

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 May 2013 (16.05.2013)



(10) International Publication Number
WO 2013/069819 A9

- (51) International Patent Classification:
H04W 16/14 (2009.01) *H04W 74/08* (2009.01)
- (21) International Application Number:
PCT/JP2012/079873
- (22) International Filing Date:
9 November 2012 (09.11.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/294,084 10 November 2011 (10.11.2011) 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.

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(54) Title: OPTIMIZING VEHICULAR DYNAMIC SPECTRUM ACCESS USING CASE-BASED LEARNING TECHNIQUES

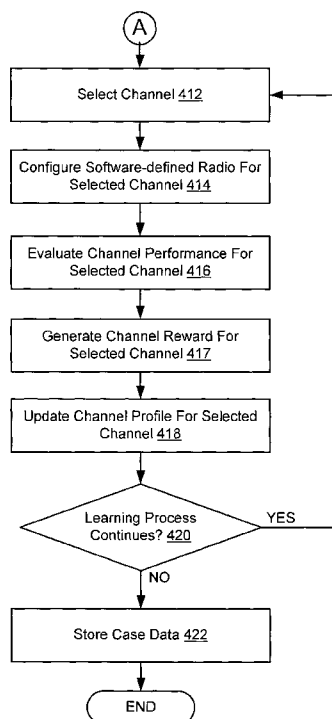


Figure 4B

(57) Abstract: A system and method for optimizing spectrum access in data communications is disclosed. The system comprises a case module, a selection engine, an evaluation module and an update module. The case module determines a present case based at least in part on sensor data and environmental data, determines a matching case for the present case and configures one or more channel profiles for the present case based at least in part on the matching case. The selection engine selects a first channel based on the one or more channel profiles. The first channel is associated with a first channel profile from the one or more channel profiles. The evaluation module evaluates a first channel performance for the first channel and generates a first channel reward for the first channel. The update module updates the first channel profile based at least in part on the first channel reward.



(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))*

(48) Date of publication of this corrected version:

27 June 2013

(15) Information about Correction:

see Notice of 27 June 2013