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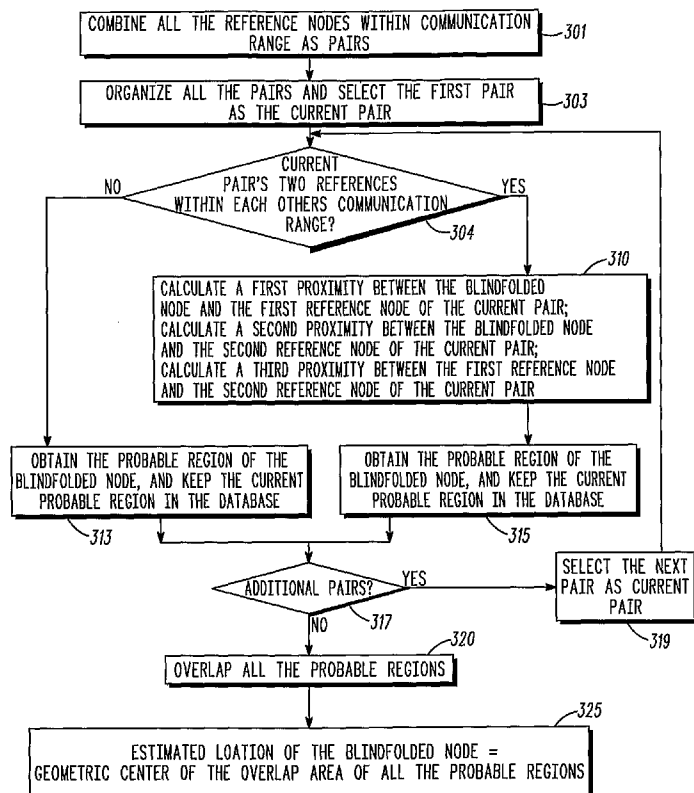
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[Continued on next page]

(54) Title: METHOD FOR ESTIMATING THE LOCATION OF A WIRELESS DEVICE IN A COMMUNICATION NETWORK



(57) Abstract: A method for estimating the location of a blindfolded node (235) in a wireless network having reference nodes (225, 230) is provided. The reference nodes (225, 230) are combined into pairs (301) and each pair is checked to determine if the reference nodes are within each other's communication range (304). A plurality of probable regions (315) for the blindfolded node are obtained (313, 315). These probable regions are overlapped (320), and the blindfolded node's estimated location is estimated to be the geometric center of the overlapped regions (325).



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# INTERNATIONAL SEARCH REPORT

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PCT/US06/19436

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04Q 7/20;H04M 11/04

USPC: 455/456.1,440,404.2

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)

U.S. : 455/456.1,440,404.2

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,134,448 A (SHOJI et al) 17 October 2000 (17.10.2000), see entire document	1-8
T	US 7,123,925 B2 (ROBINSON et al) 17 October 2006 (17.10.2006), see entire document	9-10



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