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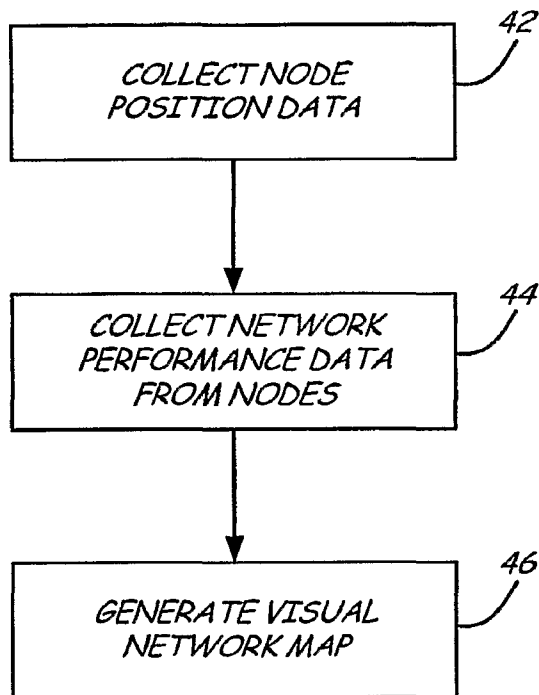
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(54) Title: VISUAL MAPPING OF FIELD DEVICE MESSAGE ROUTES IN A WIRELESS MESH NETWORK



(57) Abstract: A control system uses a wireless mesh network to provide communication between a host computer and field devices. Performance of the wireless mesh network is monitored by collecting network performance data from each node, such as the nodes with which it is communicating, received signal strengths over links to different nodes, the number of errors occurring on each link, and how frequently communication is occurring with each of the other nodes. A visual network map is generated using performance statistics based on the data gathered from the nodes of the wireless mesh network. The visual network map allows a user to determine the routes that messages take through the wireless mesh network, diagnose potential problems, and make adjustments to improve network performance.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04Q 07/20 (2007.01)

USPC - 455/446

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)

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USPC - 455,446, 426, 422.1

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

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

MicroPatent

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0259555 A1 (RAPPAPORT et al) 23 December 2004 (23.12.2004) entire document	1-20
A	US 2004/0001084 A1 (SHRINIDHI et al) 01 January 2004 (01.01.2004) entire document	1-20
A	US 2005/0164684 A1 (CHEN et al) 28 July 2005 (28.07.2005) entire document	1-20
A	US 2005/0192727 A1 (SHOSTAK et al) 01 September 2005 (01.08.2005) entire document	1-20

 Further documents are listed in the continuation of Box C.

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