

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 March 2006 (16.03.2006)

PCT

(10) International Publication Number  
**WO 2006/029145 A3**

(51) International Patent Classification:  
*C08L 81/02* (2006.01) *C08L 81/04* (2006.01)

(21) International Application Number:  
PCT/US2005/031695

(22) International Filing Date:  
2 September 2005 (02.09.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/935,857 8 September 2004 (08.09.2004) US

(71) Applicant (*for all designated States except US*): **PRC-DESOTO INTERNATIONAL, INC.** [US/US]; 5430 San Fernando Road, Glendale, CA 91203 (US).

(72) Inventors: **COSMAN, Michael, A.**; 27803 Sandstone Court, Valencia, CA 91354 (US). **BALLADARES, Adrian, K.**; 134 Virginia Street, Unit A, El Segundo, CA 90245 (US).

(74) Agents: **PALLADINO, Donald, R.** et al.; PPG Industries, Inc., One PPG Place, Pittsburgh, PA 15272 (US).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, 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).

**Declarations under Rule 4.17:**

- *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*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:  
27 April 2006

*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.*

(54) Title: PREFORMED COMPOSITIONS IN SHAPED FORM COMPRISING POLYMER BLENDS

(57) Abstract: Preformed compositions in shaped form comprising polymer blends, and the use of these preformed compositions in shaped form to seal apertures are disclosed. In certain embodiments, the preformed compositions are electrically conductive and are capable of shielding EMI/RFI radiation. The polymer blend includes a polysulfide component and a polythioether component.



WO 2006/029145 A3

## INTERNATIONAL SEARCH REPORT

International application No  
PC/US2005/031695

## A. CLASSIFICATION OF SUBJECT MATTER

C08L81/02 C08L81/04

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)

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, PAJ, 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,P       | WO 2004/099317 A (PRC-DESOTO INTERNATIONAL, INC; COSMAN, MICHAEL, A; BALLADARES, ADRIAN)<br>18 November 2004 (2004-11-18)<br>claims; examples | 1-39                  |
| X         | WO 99/24491 A (COURTAULDS AEROSPACE, INC; REYES, ALFREDO, JR; CAMPBELL, FRANK; RANDAZ) 20 May 1999 (1999-05-20)<br>claims 1,7<br>examples     | 1-39                  |
| X         | WO 01/66642 A (PBT BRANDS, INC)<br>13 September 2001 (2001-09-13)<br>page 9, line 10 - line 14<br>claim 7<br>examples                         | 1-39                  |
|           | -----<br>-/--<br>-----                                                                                                                        |                       |

☒ 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.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

7 February 2006

Date of mailing of the international search report

15/02/2006

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

West, N

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2005/031695

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|------------------------------------------------------------------------------------|-----------------------|
| A         | US 4 020 033 A (DANNELS ET AL)<br>26 April 1977 (1977-04-26)<br>examples<br>-----  | 1                     |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/031695

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| WO 2004099317                             | A | 18-11-2004          | AU 2004236652 A1           | 18-11-2004          |
|                                           |   |                     | CA 2523700 A1              | 18-11-2004          |
|                                           |   |                     | EP 1618152 A1              | 25-01-2006          |
| WO 9924491                                | A | 20-05-1999          | AU 736628 B2               | 02-08-2001          |
|                                           |   |                     | AU 1901199 A               | 31-05-1999          |
|                                           |   |                     | BR 9813979 A               | 26-09-2000          |
|                                           |   |                     | CA 2309211 A1              | 20-05-1999          |
|                                           |   |                     | CN 1281479 A               | 24-01-2001          |
|                                           |   |                     | DE 69806046 D1             | 18-07-2002          |
|                                           |   |                     | DE 69806046 T2             | 06-02-2003          |
|                                           |   |                     | EP 1032607 A1              | 06-09-2000          |
|                                           |   |                     | ES 2174529 T3              | 01-11-2002          |
|                                           |   |                     | JP 2001522910 T            | 20-11-2001          |
| WO 0166642                                | A | 13-09-2001          | AU 4560101 A               | 17-09-2001          |
| US 4020033                                | A | 26-04-1977          | GB 1515188 A               | 21-06-1978          |