(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 October 2014 (09.10.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/164605 A1

(51) International Patent Classification:
A61B 17/04 (2006.01)

(21) International Application Number:
PCT/US2014/022973

(22) International Filing Date:
11 March 2014 (11.03.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/778,350 12 March 2013 (12.03.2013) US

(71) Applicant: **ZIPTEK LLC.** [US/US]; 1250 S. Tamiami Trail, Sarasota, FL 34239 (US).

(72) Inventors: **BENNETT, William, F.**; 1250 S. Tamiami Trail #303, Sarasota, FL 34239 (US). **GALAZ MENDEZ, Ramses**; Cda Barakaldo 59, Col. Banusresidencial, Hermosillo, Sonora, 83106 (MX). **GOMEZ ROMO, Daniel, Francisco**; Bayonne #6, Col. Banusresidencial, Hermosill, Sonora, 83106 (MX).

(74) Agents: **FRIJOUF, Robert, F.** et al.; Frijouf, Rust & Pyle, P.C., 201 East Davis Boulevard, Tampa, FL 33606 (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, 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).

Declarations under Rule 4.17:

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

— *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))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(54) **Title**: APPARATUS AND METHOD FOR SECURING TISSUE

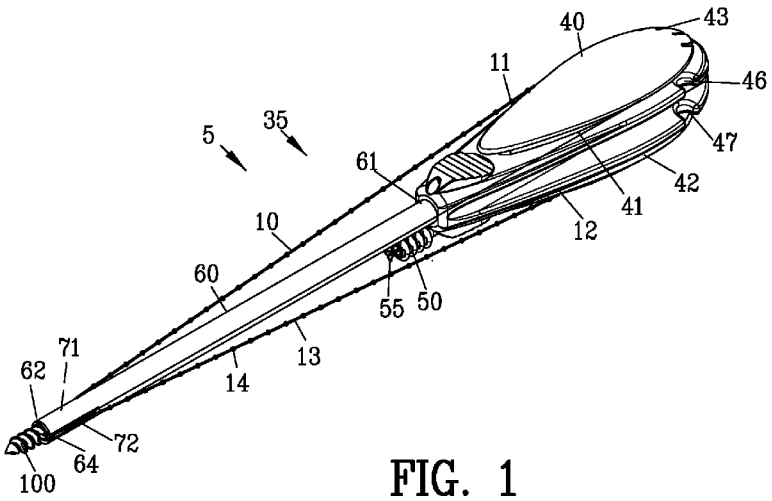


FIG. 1

(57) **Abstract**: An apparatus and method is disclosed for securing tissue to a bone comprising a novel screw anchor for insertion into a hone by a novel rotational driver. The screw anchor and rotation driver enables the screw to be completely embedded into the bone while permitting a suture to be threaded through a transverse aperture in the screw. The rotation driver facilitates insertion and engagement of a capture with one of a series of protuberance formed along a length of a suture. In addition, the method is disclosed of forming the series of protuberance.

WO 2014/164605 A1