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(54) Title: COMPOSITIONS CONTAINING MODIFIED FULLERENES

(57) Abstract: Compositions containing modified fullerenes and their use, for example, as films for membranes in electrode assemblies for electrochemical cells and fuel cells such as fuel cells are described.

INTERNATIONAL SEARCH REPORT

International application No PCT/US2005/029974

INV.	FICATION OF SUBJECT MATTER C07C23/46 C08K5/02 C08J5/1 H01M8/02	8 ¢08J5/22	H01B1/12					
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC						
B. FIELDS SEARCHED								
C08K	cumentation searched (classification system followed by classification CO7C CO8L CO8J HO1B HO1M							
	tion searched other than minimum documentation to the extent that s							
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)								
EPO-Internal, CHEM ABS Data, WPI Data, PAJ								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.					
А	US 5 382 718 A (BEKIARIAN ET AL) 17 January 1995 (1995-01-17) cited in the application column 5, line 24 - line 38; cla	ims;	1					
	examples							
А	US 5 958 523 A (BRADIC ET AL) 28 September 1999 (1999-09-28) column 2, line 12 - column 3, li	ne 35;	1					
	claims; examples		·					
А	US 5 382 719 A (FAGAN ET AL) 17 January 1995 (1995-01-17) claims; examples	got .	1					
A	EP 1 353 392 A (SONY CORPORATION 15 October 2003 (2003-10-15) claims; examples)	1					
Further documents are listed in the continuation of Box C. X See patent family annex.								
* Special categories of cited documents : "T" later document published after the international filing date								
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"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention								
citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means 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								
"P" document published prior to the international filing date but in the art. "P" document member of the same patent family "&" document member of the same patent family								
Date of the	Date of the actual completion of the international search Date of mailing of the international search report							
23 February 2006								
Name and mailing address of the ISA/ Authorized officer								
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	de Lee Amore	_					
	Fax: (+31-70) 340-3016	de Los Arcos, E						

International application No. PCT/US2005/029974

INTERNATIONAL SEARCH REPORT

Box 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:						
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
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 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 fee, this Authority did not invite payment of any additional fee.						
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 - 19, 28 						
Remark on Protest The additional search fees were accompanied by the applicant's protest. 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: 1-19, 28

Composition of a polymer and cyclofluoroalkylated fullerene, films, membrane, electrode assambly and cells thereof

2. claims: 20-27

Composition of an electrocatalytic metal and a cyclofluoroalkylated fullerene, anode and cells thereof

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2005/029974

Patent document cited in search repor	t	Publication date		Patent family member(s)	Publication date
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