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(54) Title: GRAVEL-PACKING CARRIER FLUID WITH INTERNAL BREAKER

(57) Abstract: A method of gravel packing a hole in a subterranean formation having a filter cake coated on the surface thereof that includes injecting into the hole a gravel pack composition comprising gravel and a carrier fluid comprising a base fluid and at least one iminodiacetic acid or salt thereof is disclosed.



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A. CLASSIFICATION OF SUBJECT MATTER*E21B 43/04(2006.01)i, E21B 33/13(2006.01)i, C09K 8/04(2006.01)i, C09K 17/00(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)

IPC: E21B, C09K, C23G, A47B, C11D

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS (KIPO internal), "Keywords: iminodiacetic acid, salt, filter cake, emulsifier"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6436880 B1 (WAYNE W. FRENIER) 20 August 2002 see abstract; column 1 lines 40-67, column 2 lines 1-6, column 3 lines 66-67, columns 4-6, column 7 lines 1-38; claims 28-39	1-11, 14-18, 21, 22
Y		12, 13, 19, 20, 23, 24
Y	US 6562764 B1 (R. ASHLEY DONALDSON et al.) 13 May 2003 see abstract; column 2 lines 34-67, column 3 lines 1-64; claims 1-3	12, 19, 20, 23, 24
Y	US 6218342 B1 (AVIND D. PATEL) 17 April 2001 see abstract; column 6 lines 23-67, columns 7, 8, column 9 lines 1-14	13
X	US 5972868 A (PHILLIP S. ATHEY et al.) 26 October 1999 see abstract; column 1 lines 23-33, column 3 lines 55-67, column 4, column 5 lines 1-22, column 9 lines 41-67, column 10 lines 1-18; claims 1-16	1-8, 15, 16, 21

 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 2005-0061504 A1 (KEITH A. FROST et al.) 24 March 2005 see abstract; paragraphs [0016]-[0033]; claims 1-12	1-24
A	US 5051212 A (STEPHEN CULSHAW et al.) 24 September 1991 see abstract; column 1 lines 34-67, column 2 lines 1-45; claims 1-10	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

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