



(51) International Patent Classification:

A61L 15/32 (2006.01) A61F 2/08 (2006.01)
A61L 27/58 (2006.01)

(21) International Application Number:

PCT/AU2015/000612

(22) International Filing Date:

12 October 2015 (12.10.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2014904054 10 October 2014 (10.10.2014) AU

(71) Applicant: ORTHOCELL LIMITED [AU/AU]; Building 191, Murdoch University, South Street, Murdoch, W.A. 6150 (AU).

(72) Inventor: ZHENG, Ming, Hao; 2 Kingsland Avenue, City Beach, W.A. 6015 (AU).

(74) Agent: GRIFFITH HACK; Level 19, 109 St George's Terrace, Perth, W.A. 6000 (AU).

(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, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: SUTURELESS REPAIR OF SOFT TISSUE

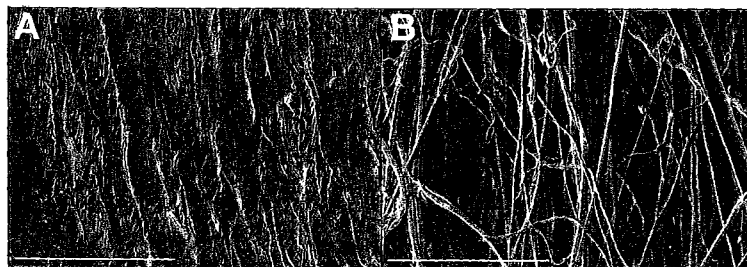


Figure 1

(57) Abstract: The present invention relates to a sutureless method of repairing soft tissue defects in soft tissue including ligaments such as anterior cruciate ligaments (ACLs). In particular, the present invention relates a sutureless method of repairing soft tissue defect comprising: (i) providing a collagen-containing patch adapted to enclose at least a portion of said soft tissue defect; (ii) contacting said soft tissue defect and/or collagen-containing patch with a sensitizer; (iii) enclosing said soft tissue defect in said collagen-containing patch to produce a bioactive chamber; and (iv) adhering said collagen-containing patch to said soft tissue defect without sutures.

