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(54) Title: BIOBASED POLYMER COMPOSITIONS

(57) Abstract: Hyper-branched biodegradable polymers are produced by melt processing biodegradable polymers with a branching agent at temperatures that promote free radical reactions between the biodegradable polymer and the branching agent. The biodegradable compositions have an excellent balance of mechanical properties and are suitable for flame retardant applications.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/027934**A. CLASSIFICATION OF SUBJECT MATTER*****C08L 101/16(2006.01)i, C08L 33/06(2006.01)i, C08K 5/49(2006.01)i***

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 101/16; C08F 279/00; C08J 3/00; C08F 2/00; C08F 8/00; C08K 9/04; C08F 279/02; C08G 63/60; C08G 18/42; C08G 63/91

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 practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: hyper-branched, acrylate or methacrylate, polyester, flame retardant**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 5773510 A1 (KAZMAIER; PETER M. et al.) 30 June 1998 See the abstract; and claims 1-3,7,10,14,15.	1-4, 11, 12, 14-17 5-10, 13
Y	US 2008-0221265 A1 (SODERGARD NIELS DAN ANDERS et al.) 11 September 2008 See the abstract; the description paragraphs [0031], [0043], [0051]; and claims 1, 2, 15, 19, 21, 25, 26.	5-10, 13
Y	WO 98-08898 A1 (E.I. DU PONT DE NEMOURS AND COMPANY) 05 March 1998 See the abstract.	7, 8, 10
A	US 6114489 A1 (VICARI; RICHARD et al.) 05 September 2000 See the abstract; and the claims.	1-17
A	US 2002-0002242 A1 (JOHN JAMES MCNAMARA et al.) 03 January 2002 See the abstract; and the claims.	1-17
A	US 2007-0066766 A1 (SHUN-LIANG CHEN et al.) 22 March 2007 See the abstract; and the claims.	1-17

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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