



- (51) International Patent Classification:
E21B 33/127 (2006.01) E21B 33/128 (2006.01)
- (21) International Application Number:
PCT/US2012/040719
- (22) International Filing Date:
4 June 2012 (04.06.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/152,346 3 June 2011 (03.06.2011) US
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SEALING DEVICES FOR SEALING INNER WALL SURFACES OF A WELLBORE AND METHODS OF INSTALLING SAME IN A WELLBORE

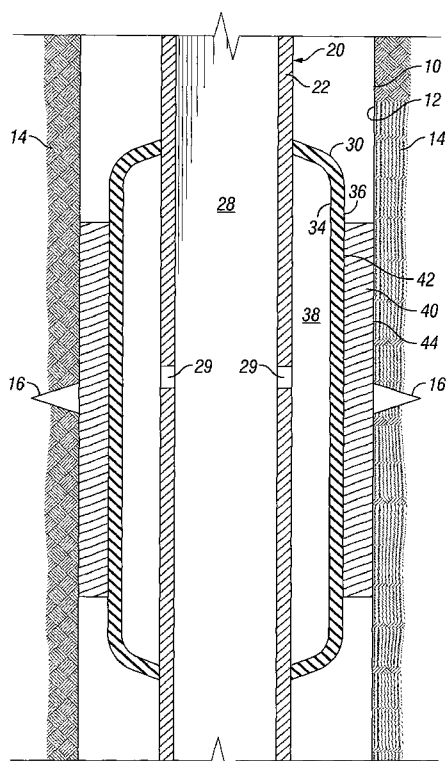


FIG. 2

(57) Abstract: Sealing devices for use in a wellbore to seal a leak path through an inner wall surface of the wellbore comprise a mandrel, an expandable element, and a shape deforming sealing element. Expansion or inflation of the expandable element moves the shape deforming sealing element from its run-in shape to its set shape. A stimulus, such as a change in temperature, acts upon the shape deforming sealing element facilitating the shape deforming sealing element changing shape. Removal of the stimulus causes the shape deforming sealing element to remain in the set shape. Thereafter, the mandrel and expandable element can be removed to leave only the shape deforming sealing element within the wellbore to seal the leak path.





Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
28 February 2013

Published:

- *with international search report (Art. 21(3))*

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/040719**A. CLASSIFICATION OF SUBJECT MATTER****E21B 33/127(2006.01)i, E21B 33/128(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)

E21B 33/127; E21B 33/10; E21B 33/12; E21B 23/00; F16L 55/18

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) & Keywords: expandable element, shape deforming sealing element, tubular

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2003-0196820 A1 (DINESH, R. PATEL) 23 October 2003 See paragraphs [0025], [0028], [0036], and figures 1, 4.	1-7, 10-13, 15 8, 9, 14, 16-20
Y A	US 2010-0006303 A1 (GARCIA, JEAN-LUC et al.) 14 January 2010 See abstract, paragraphs [0018]-[0022], and figure 1.	1-7, 10-13, 15 8, 9, 14, 16-20
A	US 2010-0058828 A1 (HALLUNDBAEK, JORGEN) 11 March 2010 See abstract, paragraphs [0044]-[0052], and figures 1-3.	1-20
A	US 2004-0173363 A1 (JUAN, NAVARRO-SORROCHE) 09 September 2004 See abstract, paragraph [0015], and figure 3.	1-20

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

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search

29 NOVEMBER 2012 (29.11.2012)

Date of mailing of the international search report

03 JANUARY 2013 (03.01.2013)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/040719

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