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(54) Title: CEMENT COMPOSITIONS COMPRISING HUMIC ACID GRAFTED FLUID LOSS CONTROL ADDITIVES AND METHODS OF USING THEM

(57) Abstract: A cement composition comprising water, a cement, and a fluid loss control additive, the fluid loss control additive comprising a graft copolymer. The graft copolymer comprises a backbone and at least four grafted monomers selected from the group consisting of 2-acrylamido-2-methylpropanesulfonic acid, acrylamide, acrylic acid, vinylphosphonic acid, diallyldimethylammonium chloride, and salts thereof. The backbone of the graft copolymer comprises a humic acid salt. The cement compositions may be used in cementing operations.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C09K8/487 C04B28/02 C04B24/28

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)
C09K C04B

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 practical, 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	US 4 938 803 A (HUDDLESTON DAVID A [US] ET AL) 3 July 1990 (1990-07-03) claims 1,2,14,16; examples ICZ, 6,8,9,10)	1-8, 11-15, 17,18, 20-28, 30, 32-36, 39,40
X	EP 0 072 445 A (BW MUD LTD [GB]) 23 February 1983 (1983-02-23) claims; examples	1-8, 11-15, 17,18, 20-28, 30, " 32-36, 39,40

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X Further documents are listed in the continuation of Box C.

X See patent family annex

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Date of the actual completion of the international search	Date of mailing of the international search report
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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.
X	US 4 676 317 A (FRY SLATON E [US] ET AL) 30 June 1987 (1987-06-30) cited in the application claims 1,18	1-8, 11-15, 17,18, 20-28, 30, 32-36, 39,40

INTERNATIONAL SEARCH REPORT

Information on patent family members

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