117-144, XP008084397, ISSN: 0112-1642, DOI: 10.2165/00007256-200333020-00004 abstract page 130, column 2, paragraph 2 - page 132, column 1, paragraph 1	1-23

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/033991

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 additional 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 an 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.:

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-18

Nutritional composition (claims 1-7); packaged food product comprising said nutritional composition (claims 8-11); method for making a liquid nutritional composition from said nutritional composition (claims 12-18)

2. claims: 19-23

Method for improving performance of an individual by administering said nutritional composition (claims 19-23)
