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(54) Title: POLYETHERS, METHODS OF MAKING SAME, AND USES THEREOF

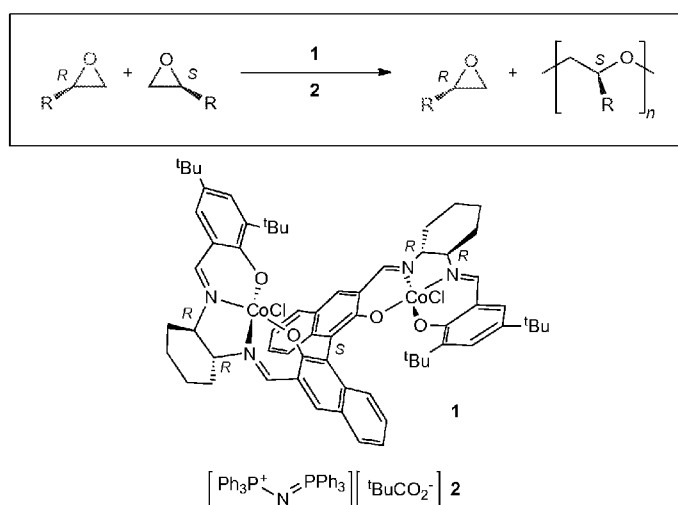


Figure 1

(57) Abstract: Isotactic polyethers, methods of making polyethers, and uses of polyethers. The polyethers have a chain transfer group formed from a chain transfer agent. The methods of making the polyethers use monoalcohol chain transfer agents or multi-functional chain transfer agents. The polyethers can be used in materials, such as polyurethanes, elastomers, thermoset plastics, and thermoplastics, and as non-ionic surfactants.



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A. CLASSIFICATION OF SUBJECT MATTER*C08G 65/08(2006.01)i, C08G 65/10(2006.01)i, C08L 71/02(2006.01)i, C08L 75/04(2006.01)i, C08G 18/48(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)

C08G 65/08; C08G 64/02; C07F 15/06; C07F 15/04; C08G 64/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: chain transfer, isotactic polyether, epoxide, cobalt catalyst, cocatalyst

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2010-028362 A1 (NOVOMER, INC. et al.) 11 March 2010 See abstract, claims 1-28	1-18
A	WO 2008-024363 A2 (CORNELL RESEARCH FOUNDATION INC.) 28 February 2008 See abstract, claims 1-16	1-18
A	WIDGER, PETER C. B. et al., "Isospecific polymerization of racemic epoxides: a catalyst system for the synthesis of highly isotactic polyethers", Chemical Communication, Vol.46, pages 2935-2937 22 March 2010 See p.2935, left column, lines 13-18 ; scheme 1	1-18
A	THOMAS, RENEE M. et al., "Enantioselective Epoxide Polymerization Using a Bimetallic Cobalt Catalyst", Journal of the American Chemical Society, Vol.132, pages 16520-16525 02 November 2010 See introduction p.16520-16521, figure 2.	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

Date of the actual completion of the international search

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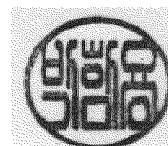
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Information on patent family members

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