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- (71) Applicant: **CAPE SPEAR PHARMACEUTICALS, LTD.** [CA/CA]; 9 Wick Crescent, Ottawa, ON K1J 7H1 (CA).
- (72) Inventors: **BARNES, David**; 5312 Long Island Road, Ottawa, ON K4M 1E8 (CA). **BARKER, Jonathan**; 9 Wick Crescent, Ottawa, ON K1J 7H1 (CA). **HAGGERTY, Stephen**; 27 Carlingford Street, Paradise, NI, A1L 0C2 (CA).
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- with international search report (Art. 21(3))
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WO 2014/140867 A3

(54) Title: COMPOSITIONS AND METHODS FOR ADMINISTRATION TO SUBJECTS WITH DYSPHAGIA

(57) Abstract: Provided are novel methods and compositions for administration of pharmaceuticals to subjects with dysphagia. Pharmaceuticals are associated with beads and administered with food, beverage or cosmetic to provide ease of administration to subjects with dysphagia. Environmental indicators are associated with beads for Quality Assurance.

## INTERNATIONAL SEARCH REPORT

International application No.

**PCT/IB2014/001041**

A. CLASSIFICATION OF SUBJECT MATTER IPC: <b>A61K 9/16</b> (2006.01), <b>A61K 9/50</b> (2006.01)		
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(2006.01): A61K 9/16, A61K 9/50		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) TotalPatent and Canadian Patent Database with keywords: API, Swallow, Food, Indicator, Pharmaceutical, Formulation, Dysphagia; GoogleScholar : Small granules for easy swallowing		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	WO2012145446 A1 (THOMSON K. C. et al.) 26 October 2012 (26-10-2012) *whole document*	1-7, 11, 12, 31-34 and 45
X, Y	EP1809251 B1 ( LAI J. et al.) 25 July 2007 (25-07-2007) *whole document*	1-7, 11, 12, 31-34, 44 and 45
X, Y	US20120189703 A1 (FALLON J. M. et al.) 26 July 2012 (26-07-2012) *whole document*	1-7, 11, 12, 31-34 and 45
X, P	US20140127307 A1 (VENKATESH G. M. et al.) 08 May 2014 (08-05-2014) *whole document*	1-7, 11, 12, 31-34 and 45
X, Y	Genton P. "Progress in pharmaceutical development presentation with improved pharmacokinetics: a new formulation for valproate", Acta Neurolog. Scand., 2005: 112 (Suppl. 182): pages 26-32 *whole document*	1-7, 11, 12, 31-34, 44 and 45
<input type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.
* "A" "E" "L" "O" "P"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date 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) document referring to an oral disclosure, use, exhibition or other means 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 24 September 2014 (24-09-2014)		Date of mailing of the international search report 24 October 2014 (24-10-2014)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001-819-953-2476		Authorized officer  <b>Geeta Chowdhury (819) 956-6129</b>

## INTERNATIONAL SEARCH REPORT

International application No.

**PCT/IB2014/001041****Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the 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.  Claim Nos.: 79-118

because they relate to subject matter not required to be searched by this Authority, namely:

Claims 79-118 are directed to a method for treatment of the human or animal body by surgery or therapy, which the International Searching Authority is not required to search. However, this Authority has carried out a search based on the alleged effect or purpose/use of the product defined in claim 79-118.

2.  Claim 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.  Claim 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:

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 claim 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 claim 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.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/IB2014/001041**

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date		
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US2014127307A1	08 May 2014 (08-05-2014)	None			