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(54) Title: METHOD AND APPARATUS FOR BROADCAST OF SYSTEM INFORMATION TRANSMISSION WINDOW

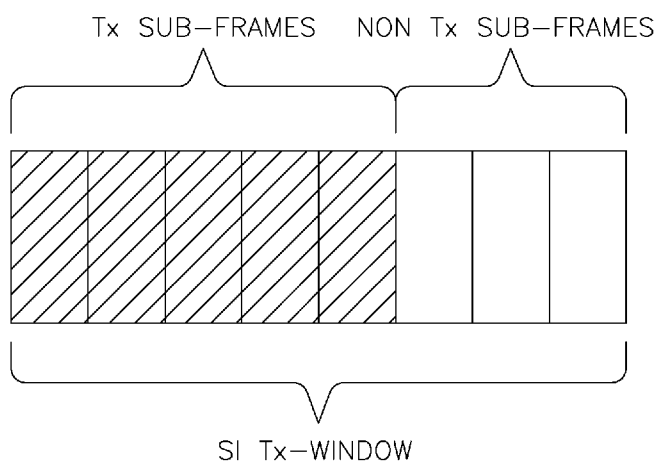


FIG. 4A

(57) Abstract: A method and an apparatus are provided for allocating sub-frames in a system information transmission window, allocating transmission sub-frames consecutively at the beginning of the system information transmission window, allocating non-transmission sub-frames at end of the system information transmission window, and transmitting the system information transmission window. A method and apparatus for receiving and ordering of system information messages is also provided.



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**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2009/040218

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. H04W48/12 H04W48/16  
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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

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.
X	EP 1 909 520 A1 (MATSUSHITA ELECTRIC IND CO LTD [JP]) 9 April 2008 (2008-04-09)	1-5
Y	paragraphs [0021], [0022], [0025] paragraphs [0034], [0035] paragraphs [0076], [0077] paragraph [0085] - paragraph [0093] paragraph [0095] - paragraph [0102] paragraph [0110] - paragraph [0123] paragraph [0132] figures 4, 9-17	6

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

\* Special categories of cited documents :

*A* document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*E* earlier document but published on or after the international filing date	*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
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*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.
*O* document referring to an oral disclosure, use, exhibition or other means	*Z* document member of the same patent family
*P* document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Bösch, Michael
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## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/040218

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	QUALCOMM EUROPE: "Increasing time domain space for SI windows" 3GPP DRAFT; R2-086794, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Prague, Czech Republic; 20081110, 10 November 2008 (2008-11-10), XP050321614 [retrieved on 2008-11-05] paragraph [001.] - paragraph [02.3]	1-5
A,P	WO 2009/001288 A2 (NOKIA CORP [FI]; NOKIA INC [US]; DALSGAARD LARS [FI]; ALANARA SEPPONEN M) 31 December 2008 (2008-12-31) paragraph [0017] - paragraph [0024] paragraph [0084] - paragraph [0091] figure 5	1-5
A,P	WO 2009/020926 A1 (INTERDIGITAL PATENT HOLDINGS I [US]; SOMASUNDARAM SHANKAR [US]; WANG P) 12 February 2009 (2009-02-12) paragraph [0007] - paragraph [0010] paragraph [0021] - paragraph [0026] figure 2	1-5
X	RAPPORTEUR (SAMSUNG): "Miscellaneous clarifications/ corrections" 3GPP DRAFT; R2-082050 CROOXR1 TO 36331(REL-8) ON MISCELLANEOUS CLARIFICATIONS AND CORRECTIONS-HL, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG2, no. Shenzhen, China; 20080331, 15 April 2008 (2008-04-15), XP050139680	7-14
Y A	paragraphs [5.2.1.1], [5.2.1.2] paragraphs [5.2.2.3], [5.2.3] paragraphs [6.2.1], [6.3.1]	6 1-5
A,P	VICE CHAIRMAN: "Report of E-UTRA control plane session" 3GPP DRAFT; R2-082841-CHAIR-REPORT-RAN2-62-LTE-CP, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG2, no. Kansas City, USA; 20080505, 9 May 2008 (2008-05-09), XP050140403 paragraph [5.2.1.2]	1-14

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2009/040218

## 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 additional sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2.  As all searchable claims could be searched without effort justifying an 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.:

### 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.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

## 1. claims: 1-5

The first invention concerns a method for allocating transmission subframes in a system information transmission window comprising the steps of:

- allocating transmission sub-frames consecutively at beginning of the system information transmission window;
  - allocating non-transmission sub-frames at end of the system information transmission window; and
  - transmitting the system information transmission window.
- 

## 2. claims: 6-14

The second invention is related to a method (and corresponding WTRU) of receiving system information comprising the steps of:

- receiving a first system information block that includes a system information scheduling list and a periodicity for each of a plurality of system information messages and associated system information blocks;
- determining whether at least two of the plurality of system information messages have a same calculated transmit occasion; and
- in response to a determination that at least two of the plurality of system information blocks have the same calculated transmit occasion, determining an order of actual transmit occasions for the plurality of system information blocks, and receiving the plurality of system information blocks in the determined order of actual transmit occasions.

Remark:

Claim 6 concerns an appliance of the second invention in the first invention.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/040218

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1909520	A1 09-04-2008	WO 2008040447 A1	10-04-2008
WO 2009001288	A2 31-12-2008	NONE	
WO 2009020926	A1 12-02-2009	US 2009034452 A1	05-02-2009