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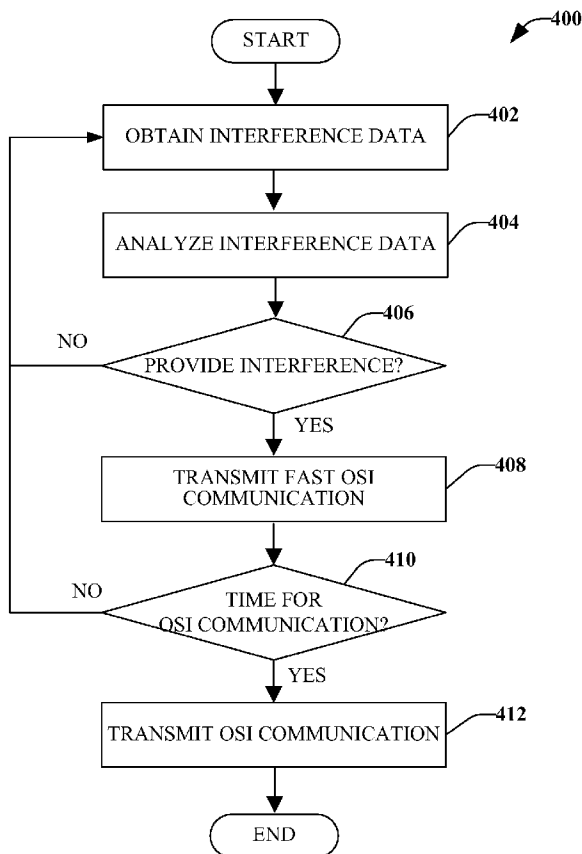
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[Continued on next page]

(54) Title: POWER CONTROL USING MULTIPLE RATE INTERFERENCE INDICATIONS



(57) Abstract: Systems and methodologies are described that facilitate mitigation of interference in a wireless communication environment. Terminals can utilize interference information provided by neighboring sectors to adjust transmit power and reduce interference. Access points can provide two sets or types of interference information. The first type can be transmitted over a large coverage area, requiring significant overhead and limiting the transmission rate. Access points can also provide a second set or type of interference information directed at smaller coverage area, such as an area proximate to the edge of the supported sector. This second type of interference information can be utilized by terminals that include the access point within their active set. The second set of interference information can be provided at a higher rate than the first set due to decreased overhead requirements. Terminals can utilize both sets of interference information to adjust transmit power.

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**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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**INTERNATIONAL SEARCH REPORT**

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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. H04B7/005

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)  
H04B

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 practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/168994 A1 (TERRY STEPHEN E [US] ET AL) 14 November 2002 (2002-11-14) abstract paragraphs [0018] - [0042] claim 1 figure 2	1-48
A	EP 1 353 455 A (MATSUSHITA ELECTRIC IND CO LTD [JP]) 15 October 2003 (2003-10-15) abstract paragraphs [0007] - [0009] claims 1,11,12	1-48
P,A	WO 2006/007318 A (QUALCOMM INC [US]; SUTIVONG ARAK [US]; AVNEESH AGRAWAL [US]; JULIAN DA) 19 January 2006 (2006-01-19) abstract paragraphs [0009], [0010] claim 1	1-48

Further documents are listed in the continuation of Box C.

See patent family annex.

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\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*8\* document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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