

(12) International Application Status Report

Received at International Bureau: 21 September 2018 (21.09.2018)

Information valid as of: 12 March 2019 (12.03.2019)

Report generated on: 22 July 2019 (22.07.2019)

(10) Publication number:

WO2019/064141

(43) Publication date:

04 April 2019 (04.04.2019)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/IB2018/057298

(22) Filing Date:

21 September 2018 (21.09.2018)

(25) Filing language:

English (EN)

(31) Priority number(s):

15/717,343 (US)

(31) Priority date(s):

27 September 2017 (27.09.2017)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

A61B 17/115 (2006.01)

(71) Applicant(s):

ETHICON LLC [US/US]; #475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo 00969 (PR) *(for all designated states)*

(72) Inventor(s):

FOX, William D.; 4545 Creek Road Cincinnati, OH 45242 (US)

BAKOS, Gregory J.; 4545 Creek Road Cincinnati, OH 45242 (US)

UTH, Joshua; 4545 Creek Road Cincinnati, OH 45242 (US)

(74) Agent(s):

SHIRTZ, Joseph F.; Johnson & Johnson One Johnson & Johnson Plaza New Brunswick, NJ 08933 (US)

(54) Title (EN): CIRCULAR STAPLING INSTRUMENT WITH TORQUE LIMITING FEATURE

(54) Title (FR): INSTRUMENT D'AGRAFAGE CIRCULAIRE AVEC ELEMENT LIMITEUR DE COUPLE

(57) Abstract:

(EN): An apparatus includes a body, an anvil, a firing assembly, and a closure assembly. The firing assembly includes a staple driver, a deck member, and an annular array of staples. The closure assembly includes a trocar, a knob, and a limiting adjustment feature. The trocar is configured to actuate the anvil relative to the body to capture tissue between the anvil and the deck member. The knob is configured to rotate relative to the body to actuate the trocar relative to the body. The limiting adjustment feature is configured to selectively rotate the knob to actuate the trocar and the anvil proximally until tissue captured between the anvil and the deck member is compressed under a predetermined maximum clamping force. The limiting adjustment feature is configured to slip relative to the knob when tissue captured between then anvil and the deck member is compressed over the predetermined maximum clamping force.

(FR): L'invention concerne un appareil comprenant un corps, une enclume, un ensemble de déclenchement, et un ensemble de fermeture. L'ensemble de déclenchement comprend un dispositif d'entraînement d'agrafes, un élément de support et une matrice annulaire d'agrafes. L'ensemble de fermeture comprend un trocart, un bouton et un élément de réglage de limitation de couple. Le trocart est conçu pour actionner l'enclume par rapport au corps afin de capturer un tissu entre l'enclume et l'élément de support. Le bouton est conçu pour tourner par rapport au corps afin d'actionner le trocart par rapport au corps. L'élément de réglage de limitation est conçu pour faire tourner sélectivement le bouton afin d'actionner le trocart et l'enclume de manière proximale jusqu'à ce que le tissu capturé entre l'enclume et l'élément de pont soit comprimé sous une force de serrage maximale prédéterminée. L'élément de réglage de limitation est conçu pour glisser par rapport au bouton lorsque le tissu capturé entre l'enclume et l'élément de pont est comprimé sous la force de serrage maximale prédéterminée.

International search report:

Received at International Bureau: 03 January 2019 (03.01.2019) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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

European Patent Office (EPO) : 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

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African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))