

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 September 2000 (14.09.2000)

PCT

(10) International Publication Number
WO 00/54533 A3

(51) International Patent Classification⁷: **H04Q 7/36**

(21) International Application Number: PCT/SE00/00245

(22) International Filing Date: 8 February 2000 (08.02.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/263,950 8 March 1999 (08.03.1999) US

(71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventors: LINDHEIMER, Christofer; Köpenhamns-
gatan 26, S-164 24 Kista (SE). MAZUR, Sara; Vikavägen
11, S-167 71 Bromma (SE). MOLNÖ, Johan; Kungsklip-
pan 12, S-112 25 Stockholm (SE).

(74) Agent: NORIN, Klas; Ericsson Radio Systems AB, Com-
mon Patent Department, S-164 80 Stockholm (SE).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW. .

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

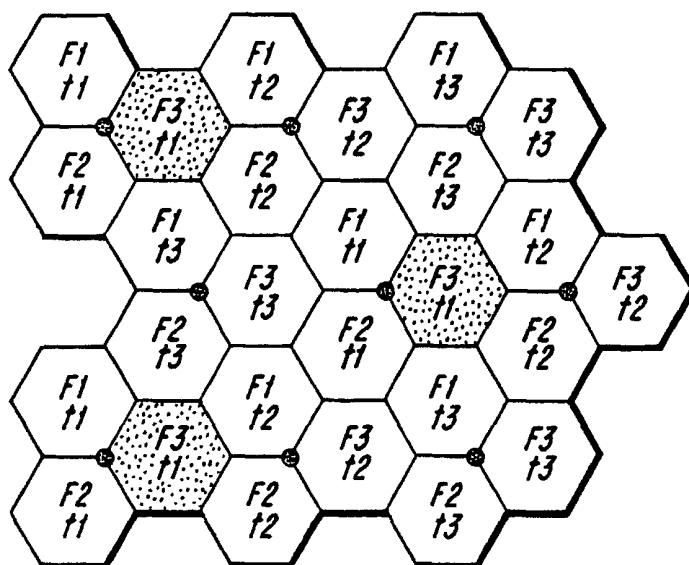
Published:

— With international search report.

(88) Date of publication of the international search report:
11 January 2001

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.

(54) Title: METHOD AND SYSTEM FOR WIRELESS PACKET DATA COMMUNICATION



(57) Abstract: A system and method for a synchronized packet data communication system is described. Control channels are transmitted in a reuse pattern defined by both frequency and timeslot division. Each timeslot division is such that different timeslot groups included in the repetition pattern are separated by at least one timeslot. No traffic data transmissions occur simultaneous to the control channel transmissions. Furthermore, a synchronization channel is introduced to be transmitted on the same physical channel as other packet common control channels.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/SE 00/00245

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/36

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 7 H04Q 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 12489 A (PACIFIC COMM SCIENCES INC) 3 April 1997 (1997-04-03) cited in the application page 2, line 15 - line 22 page 4, line 9 - line 19 page 5, line 13 - line 15 page 8, line 17 - line 19 page 10, line 32 -page 11, line 2 ---	1-12
A	US 5 774 790 A (DUPUY PIERRE) 30 June 1998 (1998-06-30) column 5, line 38 -column 6, line 3 column 7, line 13 - line 19 claim 1 ---	1,6,11, 12
A	US 5 570 352 A (POEYHOENEN PETRI) 29 October 1996 (1996-10-29) column 6, line 33 -column 7, line 40 ---	1,6,11, 12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in 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)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

Date of the actual completion of the international search

11 July 2000

Date of mailing of the international search report

19.09.00

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kampouris, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/SE 00/00245

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 111 534 A (BENNER FRANK D) 5 May 1992 (1992-05-05) column 6, line 4 - line 22 column 6, line 35 - line 40 column 6, line 61 -column 7, line 2 ---	1,3-6, 8-10
A	US 5 732 076 A (KETSEOGLU THOMAS J ET AL) 24 March 1998 (1998-03-24) column 1, line 40 - line 54 column 7, line 11 - line 20 column 27, line 32 -column 28, line 4 -----	1-3,5-8, 10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 00/00245

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

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.:

1-12

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

1. Claims: 1-12

A method for the reduction of the frequency spectrum occupation of a GPRS system.

2. Claims: 13-16

A method to provide synchronisation for a GPRS packet switched system.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/SE 00/00245

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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