



(43) International Publication Date
22 August 2013 (22.08.2013)

(51) International Patent Classification:

A63B 22/00 (2006.01) B62K 3/00 (2006.01)
A63B 69/16 (2006.01)

(21) International Application Number:

PCT/AU2013/000040

(22) International Filing Date:

21 January 2013 (21.01.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2012900603 17 February 2012 (17.02.2012) AU
2012902348 5 June 2012 (05.06.2012) AU

(71) Applicant: RUN4 PTY LTD [AU/AU]; C/- Davies Collison Cave, Level 14, 255 Elizabeth Street, Sydney, New South Wales 2000 (AU).

(72) Inventors: THOMAS, William Henry; 42 Linden Crescent, Qunaba, Queensland 4670 (AU). CRANITCH, Steven Patrick; 19 Douglas Street, Greenslopes, Queensland 4120 (AU).

(74) Agent: DAVIES COLLISON CAVE; Level 14, 255 Elizabeth Street, Sydney, New South Wales 2000 (AU).

(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, IS, JP, KE, KG, KM, 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, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: DRIVE ASSEMBLY AND EXERCISE APPARATUS INCLUDING A DRIVE ASSEMBLY

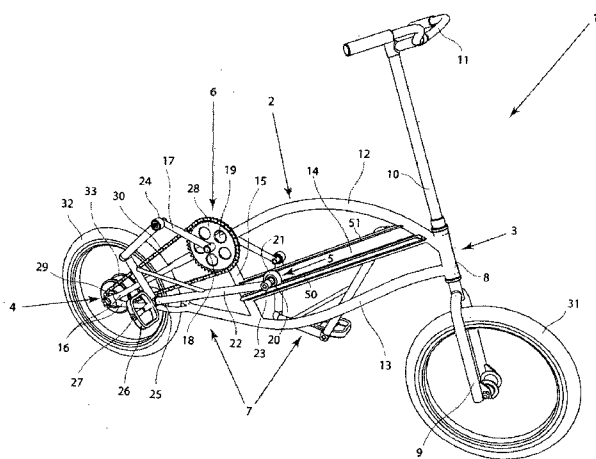


Figure 1

(57) Abstract: There is provided a drive assembly for converting the motion of a person running or jogging into mechanical motion to drive a machine or apparatus, such as self propelled apparatus like a bicycle, or stationary exercise apparatus. The drive assembly comprises a rotatable member, such as a crank arrangement, coupled to a frame of the machine and to stirrups, and where foot pedals are pivotally attached to each of the stirrups. A first pivot is connected between a stirrup and the rotatable member, and a second pivot is connected between the same stirrup and the frame. Preferably, a pivot axis of a foot pedal remains below the first pivot and the second pivot during motion of the foot pedal. Preferably, the pivot axis of the foot pedals trace asymmetric ovate paths during motion of the foot pedals. Motion of the foot pedals drive the rotatable member.