



(51) International Patent Classification:

G01P 15/00 (2006.01) G01P 3/68 (2006.01)
G01C 22/00 (2006.01) G01P 7/00 (2006.01)
G01M 17/013 (2006.01)

(21) International Application Number:

PCT/IB2019/057998

(22) International Filing Date:

20 September 2019 (20.09.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/733,939 20 September 2018 (20.09.2018) 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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, 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, 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).

(54) Title: STATIONARY STATE DETERMINATION, SPEED MEASUREMENTS

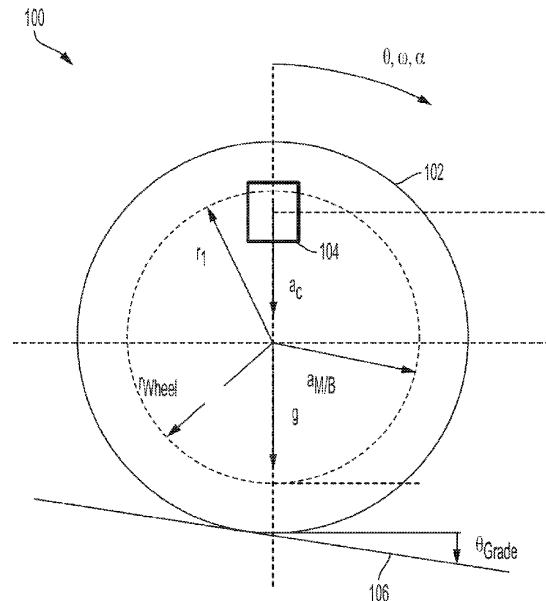


FIG. 1

(57) Abstract: A standalone odometry device includes an accelerometer and/or gyroscope configured to be mounted on a wheel or axle of a vehicle. A controller in communication with the accelerometer and/or gyroscope is configured to receive data from the accelerometer and/or gyroscope. The controller processes the data to determine one or more of the speed, wheel rotation direction, accumulated distance travelled, stationary status, acceleration, deceleration, wheel diameter, and grade of surface on which the wheel is in contact.

[Continued on next page]

Published:

- *with international search report (Art. 21(3))*
- *with amended claims (Art. 19(1))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*