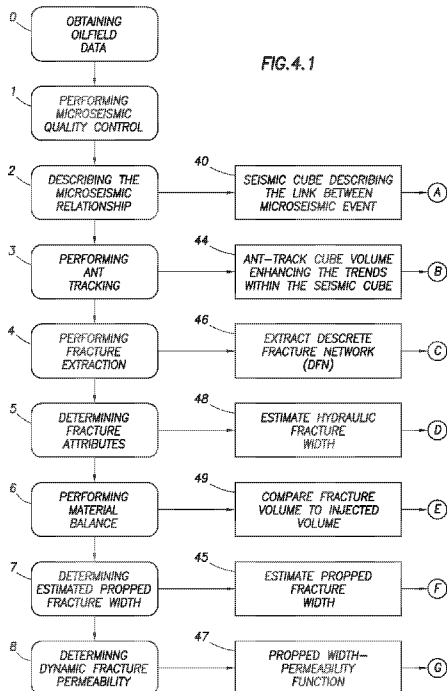




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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR PERFORMING MICROSEISMIC FRACTURE OPERATIONS



(57) Abstract: A system and method of performing a microseismic fracture operation for a wellsite having a subterranean formation with a complex fracture network therein are provided. The method involves describing a relationship between microseismic events to determine the complex fracture network of the subterranean formation, generating a fault volume by extracting faults from the fracture network based on the relationship between the microseismic events, generating a discrete fracture network comprising discrete fractures from the complex fracture network by extracting fracture planes from the obtained fault volume, and simulating fracture geometry and proppant placement.

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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eKOMPASS(KIPO internal) &amp; Keywords: fracture, attribute, correlation, wellsite, parameter, volume, network, seismic and similar terms.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6947843 B2 (FISHER, A. et al.) 20 September 2005 See the whole document.	1-32
A	US 2010-0262372 A1 (LE CALVEZ, J. H. & TAYLOR, S. T.) 14 October 2010 See the whole document.	1-32
A	US 2009-0093965 A1 (GODFREY, R. et al.) 09 April 2009 See the whole document.	1-32
A	US 7663970 B2 (DUNCAN, P. M. et al.) 16 February 2010 See the whole document.	1-32

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

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