



(51) International Patent Classification:
H04B 7/185 (2006.01) *H04L 29/08* (2006.01)
H04L 12/56 (2006.01)

(21) International Application Number:
PCT/US2011/052620

(22) International Filing Date:
21 September 2011 (21.09.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/900,872 8 October 2010 (08.10.2010) US

(71) Applicant (for all designated States except US): **THE BOEING COMPANY** [US/US]; 100 North Riverside Plaza, Chicago, Illinois 60606-2016 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ANGUS, Ian G.** [US/US]; 6127 84th Ave SE, Mercer Island, Washington

98040 (US). **REID, Travis S.** [US/US]; 810 12th Ave, 404, Seattle, Washington 98122 (US).

(74) Agent: **LEPORE, John A.**; The Boeing Company, P.O. Box 2515, MC 110-SD54, Seal Beach, California 90740-1515 (US).

(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, 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, 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, SD, SL, SZ, TZ, UG,

[Continued on next page]

(54) Title: METHODS AND SYSTEMS FOR COMMUNICATING BETWEEN A VEHICLE AND A REMOTE APPLICATION SERVER

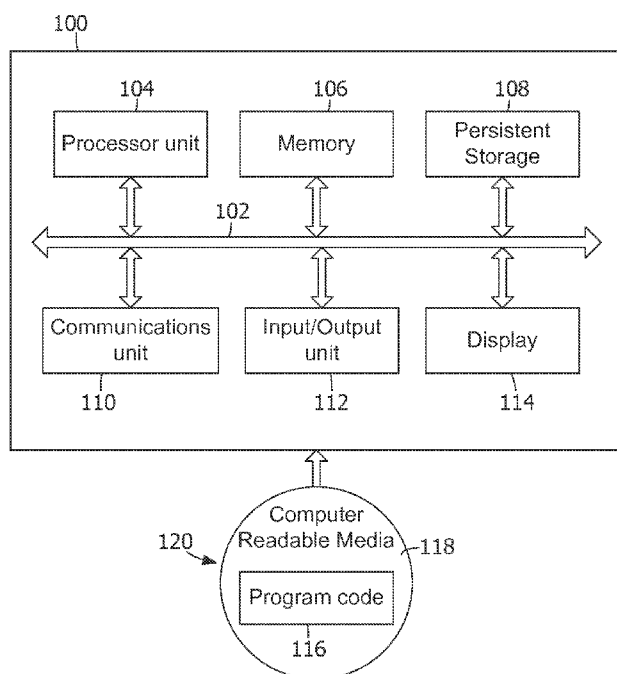


FIG. 1

(57) Abstract: Methods and apparatus for use in communicating between a vehicle and a remote application server. An application message is received from a vehicle. A computer system determines whether an uplink connection can be established between the computer system and a remote application server that provides a remote software application associated with the application message. The application message is redirected to a local software application executed by the computer system when an uplink connection cannot be established. Data may be subsequently synchronized between the local software application and the remote software application.



ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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))*