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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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(54) Title: MOBILE COMMUNICATION DEVICE MAINTAINING LIFETRAILS IN A BATTERY EFFICIENT MANNER

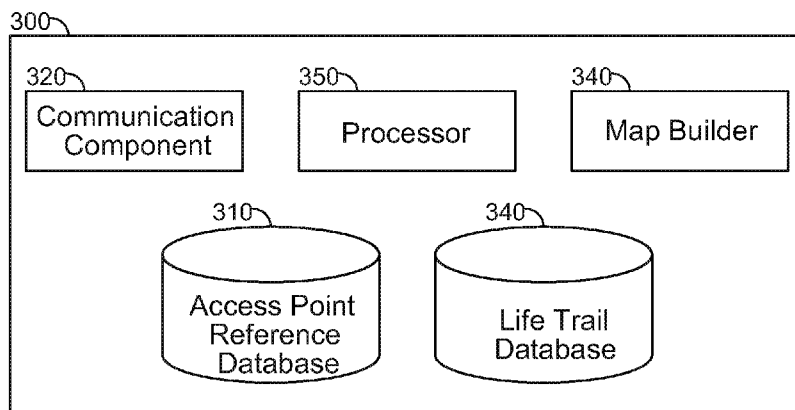
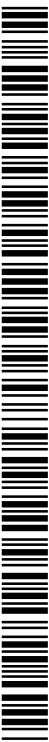


FIG. 3

(57) Abstract: A method is used to develop and maintain a user's lifetrail, which is a historical record specifying the location of the user while in possession of a mobile communication device. A mobile device determines its location by extracting a beacon ID from a signal source and transmitting it to a remotely-located server, which accesses a look-up table to find the corresponding location of the signal source represented by the beacon ID. The server transmits the signal source location back to the mobile device so that the mobile device knows that it is located within the coverage area of the signal source. Battery power is conserved by collecting the beacon IDs when it is receiving the beacon signals for some other purpose and not necessarily solely for the purpose of determining its current location.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/042787**A. CLASSIFICATION OF SUBJECT MATTER***H04W 64/00(2009.01)i, H04W 52/02(2009.01)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 64/00; H04W 4/00

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: history, AP, location, timestamp, mobile device

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 2011-0051665 A1 (RONALD KERYUAN HUANG) 03 March 2011 See paragraphs [0014], [0017]-[0025].	1-4,7 5-6 8-10
Y	US 2004-0043767 A1 (TAKAYUKI TSUTSUMI et al.) 04 March 2004 See paragraphs [0035], [0075].	5-6
A	US 2008-0013487 A1 (MARCO MOLTENI et al.) 17 January 2008 See paragraphs [0099]-[0107].	1-10

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

* Special categories of cited documents:

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"&" document member of the same patent family

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Information on patent family members

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