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(54) Title: SULPHUR-CONTAINING THERMOPLASTIC POLYMERS

(57) Abstract: Disclosed is a process for the production of a thermoplastic polymer containing carbon and sulphur in an atomic ratio of C:S of at least 4 and at most 36 using thiol-ene addition polymerization, preferably with feedstocks obtained from renewable resources such as fatty acids from vegetable origin. The product is preferably aliphatic, meaning that at most 70% of the protons are present as aromatic hydrogen atoms and, if oxygen atoms are present in ester functions, the atomic ratio of the oxygen atoms present in ester functions relative to the number of sulphur atoms in the polymer is less than 1.0. The polymer may be used to produce a shaped article.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. C08G75/02 C08G75/04 C08L81/02
ADD.

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)
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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)

EPO-Internal, CHEM ABS Data, 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	GONZALEZ-PAZ R.J. ET AL: "A Green Approach Toward Oleic and Undecylenic Acid-Derived Polyurethanes.", JOURNAL OF POLYMER SCI. PART A : POLYMER CHEM., vol. 49, no. 11, 8 April 2011 (2011-04-08), pages 2407-2416, XP002659436, abstract page 2411 tables 1,2	6-9,11, 13-18
X	US 3 046 134 A (DANN JOHN R ET AL) 24 July 1962 (1962-07-24) claims 1,3,5 example 2 column 2, line 45 - line 48 ----- -/--	6,7,11, 12



Further documents are listed in the continuation of Box C.



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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.
A	US 3 954 723 A (OSWALD ALEXIS A) 4 May 1976 (1976-05-04) claim 4 example 12 column 8, line 50 - line 55 -----	1-18
A	DESPER J.M. ET AL: "Molecular structure and conformation of two acyclic polythioethers: implications for the design of heavy metal chelators", J. AMER. CHEM. SOC., vol. 112, no. 11, 1990, pages 4321-4324, XP002659437, Structures 1 and 2; page 4321 -----	1-18
A	DE 199 36 549 A1 (WEBER NIKOLAUS [DE]; KLEIN ERIKA [DE]; MUKHERJEE KUMAR D [DE]; VOSMANN) 2 March 2000 (2000-03-02) example 1 -----	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

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