



(43) International Publication Date  
25 February 2016 (25.02.2016)

- (51) International Patent Classification:  
*H02K 49/04* (2006.01) *B60L 7/28* (2006.01)
- (21) International Application Number:  
PCT/NZ2015/050114
- (22) International Filing Date:  
18 August 2015 (18.08.2015)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
627633 18 August 2014 (18.08.2014) NZ
- (71) Applicant: **EDDY CURRENT LIMITED PARTNER-SHIP** [NZ/NZ]; c/- Unit 5, 295 Blenheim Road, Upper Riccarton, Christchurch, 8041 (NZ).
- (72) Inventors: **DIEHL, Andrew Karl**; c/- Unit 5, 295 Blenheim Road, Upper Riccarton, Christchurch, 8041 (NZ).  
**ALLINGTON, Christopher James**; c/- Unit 5, 295 Blenheim Road, Upper Riccarton, Christchurch, 8041 (NZ).
- (74) Agent: **SNOEP, Robert**; PO Box 21-445, Edgware, Christchurch 8143 (NZ).

(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, IR, IS, JP, KE, KG, KN, KP, KR, 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).

**Published:**

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

(54) Title: TUNING OF A KINEMATIC RELATIONSHIP BETWEEN MEMBERS

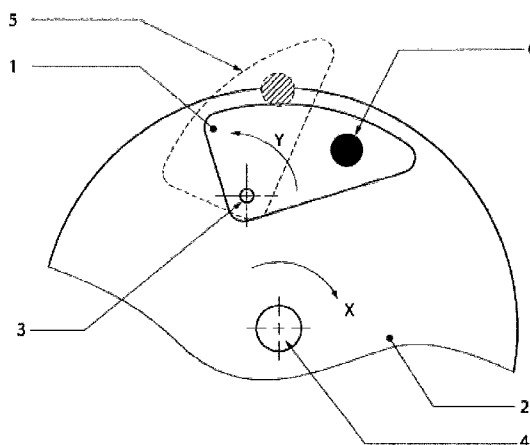


FIGURE 1

(57) Abstract: In one embodiment, the device comprises a first member in a kinematic relationship with at least one further member to form a system. The system interacts when an external energising force is imposed on the system causing the members to respond due to their kinematic and dynamic characteristics and thereby creating relative motion between the members. A trigger member is coupled to the at least the first member and moves in response to a pre-determined system movement. When the trigger member moves, the trigger member imposes a braking action on the system or members thereof. The speed or intensity of the braking action imposed by the trigger member on the system or members thereof is controlled by the trigger member rate of movement. This rate of movement is in turn governed by a magnetic flux interaction between the trigger member and the at least one first member causing formation of a magnetically induced eddy current force between the parts.

