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61/025,908 4 February 2008 (04.02.2008) US(71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).(71) Applicant (for LC only): **NOKIA INC.** [US/US]; 6021 Connection Drive, Irving, Texas 75039 (US).

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(54) Title: METHOD AND APPARATUS FOR CONVEYING ANTENNA CONFIGURATION INFORMATION VIA MASKING

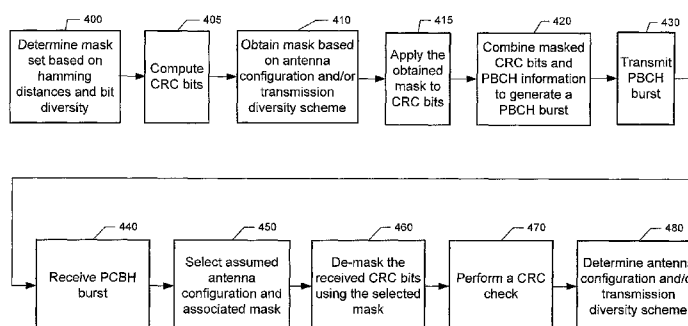


FIG. 4

(57) Abstract: A method, apparatus and computer program product are provided for conveying information regarding the antenna configuration and/or the transmission diversity scheme to a recipient, such as a mobile device. In particular, information regarding the antenna configuration and/or the transmission diversity scheme can be conveyed by masking, such as cyclic redundancy check masking, to provide information regarding the antenna configuration and/or the transmission diversity scheme. In this regard, a set of masks can be determined based upon hamming distances between the masks and bit diversities between the masks and where each of the masks within the set is associated with an antenna configuration and a transmission diversity scheme.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/050044

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04B7/06

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, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	NOKIA SIEMENS NETWORKS ET AL: "CRC Mask Selection for PBCH" 3GPP DRAFT; R1-080944, 3RD GENERATION PARTNERSHIP PROJECT (3GPP). MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Sorrento, Italy; 20080211, 5 February 2008 (2008-02-05), XP050109416 the whole document	1-32
E,L	WO 2009/090482 A (NOKIA CORP [FI]; NOKIA INC [US]; RAAF BERNHARD [DE]; ROMAN TIMO ERIC []) 23 July 2009 (2009-07-23) cited in the application L:Priority the whole document	1-32

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

☒ See patent family annex.

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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

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NOKIA SIEMENS NETWORKS ET AL: "Issues with PBCH-based Blind Antenna Configuration Detection" 3GPP DRAFT; R1-080324, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Sevilla, Spain; 20080114, 8 January 2008 (2008-01-08), XP050108845 pages 1,4,5,7 -----	1-32
X	NOKIA SIEMENS NETWORKS ET AL: "Way Forward on PBCH for FDD and TDD" 3GPP DRAFT; R1-080586, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Sevilla, Spain; 20080114, 17 January 2008 (2008-01-17), XP050109087 the whole document -----	1-32
E	US 2009/060088 A1 (CALLARD AARON [CA] ET AL) 5 March 2009 (2009-03-05) the whole document -----	1-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009090482 A	23-07-2009	US 2009176463 A1	09-07-2009
US 2009060088 A1	05-03-2009	NONE	