



(43) International Publication Date
21 August 2014 (21.08.2014)

- (51) **International Patent Classification:**
C12N 5/077 (2010.01) *A61K 35/36* (2006.01)
C12N 5/0775 (2010.01)
- (21) **International Application Number:**
PCT/US2014/016109
- (22) **International Filing Date:**
12 February 2014 (12.02.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/763,908 12 February 2013 (12.02.2013) US
- (71) **Applicant:** REPLICEL LIFE SCIENCES INC.
[CA/CA]; 2020-401 West Georgia Street, Vancouver, British Columbia V6B 5A1 (CA).
- (72) **Inventors:** HOFFMANN, Rolf; In den Eschmatten 24, 79117 Freiburg (DE). MCELWEE, Kevin, John; 2020-

401 West Georgia Street, Vancouver, British Columbia V6B 5A1 (CA).

- (74) **Agents:** PARKER, David, W. et al.; Kurious LLC, P.O. Box 2840, North Bend, Washington 98004 (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,

[Continued on next page]

(54) **Title:** COMPOSITIONS AND METHODS FOR TREATING AND REPAIRING TENDONS

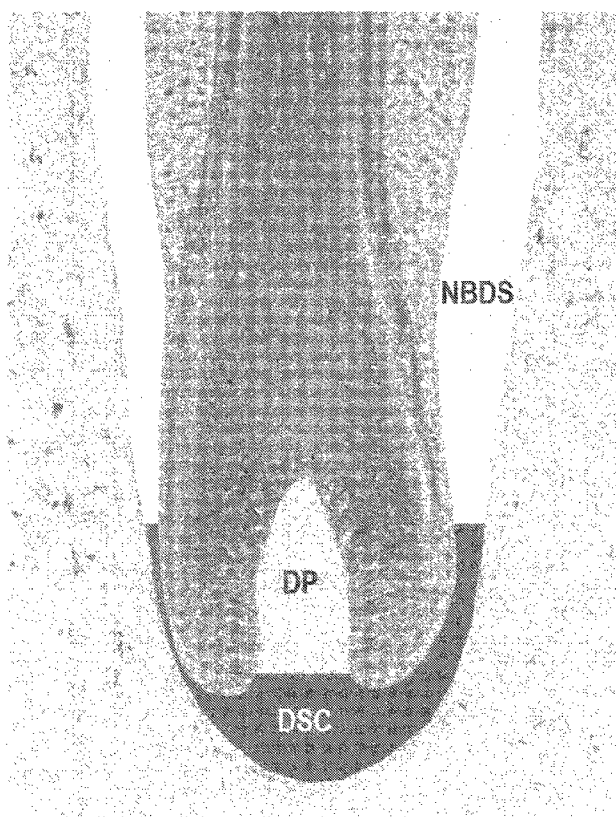


FIG. 2

(57) **Abstract:** The present invention relates to compositions and methods utilizing hair follicle derived Non-Bulbar Dermal Sheath cells for use in the treatment or prevention of the tendon injuries.



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).

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*