

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 November 2007 (01.11.2007)

PCT

(10) International Publication Number
WO 2007/123752 A3

(51) International Patent Classification:
H01G 9/00 (2006.01)

(21) International Application Number:
PCT/US2007/008004

(22) International Filing Date: 30 March 2007 (30.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/788,290 31 March 2006 (31.03.2006) US

(71) Applicants (for all designated States except US): **CRG CHEMICAL, INC.** [US/US]; 11839 Sorrento Valley Road, San Diego, CA 92121 (US). **H.C. STARCK GMBH & CO. KG** [DE/DE]; Im Schleeke 78-91, 38642 Goslar (DE).

(72) Inventors: **BRUNER, Eric, L.**; 12614 Carmel Country Road #49, San Diego, CA 92130 (US). **MERKER, Udo**; In Der Ledden 36, 51105 Köln (DE).

(74) Agent: **UHL, William, J.**; 4110 Devonwood Court, Murrysville, PA 15668 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

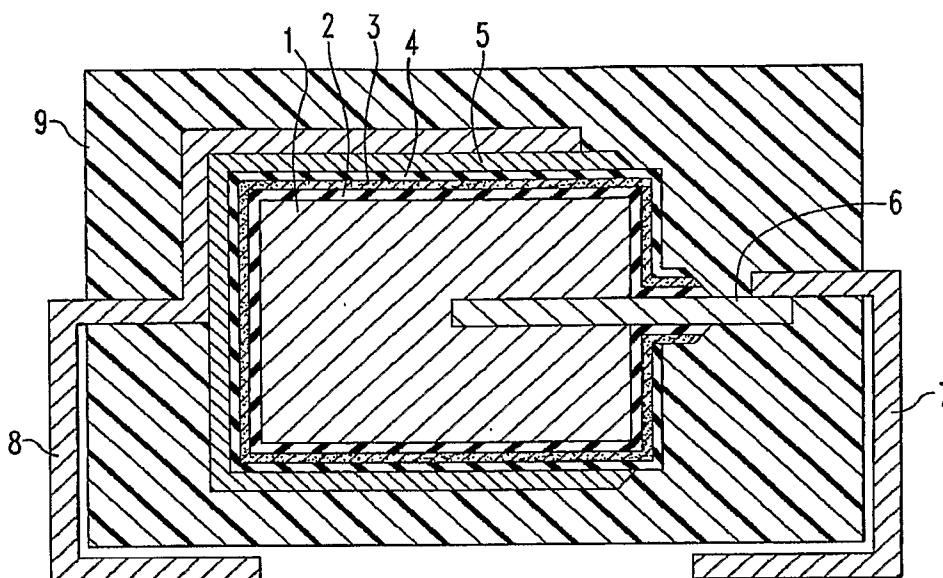
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: SOLID ELECTROLYTIC CAPACITORS



(57) Abstract: A solid electrolytic capacitor is disclosed. The capacitor comprises an organophosphorus material (3) positioned between the dielectric layer (2) and the polymeric electrolyte layer (4). The organophosphorus compound improves the interlayer adhesion between the dielectric and electrolyte layers.

WO 2007/123752 A3



(88) Date of publication of the international search report:

3 January 2008

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/008004

A. CLASSIFICATION OF SUBJECT MATTER

INV. H01G9/00

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)

H01G H01B C08L

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 relevant passages	Relevant to claim No.
X	US 2005/162815 A1 (TSENG WEN N [TW] ET AL) 28 July 2005 (2005-07-28)	1
X	claims 21-24	1, 3-6, 8, 11
Y	the whole document	2, 7, 9, 12
Y	US 4 858 078 A (MORIMOTO TAKESHI [JP] ET AL) 15 August 1989 (1989-08-15)	1
Y	column 7, lines 25-65; claims 1, 4	1-12
Y	DE 42 43 091 A1 (SIEMENS AG [DE]; BAYER AG [DE]) 23 June 1994 (1994-06-23)	1-12
Y	the whole document	1-12
Y	US 5 729 428 A (SAKATA KOJI [JP] ET AL) 17 March 1998 (1998-03-17)	1
Y	claim 1	1
A	the whole document	2-12



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 document 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

13 September 2007

Date of mailing of the international search report

04/10/2007

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Dessaux, Christophe

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/008004

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2005162815	A1	28-07-2005	US	2007072362 A1	29-03-2007
US 4858078	A	15-08-1989	JP	1205414 A	17-08-1989
DE 4243091	A1	23-06-1994	NONE		
US 5729428	A	17-03-1998	DE	19616200 A1	07-11-1996
			JP	3068430 B2	24-07-2000
			JP	8293436 A	05-11-1996