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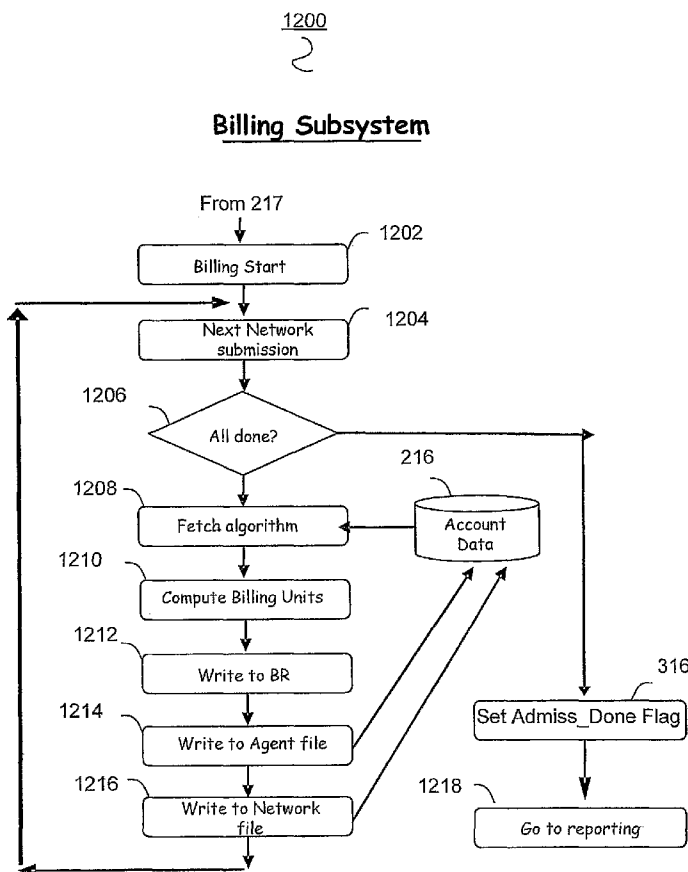
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(81) **Designated States (unless otherwise indicated, for every  
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GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS,  
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RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,  
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[Continued on next page]

(54) **Title:** MESSAGE BROADCASTING BILLING SYSTEM AND METHOD



(57) **Abstract:** A system and method for billing for network usage for broadcast transmission to broadcast message receiving devices located within a broadcast target area includes validating the broadcast message record for transmission over a broadcast transmission network and generating a validated broadcast message record as a function of the validating. The method also includes determining a density of broadcast receiving devices associated with the broadcast transmission network in the broadcast target area, calculating an area for message broadcast transmission within the broadcast target area served by the broadcast transmission network, and determining a length of the broadcast message contained within the validated broadcast message record. The method further includes calculating an incurred broadcast message billing amount for the broadcast message as a function of the determined broadcast message length, the calculated broadcast area, the determined density, the broadcast message originator identifier, and a broadcast transmission network billing rate parameter.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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## INTERNATIONAL SEARCH REPORT

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PCT/US2006/045023

A. CLASSIFICATION OF SUBJECT MATTER  
 INV. H04L12/18 H04L12/14

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)  
 H04L H04N

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.
Y A	EP 1 515 512 A (NIPPON ELECTRIC CO [JP]) 16 March 2005 (2005-03-16) column 3, paragraph 19 - column 6, paragraph 28 column 7, paragraph 32 - column 7, paragraph 33 column 9, paragraph 38 - column 10, paragraph 42 column 16, paragraph 84 - column 17, paragraph 95 column 19, paragraph 120 - column 23, paragraph 152	1,4 2,3,5-19
Y A	WO 01/89150 A (RELIACAST INC [US]) 22 November 2001 (2001-11-22) page 3, line 21 - page 6, line 13 page 9, line 5 - page 50, line 17	1,4 2,3,5-19
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 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  
 \*E\* earlier document but published on or after the international filing date  
 \*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)  
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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.  
 \*&\* document member of the same patent family

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14 May 2007

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## INTERNATIONAL SEARCH REPORT

International application No  
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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.
A	WO 03/071392 A (NOKIA CORP [FI]; NOKIA INC [US] NOKIA CORP [FI]) 28 August 2003 (2003-08-28) page 5, line 5 - page 6, line 12 page 11, line 14 - page 11, line 20 -----	1-19
A	"Universal Mobile Telecommunications System (UMTS)" ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. 3-SA2, no. V660, March 2005 (2005-03), XP014027540 ISSN: 0000-0001 the whole document -----	1-19

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2006/045023

## Box 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 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 all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
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 - 19

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- 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: 1-19

Method for determining a broadcast message billing rate parameter and associated method for billing for transmission of a broadcast message.

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2. claims: 20-49

System and method for billing a broadcast message system for network usage.

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3. claims: 50-58

System and method for billing a user for a broadcast message when the user is not located in the broadcast target area.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/US2006/045023</b>
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Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
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WO 0189150	A	22-11-2001	AU 6327301 A	26-11-2001
WO 03071392	A	28-08-2003	AT 326093 T CN 1606751 A DE 60305085 T2 EP 1341341 A2 US 2003172165 A1 US 2005283447 A1	15-06-2006 13-04-2005 05-10-2006 03-09-2003 11-09-2003 22-12-2005