

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 March 2009 (26.03.2009)

PCT

(10) International Publication Number
WO 2009/039205 A1

(51) International Patent Classification:
H01R 43/00 (2006.01)

(21) International Application Number:
PCT/US2008/076720

(22) International Filing Date:
17 September 2008 (17.09.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/973,370 18 September 2007 (18.09.2007) US
61/080,607 14 July 2008 (14.07.2008) US
12/206,659 8 September 2008 (08.09.2008) US

(71) Applicant (for all designated States except US):
DELAWARE CAPITAL FORMATION, INC. [US/US];
501 Silverside Road, Suite 5, Wilmington, DE 19809 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JOHNSTON, Charles, J.** [US/US]; 3422 Hawthorn Avenue, Chino Hills, CA 91709 (US). **CHABINEAU, Scott** [US/US]; 270 Garfield Avenue, Pomona, CA 91767 (US). **TREIBERGS, Valts** [US/US]; 5104 Mead Road, White Bear Township, MN 55110 (US). **YAKUSHEV, Sergey** [US/US]; 14583 64th Avenue North, Maple Grove, MN 55311 (US). **SWART, Mark** [US/US]; 18812 Ridgeview Dr., Villa Park, CA 92861 (US). **KOTTMEYER, Edward, A.** [US/US]; 4780 Centerville Road, Apt. 205, Saint Paul, MN 55127 (US).

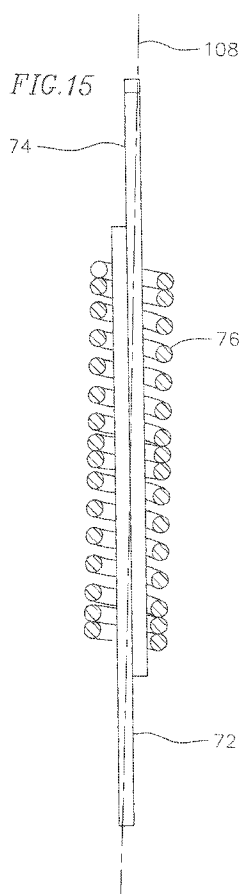
(74) Agent: **LAMPERT, Gregory, S.**; Christie, Parker & Hale, LLP, P.O. Box 7068, Pasadena, CA 91109-7068 (US).

(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, 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,

[Continued on next page]

(54) Title: SPRING CONTACT ASSEMBY

(57) Abstract: A spring contact assembly having a first plunger with a tail portion having a flat contact surface and a second plunger having a tail portion with a flat contact surface wherein the flat contact surfaces are overlapping and are surrounded by an external compression spring such that the sliding engagement of the flat surfaces increases during compression of the spring.





LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(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,

Published:

— *with international search report*