

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 February 2007 (08.02.2007)

PCT

(10) International Publication Number
WO 2007/015976 A3

(51) International Patent Classification:
F16B 37/04 (2006.01)

(21) International Application Number:
PCT/US2006/028462

(22) International Filing Date: 21 July 2006 (21.07.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/189,502 26 July 2005 (26.07.2005) US

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AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

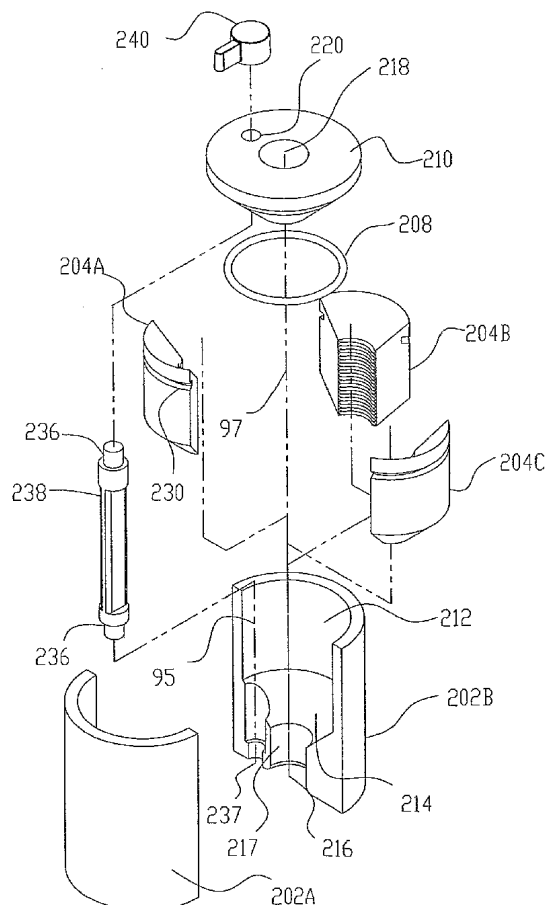
Published:

— with international search report

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

(88) Date of publication of the international search report:
2 April 2009

(54) Title: **THREADED COUPLING MECHANISM HAVING QUICK ENGAGING AND DISENGAGING FEATURE**



(57) Abstract: A bolt coupling device which has a body with a chamber, an inlet and an outlet. The coupling device includes a coupling mechanism. The coupling mechanism includes a threaded surface along a bolt receiving channel. The coupling device includes a spring member that urges the threaded surfaces toward a first axis, and a cam member between two coupling segments which is rotatable. The cam member separates the first and second coupling segments to increase the dimension of the bolt receiving channel to selectively engage and disengage a bolt. The cam member can be positioned along a second axis which is parallel to the first axis or perpendicular to the first axis.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/28462

A. CLASSIFICATION OF SUBJECT MATTER

IPC: F16B 37/04(2006.01)

USPC: 411/433,237

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)

U.S. : Please See Continuation Sheet

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,531,872 (Warkotsh) 30 July 1985 (30.07.1985), whole document.	1-2, 4-10, 12-19
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Y		3, 11, 20

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

* Special categories of cited documents:

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"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
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

09 June 2008 (09.06.2008)

Date of mailing of the international search report

30 JUN 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
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 Alexandria, Virginia 22313-1450

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/28462

Continuation of B. FIELDS SEARCHED Item 1:

411/433,237,437,267,265-270

285/323,34,309-310

24/503-504