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(54) Title: WATER-BASED DISPERSIONS OF HIGHLY-BRANCHED POLYMERS

(57) Abstract: The present invention provides aqueous dispersions of highly-branched polymers for coating applications and methods for making the polymers. The polymers may have high molecular weights and desirably take the form of microgels. The polymers and dispersions may be formulated with functionalities, viscosities, and solids contents that make them well-suited for use in a variety of coatings including, but not limited to, 2-pack coatings, ultraviolet (UV) curable coatings, inks, and air-dry coatings.



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A. CLASSIFICATION OF SUBJECT MATTER*C08J 3/03(2006.01)i, C08K 3/20(2006.01)i, C08L 63/02(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)

IPC: C08J, C08G

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)

eKIPASS(KIPO internal)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0684294 B (THE GLIDDEN COMPANY) 04 August 1999 See the whole document.	1-27
A	US 5756596 A (RUDOLF PFAENDNER et al.) 26 May 1998 See the whole document.	1-27
A	US 6541600 B (JIN-SHAN WANG et al.) 01 April 2003 See the whole document.	1-27
A	KR 10-2001-0086434 A (EPOX LTD.) 12 September 2001 See the whole document.	1-27
A	KR 10-2004-0024841 A (BAYER AKTIENGESELLSCHAFT) 22 March 2004 See the whole document.	1-27



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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