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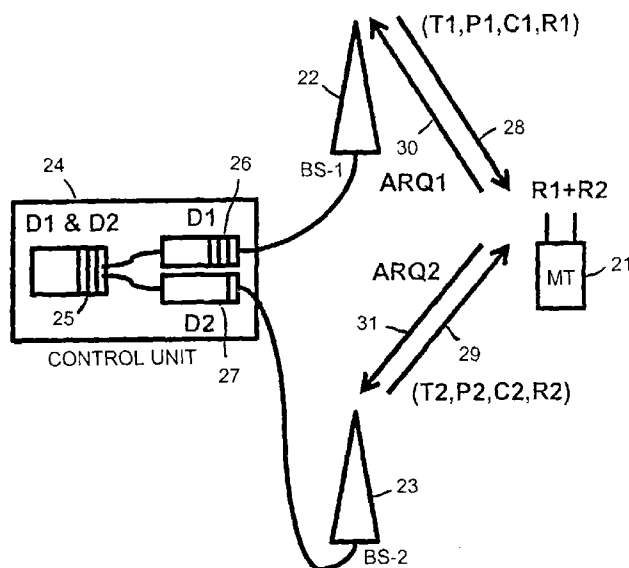
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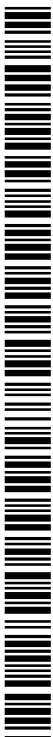
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: ARRANGEMENT AND METHOD FOR SPLITTED CELLULAR DATA TRANSMISSION



(57) Abstract: An arrangement, control unit, and method in a cellular telecommunication system for allocating packets in a packet data stream to different base stations for transmission to a mobile terminal. The control unit receives the packet data stream in a main queue and identifies a plurality of base stations having sufficient signal strength to communicate with the mobile terminal. A data splitter splits the data stream into a number of sub-streams containing different data packets from the packet data stream. The sub-streams are buffered in a number of sub-queues, each of which is connected to a different base station. Packets are allocated to the sub-queues to maintain equal numbers of packets in each sub-queue, or to maintain a specified quality of service level for each sub-stream. The base stations independently transmit their sub-streams to the mobile terminal. Error-control coding may be applied to the packets to enhance macro diversity benefits.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE2007/050502

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

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: H04L, H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6067290 A (PAULRAJ, A ET AL), 23 May 2000 (23.05.2000), abstract --	1-24
A	WO 2006029790 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 23 March 2006 (23.03.2006), abstract --	1-24
A	EP 1294120 A1 (TEXAS INSTRUMENTS INCORPORATE), 19 March 2003 (19.03.2003), abstract --	11-13
A	WO 2006029790 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 23 March 2006 (23.03.2006), abstract -- -----	11-13

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

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

Date of the actual completion of the international search

24 January 2008

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Cited literature, if any, will be enclosed in paper form.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

29/12/2007

International application No.

PCT/SE2007/050502

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