

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 August 2009 (06.08.2009)

PCT

(10) International Publication Number
WO 2009/096899 A1

(51) International Patent Classification:

A61F 5/00 (2006.01) A61G 15/10 (2006.01)
A61G 7/075 (2006.01) A61G 13/12 (2006.01)

(74) Agent: LAWRENCE Y D HO & ASSOCIATES PTE LTD; 30 Bideford Road, #02-02, Thongsia Building, Singapore 229922 (SG).

(21) International Application Number:

PCT/SG2008/000038

(22) International Filing Date: 1 February 2008 (01.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US):
NANYANG POLYTECHNIC [SG/SG]; 180 Ang Mo Kio Avenue 8, Singapore 569830 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VIJAYA, Kumar, A/L, Ramulu [MY/MY]; 49, JLN Indah 17/3, Taman Bukit Indah, 81200 Johor Bahru (MY). WONG, Looi, Kian [MY/SG]; BLK 586, Choa Chu Kang Street 52, #09-166, Singapore 680568 (SG). TAN, Cheng Hoe [SG/SG]; BLK 406, Bukit Batok West Avenue 7, #14-34, Singapore 650406 (SG).

(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, 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, 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).

Published:

— with international search report

(54) Title: VARIABLE ANGLE LIMB SUPPORT

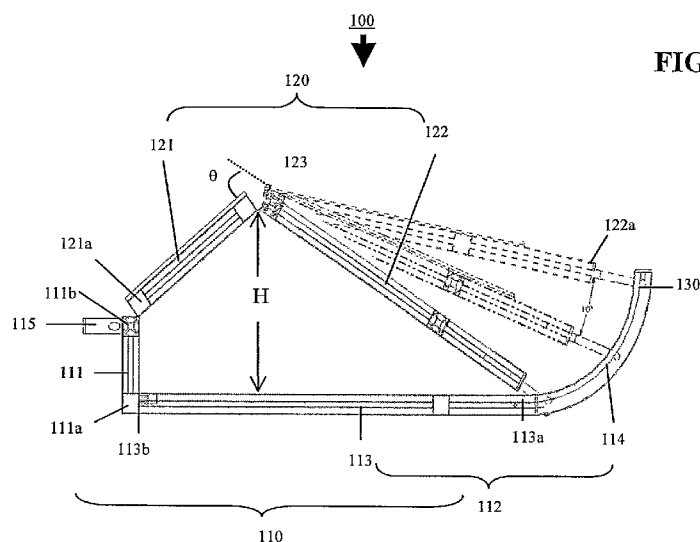


FIG. 3A

(57) Abstract: The present invention provides a limb support device (100, 200, 300, 500, 600) for supporting a limb at various flexion angles. The limb support device (100, 200, 300, 500, 600) comprises a base frame (110, 210, 510) disposed on a supporting surface, a pivoted structure (120, 220, 320, 520, 620) in an inverted V-shape mounted on the base frame for supporting the limb at various pivot angles, and adjustment means (130, 230, etc) for adjusting the pivot angle (θ) of the pivoted structure such that the height (H) from the apex of the pivoted structure to the supporting surface is maintained for different pivot angles. When the device (100, 200, 300, etc) is used to support a lower limb during radiographic projection of the patello-femoral joint, the relative position of the patello-femoral joint with respect to the supporting surface remains substantially unchanged during projections at various knee-flexion angles. Therefore, no adjustment is required to the height of the radioactive source.