

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 December 2019 (26.12.2019)



(10) International Publication Number
WO 2019/245678 A1

(51) International Patent Classification:
F16H 7/08 (2006.01) *F16H 7/12* (2006.01)

(21) International Application Number:
PCT/US2019/032561

(22) International Filing Date:
16 May 2019 (16.05.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
16/013,608 20 June 2018 (20.06.2018) US

(71) Applicant: **GATES CORPORATION** [US/US]; a Delaware Corporation, 1144 15th Street, Suite 1400, Denver, Colorado 80202 (US).

(72) Inventors: **DEMIR, Erman**; PAMUKKALE 2, GIRIS:50, KAT:6, DAIRE:23, MAVISEHIR, Izmir (TR). **CANKUL, Sarp**; Bostanli mah. 1771 sk. No:41/11, Karsiyaka, Izmir (TR). **FISHER, David W.**; 776 Ivanhoe St., Denver, Colorado 80220 (US). **GUCLU, Ahmet**; Erzene mah. 36 sk. No:3/9 Bornova, Izmir (TR).

(74) Agent: **DUNLAP, Paul, N.**; Gates Corporation, 1144 15th Street, Suite 1400, Denver, CO 80202 (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, 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.

(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).

(54) Title: TENSIONER

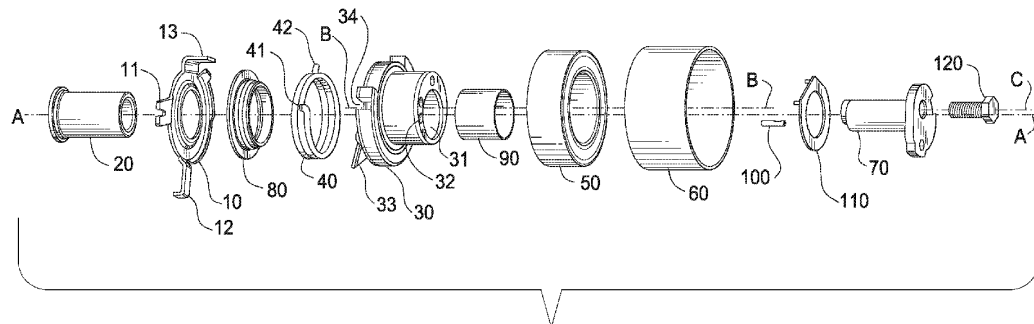


FIG.4

(57) Abstract: A tensioner comprising a base having a shaft, an adjusting member rotatably engaged within the shaft, a pivot arm pivotally engaged with a shaft exterior, a torsion spring engaged between the base and the pivot arm, a pulley journaled to the pivot arm, a pulley axis of rotation B-B that is laterally offset from a pivot arm pivot axis A-A, the adjusting member configured for rotation about a fastener having an axis C-C, the axis C-C is laterally offset from the axis A-A, and a rotary member rotationally engaged with the pivot arm, the rotary member in a first position allows rotation of the adjusting member about the fastener, and upon rotation of the rotary member to a second position the rotary member limits movement of the pivot arm in a predetermined range with respect to the adjusting member.

[Continued on next page]

WO 2019/245678 A1

Published:

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