



(51) International Patent Classification:

B60K 17/14 (2006.01) **B60B 33/00** (2006.01)
B60K 7/00 (2006.01) **B60K 17/04** (2006.01)
B60K 17/30 (2006.01) **B62D 7/00** (2006.01)

(21) International Application Number:

PCT/SG2008/000374

(22) International Filing Date:

30 September 2008 (30.09.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10, Connexis, Singapore 138632 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YANG, Guilin** [SG/SG]; Blk 533, Jurong West St. 52, #06-437, Singapore 640533 (SG). **LIM, Chee Wang** [SG/SG]; Blk 290B, Compassvale Crescent, #09-42, Singapore 542290 (SG). **KONG, Chun Jeng** [SG/SG]; Blk 408, Clementi Avenue 1, #10-34, Singapore 120408 (SG). **LIM, Tao Ming** [SG/SG]; Blk 9E, Yuan Ching Road, #12-58, Singapore 618647 (SG).

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON (SINGAPORE) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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: POWERED CASTER WHEEL ASSEMBLY

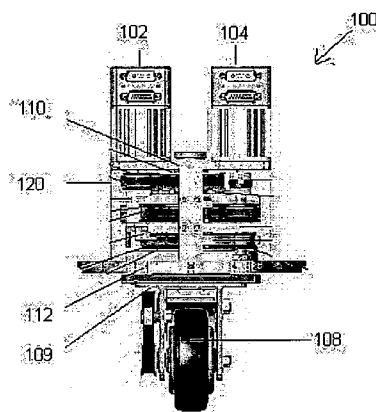


Figure 1A

(57) Abstract: A powered caster wheel assembly is provided. The assembly comprises a first actuator for driving a wheel; a second actuator for steering the wheel; and a mechanical compensating mechanism coupled between the second actuator and the wheel; wherein the mechanical compensating mechanism is arranged for driving the wheel to counter a driving motion of the wheel induced by steering.

