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(54) Title: FLAME-RETARDANT POLYMERIC COMPOSITIONS

(57) Abstract: The present invention describes a flame-retarded polymeric composition comprising a polyolefin; and a mixture of a halogenated flame-retardant and zeolite; and optionally a synergist, and also a flame and smoke-retarded polymeric composition comprising a polyolefin; and a mixture of a hydrated metal oxide and zeolite.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/68506

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C09K 21/00 (2007.01)

USPC - 252/609

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)
USPC: 252/609

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 57/904; 524/99, 100, 127, 371, 416, 450, 464, 469, 508 (text search)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Engineering); Google Scholar
Search Terms Used: polyolefin, polyethylene, polypropylene, halogenated, flame retardant, zeolite, clinoptilolite, antimony, hydrated metal oxide, aluminum hydroxide, magnesium hydroxide, hindered amine

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 2002/0107315 A1 (CHAUDHARY et al.) 08 August 2002 (08.08.2002); see para [0005], [0013], [0040]-[0043], [0081]-[0092], [0094], [0150]-[0155] and claim 1.	1-8 and 14-15 ----- 9-13 and 16-22
X - Y	US 2005/0086823 A1 (SUBRAMONIAN et al.) 28 April 2005 (28.04.2005); see para [0008]-[0010], [0030]-[0037], [0040], [0043], [0047]-[0051], [0147]-[0148] and claim 19.	23-26 and 31 ----- 27-30
Y	US 2003/0022968 A1 (IMANISHI) 18 June 2002 (18.06.2002); see para [0002]-[0003], [0034], [0043]-[0045].	9
Y	US 5,149,735 A (BRESSAN et al.) 22 September 1992 (22.09.1992); see col 2, ln 19-27; col 2, ln 55 to col 3, ln 11; col 3, ln 33 to col 4, ln 14.	10-13 and 27-30
Y	US 6,239,219 A (BREANT et al.) 29 May 2001 (29.05.2001); see abstract; col 3, ln 3-15; col 5, ln 33-43; col 5, ln 55 to col 7, ln 8; specifically, MB3 of table 1.	16-22
A	US 6,207,735 A (KUMA et al.) 27 March 2001 (27.03.2001); see col 2, ln 26-34; col 6, ln 57-65; col 7, ln 36-57; col 13, ln 6 to col 14, ln 7; Tables 3-1 to 7. Claims 23	23

☐ Further documents are listed in the continuation of Box C.

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