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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, 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.

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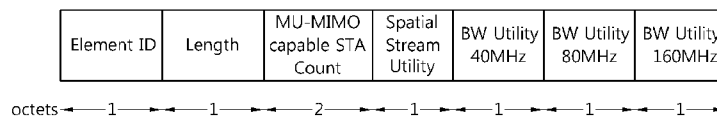
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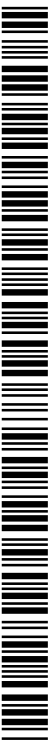
20 September 2012

(54) Title: METHOD AND APPARATUS FOR TRANSMITTING MANAGEMENT INFORMATION FRAME IN WIRELESS LOCAL AREA NETWORK SYSTEM

[Fig. 18]



(57) Abstract: A method and of transmitting management information, performed by an access point(AP), in a wireless local area network system is provided. The method includes transmitting, to a station, a frame including a BSS load information element, the BSS load element including a multi user(MU) multiple input multiple output(MIMO) capable STA count field and a plurality of bandwidth utilization fields, wherein the MU-MIMO capable STA count field indicates a total number of STAs with MU reception capability currently associated with a candidate BSS managed by the AP and the plurality of bandwidth utilization fields indicate whether a plurality of operating channel width are busy.



A. CLASSIFICATION OF SUBJECT MATTER***H04W 48/20(2009.01)i, H04W 48/08(2009.01)i, H04B 7/04(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04W 48/20; H04Q 7/24; G06F 15/173; H04W 28/06; G06F 21/00; H04W 88/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords:access point, basic service set, load element, bandwidth

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2007-0014267 A1 (ALEX LAM et al.) 18 January 2007 See abstract; claims 17-19; figures 7-9.	1-15
A	US 2009-0300763 A1 (HARVEY ELAINE et al.) 03 December 2009 See abstract; paragraphs [0123-0137].	1-15
A	KR 10-2010-0084139 A (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 23 July 2010 See claims 1-15; figures 2-4.	1-15

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

27 JULY 2012 (27.07.2012)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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