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- (71) Applicant (for all designated States except US): **SMITH & NEPHEW, INC.** [US/US]; 1450 Brooks Road, Memphis, Tennessee 38116 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JANNA, Sied W.** [US/US]; 2365 N. Strathmore, Memphis, Tennessee 38112 (US). **FABER, Henry B.** [US/US]; 1549 Massey Pointe Lane, Memphis, Tennessee 38120 (US). **RITCHEY, Nicholas S.** [US/US]; 285 Cedar Post Drive, Collierville, Tennessee 38017 (US).
- (74) Agents: **RIFFE, Timothy W.** et al.; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).
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[Continued on next page]

(54) Title: FIBER-REINFORCED COMPOSITE ORTHOPAEDIC DEVICE

(57) Abstract: An orthopaedic fixation device including an inner core and a shaft, one of the inner core and the shaft being formed of biocompatible plastic and the other of the inner core and the shaft being formed of metal, the plastic inner core or plastic shaft forming a load-bearing, structural element of the fixation device.

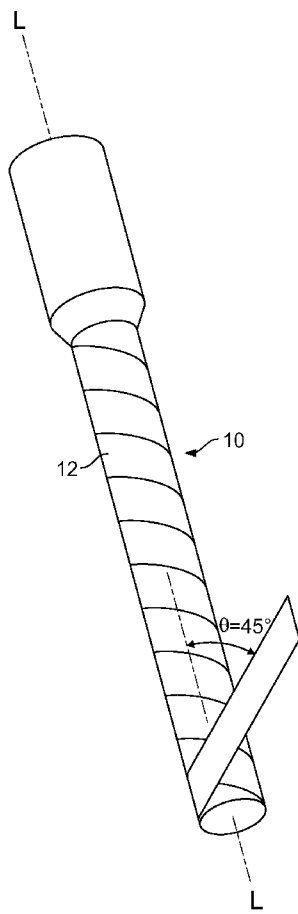


FIG. 1



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.

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- 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))

**Published:**

- with international search report (Art. 21(3))
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4 April 2013

**A. CLASSIFICATION OF SUBJECT MATTER***A61F 5/01(2006.01)i, A61F 5/05(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)

A61F 5/01; A61F 2/28; A61F 2/02; A61F 2/34; A61F 2/44; B05D 1/38; A61F 2/32

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: orthopaedic, biocompatible, core.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 05571202A A (MATHYS, SR.; ROBERT et al.) 05 November 1996 See figure 3; column 2, lines 22-31, 54-60.	1,7-9,15 2-6,10,13,14 11,12
Y A	US 2010-0016985 A1 (RABIEI AFSANEH) 21 January 2010 See paragraphs [0024], [0030], [0058].	2-4,10 1,5-9,11-15
Y A	US 2004-0010313 A1 (ROGER ASTON et al.) 15 January 2004 See abstract, paragraph[0067], [0149].	5,6 1-4,7-15
Y A	US 2008-0133022 A1 (CAYLOR EDWARD J.) 05 June 2008 See abstract, claims 3, 10.	13,14 1-12,15

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

\* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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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

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

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189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan  
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Authorized officer

Son Yeon Mi

Telephone No. 82-42-481-3350



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2012/046694**

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