

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 March 2011 (10.03.2011)

(10) International Publication Number  
**WO 2011/029097 A3**

(51) International Patent Classification:

A61N 1/375 (2006.01) A61N 1/05 (2006.01)  
A61N 1/372 (2006.01)

(21) International Application Number:

PCT/US2010/048000

(22) International Filing Date:

7 September 2010 (07.09.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/240,157 4 September 2009 (04.09.2009) 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, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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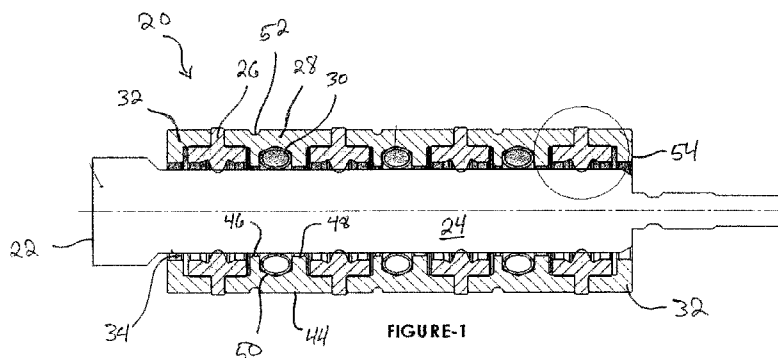
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))
- 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:  
21 July 2011

(54) Title: CONNECTOR ASSEMBLIES FOR USE WITH IMPLANTABLE MEDICAL DEVICES



(57) Abstract: Connector assemblies for use to concurrently transmit multiple signals or sources. The connector assemblies are generally formed by coupling a plurality of ring contacts, sealing rings, and spring contact elements together with at least one holding ring to form a connector having a common bore for receiving a lead cable. Contact grooves or spring chambers for positioning the spring contact elements are formed in part by assembling multiple components together. The connector assemblies may be used in a number of industries and applications.



WO 2011/029097 A3

## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2010/048000****A. CLASSIFICATION OF SUBJECT MATTER***A61N 1/375(2006.01)i, A61N 1/372(2006.01)i, A61N 1/05(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)

A61N 1/375; F16J 15/02; B23P 11/00

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: connector, assembly, ring, spring, seal, interlock, groove, protrude, implant, stimulation

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| X         | US 2008-0246231 A1 (ROBBIE J. SJOSTEDT et al.) 09 October 2008<br>See claims 1, 26, paragraphs [0087], [0088], figures 1, 7, 10-21 | 1-20                  |
| X         | US 6895276 B2 (JOHN E. KAST et al.) 17 May 2005<br>See claim 1, column 7, line 64 - column 9, line 4, figures 3 and 5              | 1-20                  |
| A         | US 4934366 A (BUEHL E. TRUEX et al.) 19 June 1990<br>See claim 1, abstract, figure 6A  | 1-20                  |
| A         | US 6430442 B1 (CHARLES E. PETERS et al.) 06 August 2002<br>See claim 1, abstract, figure 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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"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

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

Date of the actual completion of the international search

30 MAY 2011 (30.05.2011)

Date of mailing of the international search report

**30 MAY 2011 (30.05.2011)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
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Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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Telephone No. 82-42-481-8303



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2010/048000**

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