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(54) Title: METHODS FOR CONTROLLING DEPOLYMERIZATION OF POLYMER COMPOSITIONS

(57) Abstract: A method of controlling or arresting the rate of depolymerization of a polymer composition during a biocide treatment, and use of such methods in oilfield and industrial applications. Also disclosed are methods of preparing a visco-stable application fluid containing a biocide in an amount effective to reduce bacteria count, as well as additive compositions capable of reducing bacteria count in application fluids while maintaining viscosity in such fluids. Also disclosed are methods of preparing biocide-containing application fluids with improved friction reducing properties, as well as related compositions.



A. CLASSIFICATION OF SUBJECT MATTER*C07F 9/28(2006.01)i, C07C 233/00(2006.01)i, A01N 57/00(2006.01)i, A01P 1/00(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)

C07F 9/28; A01N 59/24; A01N 57/20; C09K 8/68; C07H 1/00; C02F 5/10; C09K 8/62; C09K 8/588

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: depolymerization rate control, viscosity stabilization, biocide, depolymerization inhibitor

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	US 2012-0034313 A1 (WRANGHAM, J. B. et al.) 09 February 2012 See abstract, claims.	27-42
A	US 2010-0204068 A1 (KESAVAN, S. et al.) 12 August 2010 See the whole document.	1-42
A	US 2006-0180789 A1 (JONES, C. R. et al.) 17 August 2006 See the whole document.	1-42
A	US 2011-0071058 A1 (HOWARD, P. R. et al.) 24 March 2011 See the whole document.	1-42
A	US 2010-0190666 A1 (ALI, S. et al.) 29 July 2010 See the whole document.	1-42



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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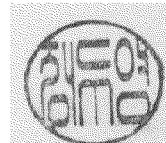
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2012-0034313 A1	09.02.2012	None	
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