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(71) Applicant (for all designated States except US): **MOTOROLA, INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, Illinois 60196 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RAMAN, Vijay R.** [IN/IN]; 47 10th Street Baba Nagar, Chennai 600049, Tamil Nadu (IN). **KALYANASUNDARAM, Suresh** [IN/IN]; A-201, Bairavi Dhrupad, 1089/882, New Thip-pasandra MN Road, HAL III Stage, Bangalore 560075,

Karnataka (IN). **KUNNIYUR, Srisankar** [IN/IN]; B5 Surya Apartments, Chennai 600092, Tamil Nadu (IN). **RAMACHANDRAN, Vinod Kumar** [IN/IN]; 3 Duruvan Street Thiruvalluvar, Chennai 600075, Tamil Nadu (IN). **DIWAN, Aniruddha S. Subhash** [IN/IN]; 11, Ashish Chaitanya, Nagar Housing Society, Aurangabad 431001, Maharashtra (IN).

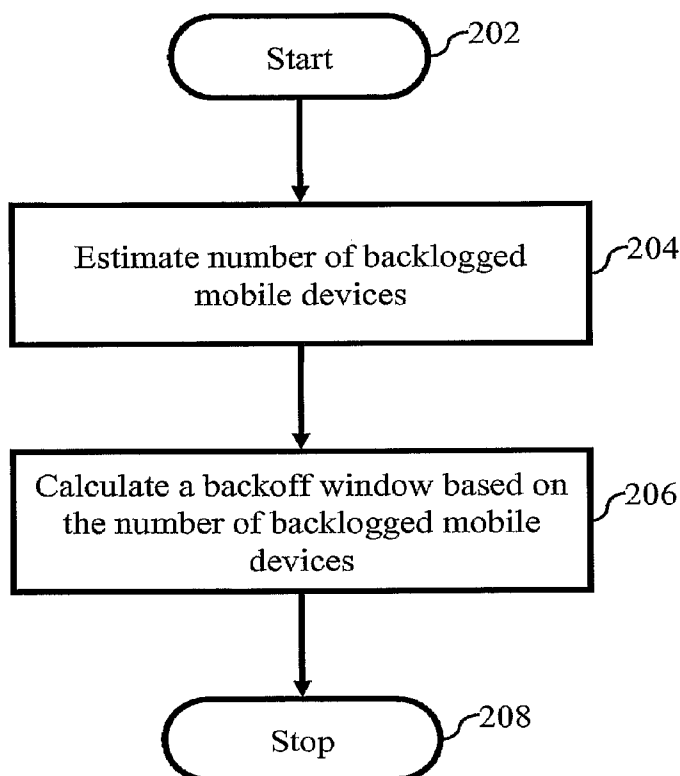
(74) Agents: **HAAS, Kenneth A.**, et al.; 1303 East Algonquin Road, Schaumburg, Illinois 60196 (US).

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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR SELECTING BACKOFF WINDOW IN COMMUNICATION NETWORKS



(57) Abstract: A method and system for selecting a backoff window in communication network (100) is disclosed. The communication a base station (102) and at least one mobile device (104, 106, 108, and 110). The method includes estimating (204) number of backlogged mobile devices at the base station. The method also includes calculating (206) a backoff window based on the number of backlogged mobile devices in the communication network. Further, the backoff window is calculated at the base station.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/62207

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04J 3/16 (2008.01)

USPC - 370/468

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)

IPC(8) - H04J 3/16 (2008.01)

USPC - 370/468

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)

Databases: PatBase, 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 2002/0163933 A1 (BENVENISTE) 07 November 2002 (07.11.2002) entire document      | 1-8                   |

☐ Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

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Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450

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Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300  
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/62207

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See Extra Sheet (page 10)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-8

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.