

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
30 December 2009 (30.12.2009)

PCT

(10) International Publication Number  
WO 2009/158133 A8

- (51) International Patent Classification:  
A61M 1/00 (2006.01) A61F 13/00 (2006.01)
- (21) International Application Number:  
PCT/US2009/045755
- (22) International Filing Date:  
29 May 2009 (29.05.2009)
- (25) Filing Language:  
English
- (26) Publication Language:  
English
- (30) Priority Data:
 

61/057,797	30 May 2008 (30.05.2008)	US
61/057,810	30 May 2008 (30.05.2008)	US
61/057,805	30 May 2008 (30.05.2008)	US
61/057,798	30 May 2008 (30.05.2008)	US
61/057,807	30 May 2008 (30.05.2008)	US
61/057,802	30 May 2008 (30.05.2008)	US
61/057,800	30 May 2008 (30.05.2008)	US
61/057,808	30 May 2008 (30.05.2008)	US
61/057,803	30 May 2008 (30.05.2008)	US
61/121,362	10 December 2008 (10.12.2008)	US
61/144,067	12 January 2009 (12.01.2009)	US

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CAVANAUGH II, Matthew, Francis [US/US]; 18822 Avignon Dr., San Antonio, TX 78258 (US). LONG, Justin, Alexander [US/US]; 6335 Mustang Point Dr., San Antonio, TX 78240 (US). KAZALA, Richard, Marvin, Jr. [US/US]; 16331 Persimmon Well, San Antonio, TX 78247 (US). BARTA, Eric, Woodson [US/US]; 14003 Cedar Mill, San Antonio, TX 78231 (US).

- (74) Agents: WELCH, Gerald, T. et al.; Sonnenschein, Nath & Rosenthal LLP, P.O. Box 061080, Wacker Drive Station, Sears Tower, Chicago, IL 60606 (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, 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.

- (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,

[Continued on next page]

(54) Title: REDUCED-PRESSURE, COMPRESSION SYSTEMS AND APPARATUSES FOR USE ON JOINTS

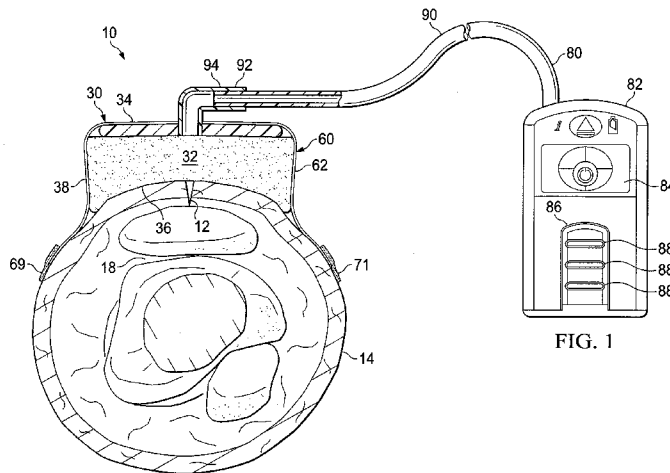
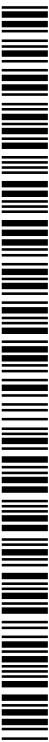


FIG. 1

(57) Abstract: A system (10) for providing reduced-pressure treatment to a movable tissue site, such as a joint, includes a flexible dressing bolster (32). The flexible dressing bolster has a first side (34) and a second, inward-facing side (36), and a plurality of flexion joints formed on the flexible dressing bolster. The system further includes a sealing subsystem (60) for providing a fluid seal over the flexible dressing bolster and the patient's epidermis and a reduced-pressure subsystem (80) for delivering a reduced pressure to the sealing subsystem. The sealing subsystem and reduced-pressure subsystem are operable to deliver a reduced pressure to the movable tissue site. The flexible dressing bolster is operable to allow articulation or movement of the movable tissue site. The sealing subsystem may include a drape with folds. Other systems, apparatuses, and methods are presented.



WO 2009/158133 A8



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, MK, 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).

**(88) Date of publication of the international search report:**  
29 April 2010

**(48) Date of publication of this corrected version:**  
3 February 2011

**Published:**

— *with international search report (Art. 21(3))*

**(15) Information about Correction:**  
see Notice of 3 February 2011