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(54) Title: HOMOGENOUS COPOLYMERIC MATERIAL AND PROCESS FOR ITS PREPARATION

(57) Abstract: The present invention is directed to a homogenous copolymeric material that is characterized in that it is built up of - at least one polyester and/ or fragments thereof, - at least one further polymer, that is not a polyester, and/or fragments thereof, and - silicon as an interconnecting element between said polyester (s) and/ or fragments thereof and said further polymer (s) and/ or fragments thereof. There is also described a process for the preparation of this homogenous copolymeric material.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. C08G85/00 C08J11/04 C08L23/06 C08L23/12 C08L67/02
C08F8/00 C08G63/91 C08G64/42 C08G69/48 C08K5/5415
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C08G C08J C08L C08F C08K

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, COMPENDEX, IBM-TDB, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/006064 A (OFER ZEEV [IL]) 19 January 2006 (2006-01-19) cited in the application claims 1,5,8,19,21	1,2,6,7, 10-12, 16-20
X	JP 05 017643 A (TONEN CORP) 26 January 1993 (1993-01-26) abstract paragraphs [0033] - [0040]; examples 1-12; table 1	1,2, 4-10,13, 16-19
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☒ 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

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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

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G document member of the same patent family

Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	OYMAN Z.O. ET AL.: "Melt Blending of Poly(ethylene terephthalate) with Propylene in the Presence of Silane Coupling Agent" J. APPL. POLYM. SCI., vol. 89, 2003, pages 1039-1048, XP002519611 page 1040; table 1 -----	1-11, 13-19
X	US 5 250 595 A (MIYASHITA SHUNITSU [JP] ET AL) 5 October 1993 (1993-10-05) example 1 -----	1
X	JP 04 337306 A (MITSUBISHI PETROCHEMICAL CO) 25 November 1992 (1992-11-25) abstract -----	1
X	JP 2004 204210 A (JSR CORP) 22 July 2004 (2004-07-22) examples 1-6,11-15; table 2 -----	1
A	US 5 648 426 A (ZOLOTNITSKY MIKHAIL [US]) 15 July 1997 (1997-07-15) claims 1,10 -----	12,20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2008/002886

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006006064	A	19-01-2006	AT 404606 T	15-08-2008
			AU 2005261348 A1	19-01-2006
			BR PI0513150 A	29-04-2008
			CA 2569772 A1	19-01-2006
			CH 697009 A5	14-03-2008
			CN 1997685 A	11-07-2007
			DK 1773910 T3	01-12-2008
			EP 1773910 A1	18-04-2007
			ES 2312013 T3	16-02-2009
			HR 20080463 T3	30-11-2008
			JP 2008506002 T	28-02-2008
			KR 20070048696 A	09-05-2007
			SI 1773910 T1	31-12-2008
			US 2008262167 A1	23-10-2008
JP 5017643	A	26-01-1993	NONE	
US 5250595	A	05-10-1993	NONE	
JP 4337306	A	25-11-1992	NONE	
JP 2004204210	A	22-07-2004	NONE	
US 5648426	A	15-07-1997	NONE	