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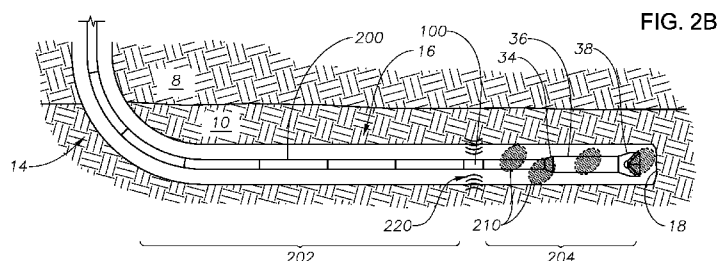
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(54) **Title:** WIRELESS DRILL STRING DISCONNECT



(57) **Abstract:** A disconnecter drill string 200 has an uphole section 202 and a downhole section 204 coupled together by a disconnection sub 100, an operative length and an internal fluid conduit that extends along its operative length. The disconnection sub 100 is operable to receive wirelessly a pre-designated command signal 220, to selectively couple the uphole section 202 and the downhole section 204 together, and to selectively uncouple the uphole section 202 and the downhole section 204 from one another. A method for using the disconnecter drill string 200 in a well bore includes the steps of introducing the disconnecter drill string 200 into the well bore, transmitting wirelessly the pre-designated command signal 220 to the disconnection sub 100 such that the disconnection sub 100 selectively operates to uncouple the uphole section 202 of the disconnecter drill string 200 from the downhole section 204 of the disconnecter drill string, and removing the uphole section 202 of the disconnecter drill string from the well bore.



INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. E21B17/06
ADD.

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)
E21B

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)

EP0-Internal, 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 2008/041597 A1 (FISHER JERRY W [US] ET AL) 21 February 2008 (2008-02-21) paragraphs [0028], [0029], [0030], [0031], [0050], [0051], [0052], [0056], [0063], [0064]; figures 1-4,10 -----	1-25
X	US 2011/226482 A1 (TREWHELLA ROSS JOHN [US] ET AL) 22 September 2011 (2011-09-22) paragraphs [0025], [0027] - [0029], [0031], [0032]; figures 1-3B -----	1-25
X	US 2011/088903 A1 (ONADEKO OLUGBENGA ADEBOLA [US] ET AL) 21 April 2011 (2011-04-21) paragraphs [0033], [0034] ----- -/--	1



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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.
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A	US 2004/069496 A1 (HOSIE DAVID [US] ET AL) 15 April 2004 (2004-04-15) paragraphs [0072], [0073] -----	1-25

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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