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(54) Title: AQUEOUS SYSTEMS CONTAINING ADDITIVE PRE-MIXES AND PROCESSES FOR FORMING THE SAME

(57) Abstract: The present invention relates to an additive for pigmented aqueous systems comprising a mixture of a cationic polymer and a high surface area anionic inorganic particle, methods for making and using the additive, methods of forming an aqueous paper coating color as well as cellulose matrix coated therewith; and a process for preparing stabilized pre-mixes.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/13506

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C08J 5/10
US CL : 524/445,447,492,493,555,560,566,612; 523/122
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)
U.S. : 524/445,447,492,493,555,560,566,612; 523/122

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)
USPAT, US-PGPUB, USOCR, EPO, JPO, DERWENT, IBM_TDB

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 4,913,775 A (Langley et al.) 3 April 1990 (03.04.1990), column 6, lines 60-62, column 5, lines 50-60, column 8, lines 32-68, column 9, lines 1-15, column 10, lines 3-7, column 11, lines 3-8, column 12, lines 19-29, column 14, line 18.	1, 7-34, 39-41, 43, 45-66, and 78-100 --- 20, 51, 78, 85, and 111
X	US 6,359,040 B1 (Burdick) 19 March 2002 (19.03.2002), column 1, lines 23-27, column 2, line 17, column 4, lines 41-67, column 5, lines 1-6, column 5, lines 44-50, column 6, lines 5-9, column 8, lines 20-52, column 10, lines 39-67, column 11, lines 1-2, column 11, lines 66-67, column 12, lines 1-60, column 14, lines65-68, column 15, line 1, column 22, lines 5-20, column 24, lines 5-15.	1, 7-19, 42-50, 66-84, and 100-110
X	WO 01/63049 A2 (ENGELHARD CORP.) 30 August 2001 (30.08.2001), page 1, lines 1-16, page 4, lines 24-32, page 5, lines 1-20, page 11, lines 15-25.	1-9, 13-19, 25, 29-31, 35-38, 43, 45-50, 56, 60-62, 78-84, 90, and 94-96
Y	US 4,305,781 A (Langley et al.) 15 December 1981 (15.12.1981), column 2, lines 32-68, column 3, lines 1-7.	20, 51, and 85
Y	US 4,738,726 A (Pratt et al.) 19 April 1988 (19.04.1988), abstract, column 10, lines 50-56.	78 and 111

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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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 5,194,120 A (Peats et al.) 16 March 1993 (16.03.1993)	
A	US 6,150,289 A (Chen et al.) 21 November 2000 (21.11.2000)	
A	US 6,358,365 B1 (Zhang et al.) 19 March 2002 (19.03.2002)	