



(51) International Patent Classification:

A61F 2/38 (2006.01) A61B 17/56 (2006.01)
A61F 2/48 (2006.01) A61B 5/103 (2006.01)
A61F 2/46 (2006.01)

(21) International Application Number:

PCT/US2014/043736

(22) International Filing Date:

23 June 2014 (23.06.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/838,317 23 June 2013 (23.06.2013) US

(72) Inventor; and

(71) Applicant : HUNTER, William, L. [CA/CA]; 1450 Bi-
anca St., Vancouver, British Columbia V6R 4E2 (CA).

(74) Agents: PARKER, David, W. et al.; 14333 221st Ave NE,
Woodinville, WA 98077 (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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
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, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,

[Continued on next page]

(54) Title: DEVICES, SYSTEMS AND METHODS FOR MONITORING KNEE REPLACEMENTS

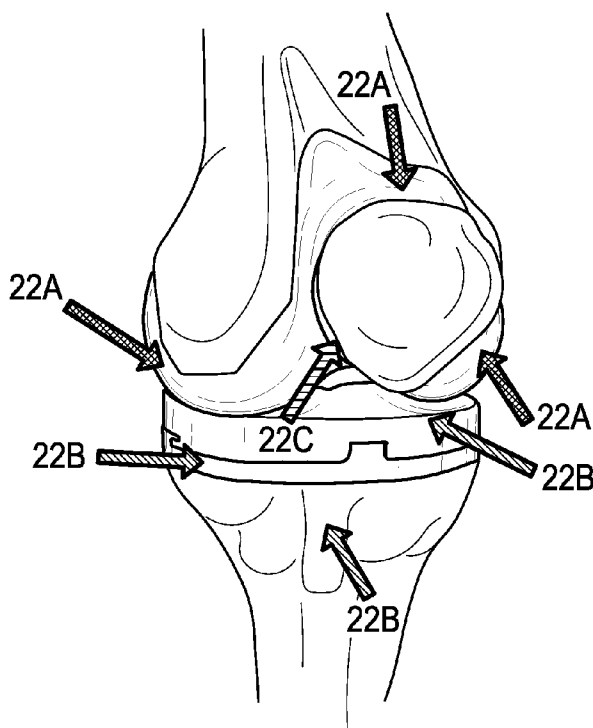


Fig. 5

(57) Abstract: Knee replacement prosthesis are provided,
comprising a plurality of sensors and at least one of a
femoral component, a patellar prosthesis and a tibial com-
ponent.



EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, **Published:**

LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,

SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

GW, KM, ML, MR, NE, SN, TD, TG).

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