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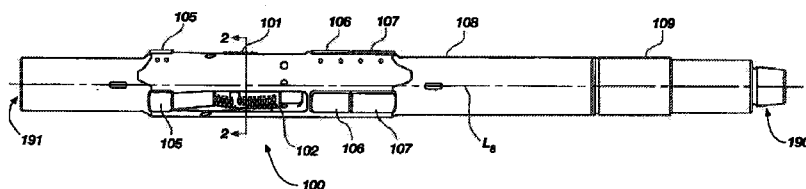


FIG. 1

(57) Abstract: An expandable reamer apparatus for drilling a subterranean formation may include a tubular body, one or more blades, each blade positionally coupled to a sloped track of the tubular body, a push sleeve and a drilling fluid flow path extending through an inner bore of the tubular body for conducting drilling fluid therethrough. Each of the one or more blades may be configured to ream a subterranean formation. The push sleeve may be disposed in the inner bore of the tubular body and coupled to each of the one or more blades so as effect axial movement thereof along the track to an extended position responsive to exposure to a force or pressure of drilling fluid in the flow path of the inner bore. Each blade may include one or more roller elements for reaming a wellbore.



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**A. CLASSIFICATION OF SUBJECT MATTER***E21B 10/08(2006.01)i, E21B 10/32(2006.01)i, E21B 10/62(2006.01)i, E21B 7/28(2006.01)i*

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: reamer, drill, push, tubular, track, blade

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0017419 A1 (CRAIG COOLEY et al.) 24 January 2008 see paragraph 84 - paragraph 123 and figures 2.	1-47
A	US 2001-0045304 A1 (ANTHONY MOLLOY) 29 November 2001 see paragraph 48 - paragraph 107 and figures 2.	1-47
A	US 2008-0245576 A1 (LIANG DAH-BEN et al.) 09 October 2008 See paragraph 32 - paragraph 51 and figures 13.	1-47

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

\* Special categories of cited documents:

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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