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(54) Title: SUNSCREEN COMPOSITIONS

(57) Abstract: The present invention provides a taste-masked sunscreen composition comprising at least one sunscreen and a spider ester wherein the sunscreen and the spider ester are in intimate association. A method of making the taste-masked sunscreen composition is provided. The sunscreen composition may be in the form of a lip balm. Preferred sunscreens are organic sunscreens such as avobenzone, homosalate, octylsalate, oxybenzone and octinoxate. The spider ester may comprise fatty acid groups connected through polyoxyalkylene chairs to a glycerol, glycol or sorbitol linking group, e.g. sorbeth - 2 -hexaoleate.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. A61K8/27 A61K8/29

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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)

A61K A61Q

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the	e relevant passages	Relevant to claim No.		
X Y	US 2008/319069 A1 (O'LENICK KEVIN A [US] 1,2,5,7, ET AL) 25 December 2008 (2008-12-25) 8,10 cited in the application paragraph [0072] - paragraph [0084] 1-22 paragraph [0098] - paragraph [0099] paragraph [0106] - paragraph [0109] examples 44, 53				
X Y	US 2009/253812 A1 (O'LENICK KE ET AL) 8 October 2009 (2009-10 cited in the application sentence 29, paragraph 8 paragraph [0085] - paragraph [0092]	-08)	1-3,5,7, 8,10 1-22		
	ner documents are listed in the continuation of Box C.	X See patent family annex.			
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"T" later document published after the inter or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cicannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cicannot be considered to involve an invidual document is combined with one or moments, such combination being obviouin the art. "&" document member of the same patent for t	the application but sory underlying the laimed invention be considered to cument is taken alone laimed invention rentive step when the re other such docusts to a person skilled		
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International application No
PCT/US2010/052292

tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 2009/171057 A1 (O' LENICK KEVIN [US] ET AL O'LENICK KEVIN [US] ET AL) 2 July 2009 (2009-07-02) cited in the application the whole document	1-22
US 6 231 838 B1 (MOREFIELD ELAINE MARIE [US] ET AL) 15 May 2001 (2001-05-15) column 1, line 38 - line 43 column 2, line 56 - column 2, line 63 example 1	1-22
JP 2006 335654 A (SAKAI CHEMICAL INDUSTRY CO) 14 December 2006 (2006-12-14) abstract	1-22
JP 2003 212720 A (KOSE CORP) 30 July 2003 (2003-07-30) abstract	1-22
	US 2009/171057 A1 (O' LENICK KEVIN [US] ET AL O'LENICK KEVIN [US] ET AL) 2 July 2009 (2009-07-02) cited in the application the whole document US 6 231 838 B1 (MOREFIELD ELAINE MARIE [US] ET AL) 15 May 2001 (2001-05-15) column 1, line 38 - line 43 column 2, line 56 - column 2, line 63 example 1 JP 2006 335654 A (SAKAI CHEMICAL INDUSTRY CO) 14 December 2006 (2006-12-14) abstract JP 2003 212720 A (KOSE CORP) 30 July 2003 (2003-07-30)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2010/052292

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2008319069	A1	25-12-2008	US 7473707 B1 US 2009170943 A1 US 2009253812 A1	06-01-2009 02-07-2009 08-10-2009
US 2009253812	A1	08-10-2009	US 7473707 B1 US 2008319069 A1 US 2009170943 A1	06-01-2009 25-12-2008 02-07-2009
US 2009171057	A1	02-07-2009	NONE	
US 6231838	В1	15-05-2001	NONE	
JP 2006335654	Α	14-12-2006	NONE	
JP 2003212720	Α	30-07-2003	NONE	