

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)



(10) International Publication Number
WO 2021/123796 A1

(51) International Patent Classification:

A63B 21/22 (2006.01) A63B 21/00 (2006.01)
A63B 23/16 (2006.01) A63B 21/005 (2006.01)

(21) International Application Number:

PCT/GB2020/053270

(22) International Filing Date:

18 December 2020 (18.12.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1919084.2 20 December 2019 (20.12.2019) GB

(71) Applicant: **GYROGEAR LIMITED** [GB/GB]; 8A Quick Street, London N1 8HL (GB).

(72) Inventors: **ONG, Faii**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **BAXTER, Elliott**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **IBRAHIM, Youssef**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **KNIGHT, Stephen**; c/o Gy-

roGear Limited, 8A Quick Street, London N1 8HL (GB). **KOH, Benjamin**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **MCGABE, Gordon**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **DE PANISSE, Paul**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB). **TYLER, Stuart**; c/o GyroGear Limited, 8A Quick Street, London N1 8HL (GB).

(74) Agent: **HGF LIMITED**; Document Handling (London), 1 City Walk, Leeds Yorkshire LS11 9DX (GB).

(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, IT, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: APPARATUS FOR HAND TREMOR STABILISATION

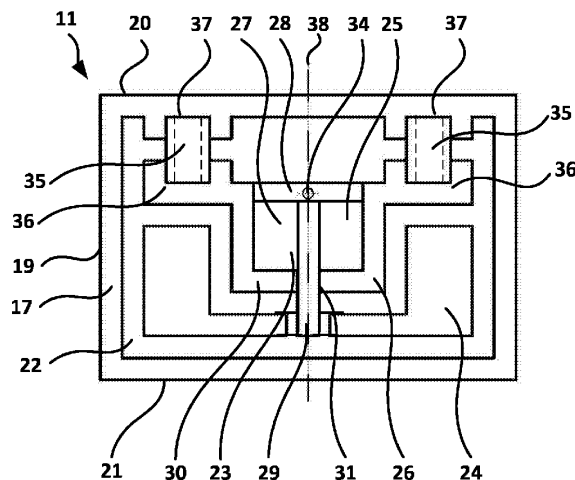


FIG. 3A

(57) Abstract: There is provided apparatus for hand tremor stabilisation comprising a rotatable flywheel assembly (23) mountable to a hand of a user. The rotatable flywheel assembly (23) comprises i) a flywheel (24) having a flywheel mass, m , and a flywheel diameter, d , and ii) a prime mover (25) adapted to rotate the flywheel (24) at a rotational speed, R , about a flywheel rotation axis (38) such that the rotatable flywheel assembly (23) generates an angular momentum having a magnitude of between about 0.05 kgm²/s and about 0.30 kgm²/s.

[Continued on next page]

WO 2021/123796 A1

(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))