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 27 November 2013 (27.11.2013)</p> | <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.</p> |
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| <p>(71) Applicant: VETCO GRAY INC [US/US]; 4424 West Sam Houston Pkwy, Houston, TX 77041 (US).</p> | |
| <p>(72) Inventors: LOFTIN, Christopher; 12221 N. Houston Rosslyn Road, PO Box 2291, Houston, TX 77086-3216 (US). FORD, David, L.; 12221 N. Houston Rosslyn Road, PO Box 2291, Houston, TX 77086-3216 (US). BENSON, Daniel, C.; 12221 N. Houston Rosslyn Road, PO Box 2291, Houston, TX 77086-3216 (US). STEEN, Thomas,</p> | <p>(84) Designated States (<i>unless otherwise indicated, for every kind of regional protection available</i>): 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,</p> |

[Continued on next page]

- (54) Title:** RATCHETING ANTI-ROTATION LOCK FOR THREADED CONNECTORS

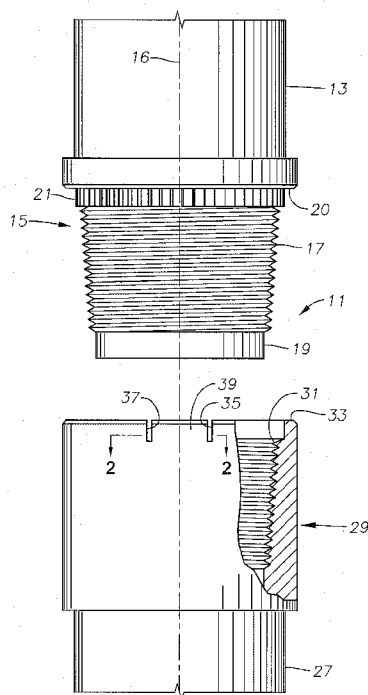


FIG. 1

(57) Abstract: A pipe connection includes a pin having external threads and a box having internal threads. A circumferentially extending row of pin teeth are located on an exterior portion of the pin. A slot extends through a side wall of the box. A key is carried in the slot, the key having a row of key teeth that mate with the box teeth. The key is mounted to the box such that a movable portion of the key is radially movable relative to the box between radially outward and radially inward positions. The key is biased toward the inward position, so that the key teeth ratchet on the pin teeth during make-up of pin and the box. The teeth have a saw-tooth configuration to resist unscrewing rotation of pin and the box. The key may be an integral part of the side wall of the box or a separate component.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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 F16L

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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 534 916 A (EDGAR CAMPBELL EARL) 21 April 1925 (1925-04-21) page 1, line 59 - page 2, line 4; figures 1-3	1-20
A	----- US 1 717 186 A (CARGLE BENJAMIN F) 11 June 1929 (1929-06-11) claim 2; figures 1-3 -----	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

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"&" document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Strømmen, Henrik

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 1534916	A	21-04-1925	NONE	

US 1717186	A	11-06-1929	NONE	
