

(43) International Publication Date
6 September 2013 (06.09.2013)

(51) International Patent Classification:

G01C 19/02 (2006.01) *H02K 7/02* (2006.01)
B62D 37/06 (2006.01)

(21) International Application Number:

PCT/US2013/028083

(22) International Filing Date:

27 February 2013 (27.02.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/603,885	27 February 2012 (27.02.2012)	US
61/603,886	27 February 2012 (27.02.2012)	US
13/777,919	26 February 2013 (26.02.2013)	US

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(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))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: GYROSCOPE STABILIZATION IN TWO-WHEELED VEHICLES

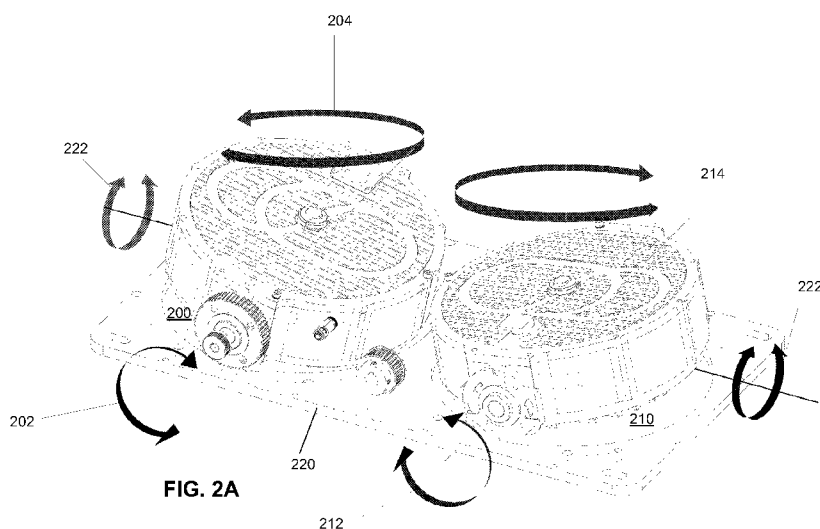


FIG. 2A

(57) Abstract: In embodiments of the invention, a vehicle stabilization control unit may determine a control moment value for one or more gyroscopes coupled to a vehicle frame to exert for stabilization of the vehicle frame. A number of input axes for the flywheels of the one or more gyroscopes to precess may be increased in order to generate the determined control moment value. In some embodiments, the one or more gyroscopes are further coupled to a turntable, and increasing the number of input axes for the flywheels comprises rotating the turntable. Furthermore, in some embodiments, the one or more gyroscopes comprise at least two gyroscopes coupled inline to the vehicle frame (e.g., aligned lengthwise with respect to the front and rear wheel to spin and precess in opposite directions with respect to each other).