

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 December 2008 (31.12.2008)

PCT

(10) International Publication Number
WO 2009/001303 A1

(51) International Patent Classification:

G07B 15/00 (2006.01) G07C 5/00 (2006.01)
G07B 15/02 (2006.01)

(21) International Application Number:

PCT/IB2008/052538

(22) International Filing Date: 25 June 2008 (25.06.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0712377.1 26 June 2007 (26.06.2007) GB

(71) Applicant (for all designated States except US): **NXP B.V.**
[NL/NL]; High Tech Campus 60, NL-5656 AG Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DAEMS, Frank, C., H.** [BE/BE]; c/o NXP Semiconductors, IP Department, Cross Oak Lane, Redhill Surrey RH1 5HA (GB).
PEETERS, Michael, M., P. [BE/BE]; c/o NXP Semiconductors, IP Department, Cross Oak Lane, Redhill Surrey RH1 5HA (GB).

(74) Agents: **WHITE, Andrew, G.** et al.; c/o NXP Semiconductors, IP Department, Cross Oak Lane, Redhill Surrey RH1 5HA (GB).

(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, 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).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report

[Continued on next page]

(54) Title: ROAD TOLL SYSTEM

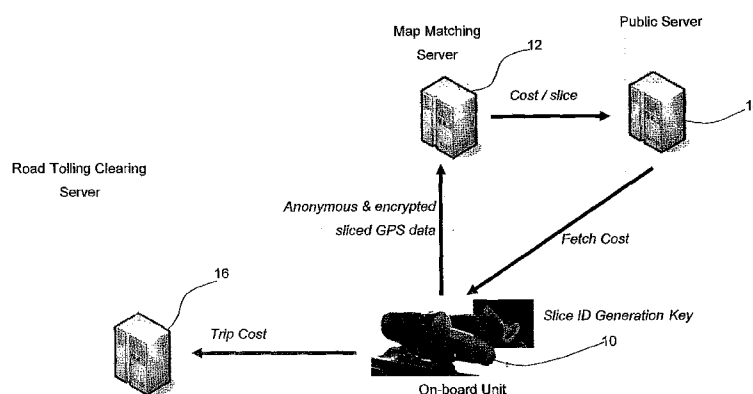


FIG. 2

(57) Abstract: A road toll system comprises a vehicle-mounted unit having a satellite navigation receiver. A first data processing means determines a route taken 5 based on satellite navigation data provided from the receiver, and the satellite navigation data is associated with a variable identity. A road toll level is derived. A second data processing means receives the road toll level provided by the first data processing means, and the satellite navigation obtains the determined road toll level from the second data processing means using the 10 variable identity. This provides a thin client scenario(the receiver does not implement the map calculations), but with data security corresponding to a thick client solution. Thus, the map matching and trip cost computation steps are delegated by the on-board unit to an external unit, but this delegation is performed anonymously, so that no data sent for external processing 15 compromises the privacy of the data.

WO 2009/001303 A1



-
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*