

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 December 2005 (22.12.2005)

PCT

(10) International Publication Number
WO 2005/120165 A3

(51) International Patent Classification:

C09K 21/02 (2006.01) C08K 5/3492 (2006.01)
C09K 21/08 (2006.01) C08K 3/20 (2006.01)

(21) International Application Number:

PCT/IL2005/000612

(22) International Filing Date: 9 June 2005 (09.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

162449 10 June 2004 (10.06.2004) IL

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(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, 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).

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:

22 June 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.



WO 2005/120165 A3

(54) Title: FIRE RETARDANT FORMULATIONS

(57) Abstract: A fire-retardant formulation for styrene-containing polymers comprising tris(2,4,6-tribromophenoxy)-s-triazine (FR-245), antimony trioxide and polytetrafluoroethylene (PTFE), wherein the bromine concentration in said fire-retardant formulation is from about 9.0 to about 10.5 wt. %, said antimony trioxide concentration being lower than about 3.2 wt. %.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00612

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC: C09K 21/02(2006.01),21/08(2006.01);C08K 5/3492(2006.01),3/20(2006.01)</p> <p>USPC: 252/609;524/100,101,236,409,462,464,469 According to International Patent Classification (IPC) or to both national classification and IPC</p>																							
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) U.S. : 252/609;524/100,101,236,409,462,464,469</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST Text search in USPT, USOC and PGPB</p>																							
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>JP 11-323064 A (MISUBISHI CHEMICAL CORP) 26 November 1999 (26.11.1999), see abstract, sections [0009], [0013]-[0017] and claims 1-2 of JPO machine English language translation of the JP document.</td> <td>1-8, 11-18, 21-27</td> </tr> <tr> <td>Y</td> <td>US 4,386,203 A (NAARMANN et al.) 31 May 1983 (31.05.1983), abstract and column 4, lines 57-68.</td> <td>1-8, 11-18, 21-27</td> </tr> <tr> <td>Y</td> <td>US 4,187,377 A (NARISAWA et al.) 05 February 1980 (05.02.1980), abstract, and column 8, lines 12-37.</td> <td>1-8, 11-18, 21-27</td> </tr> <tr> <td>Y</td> <td>US 3,843,650 A (PEWS et al.) 22 October 1974 (22.10.1974), abstract, and column 3, line 64 to column 4, line 2.</td> <td>1-8, 11-18, 21-27</td> </tr> <tr> <td>Y</td> <td>US 4,355,126 A (HAAF et al.) 19 October 1982 (19.10.1982), abstract and TABLE 1.</td> <td>1-8, 11-18, 21-27</td> </tr> <tr> <td>Y</td> <td>US 5,432,219 A (SHIUUEH et al.) 11 July 1995 (11.07.1995), abstract and column 6, lines 19-30.</td> <td>1-8, 11-18, 21-27</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	JP 11-323064 A (MISUBISHI CHEMICAL CORP) 26 November 1999 (26.11.1999), see abstract, sections [0009], [0013]-[0017] and claims 1-2 of JPO machine English language translation of the JP document.	1-8, 11-18, 21-27	Y	US 4,386,203 A (NAARMANN et al.) 31 May 1983 (31.05.1983), abstract and column 4, lines 57-68.	1-8, 11-18, 21-27	Y	US 4,187,377 A (NARISAWA et al.) 05 February 1980 (05.02.1980), abstract, and column 8, lines 12-37.	1-8, 11-18, 21-27	Y	US 3,843,650 A (PEWS et al.) 22 October 1974 (22.10.1974), abstract, and column 3, line 64 to column 4, line 2.	1-8, 11-18, 21-27	Y	US 4,355,126 A (HAAF et al.) 19 October 1982 (19.10.1982), abstract and TABLE 1.	1-8, 11-18, 21-27	Y	US 5,432,219 A (SHIUUEH et al.) 11 July 1995 (11.07.1995), abstract and column 6, lines 19-30.	1-8, 11-18, 21-27
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<p><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>																							
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<p>Date of the actual completion of the international search 13 March 2006 (13.03.2006)</p>		<p>Date of mailing of the international search report 25 APR 2006</p>																					
<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201</p>		<p>Authorized officer Joseph D. Anthony <i>J. Whitefield for</i> Telephone No. (571) 272-1700</p>																					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL05/00612

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US Patent Application Publication No.: 2004/0072929 A (DE SCHRYVER) 15 April 2004 (15/04.2004), abstract, and sections [0059], [0063] and [0073].	1-8, 11-18, 21-27
Y,P	US Patent Application Publication No.: 2004/0137251 A (DAVIS et al.) 15 July 2004 (15.07.2004), abstract and section [0036].	1-8, 11-18, 21-27

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00612

Box No. 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:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. 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:
Claims 9-10 and 19-20 were not searched because they are multiple dependent claims that are dependent on another multiple dependent claim.
3. Claims Nos.: 9,10,19 and 20
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 any 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 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.:
- 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.