



- (51) International Patent Classification:
B60C 23/04 (2006.01)
- (21) International Application Number:
PCT/MY2015/000048
- (22) International Filing Date:
16 June 2015 (16.06.2015)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PCT/MY2014/000186 19 June 2014 (19.06.2014) MY
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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, 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.

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(54) Title: WIRELESS TIRE MONITORING SYSTEM

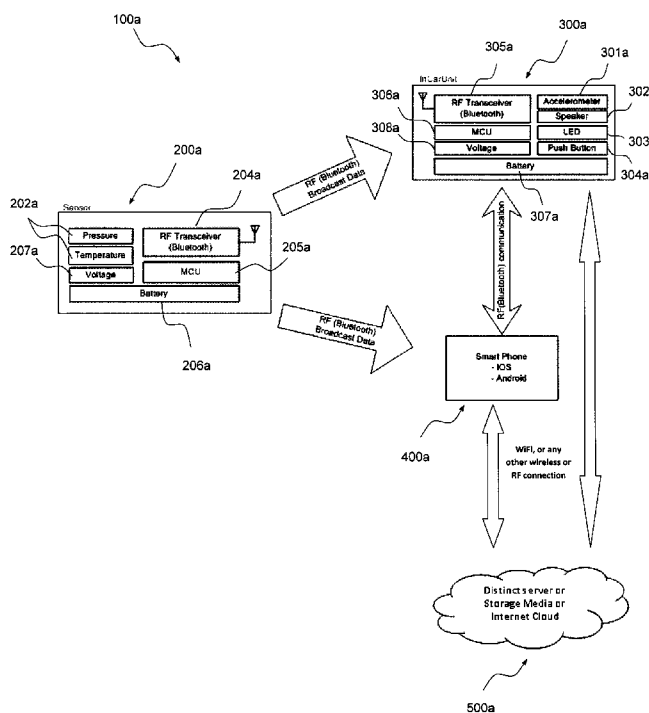


FIG. 4

(57) Abstract: The present invention relates to a wireless tire monitoring system for a vehicle. Accordingly, the wireless tire monitoring system (100a) includes: a) at least one sensor unit (200a) disposed at each tire of the vehicle for measuring at least one parameter relating to the condition of the tire; b) a mobile communication unit (400a) in communication with the sensor unit (200a), or in-car unit (300a) or other associated units, components / devices (if any), and distinct server / storage media / internet cloud (500a); c) a distinct server / storage media / internet cloud (500a) for storing all information relating to encryption key, user information/identities, or the parameters concerning to the condition of the tire measured by the sensor unit (200a); wherein the tire monitoring system (100a) is adapted to efficiently transmitting, storing, receiving / retrieving, pairing, sharing and/or broadcasting encryption data or other related information within the associated units, components / devices with the distinct server or storage media or the internet cloud (500a), in a parallel communication. It will be appreciated that the system may optionally provide with an in-car unit (300a) in communication with the sensor unit (200a) or other associated units, components / devices (if any), the mobile communication unit (400a) and distinct server / storage media / internet cloud (500a).



(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))
- 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))