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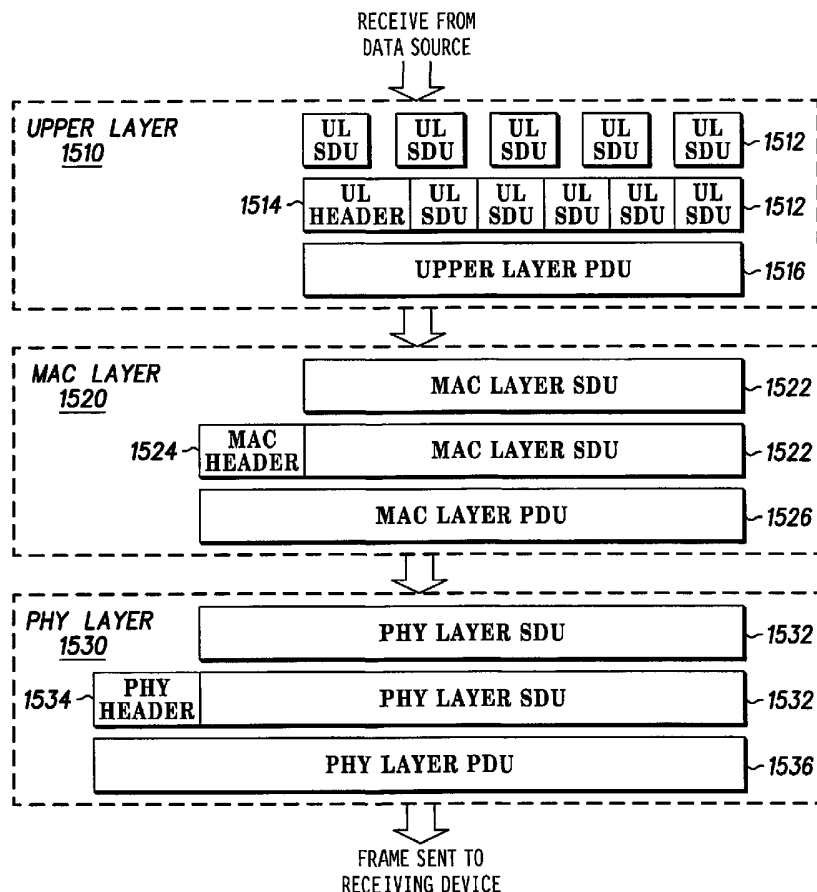
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR DYNAMIC AGGREGATION IN WIRELESS NETWORK



(57) Abstract: A method is provided for dynamically controlling aggregation in an ultrawide bandwidth wireless device (320). In this method, a device receives a plurality of intermediate service data units (720) at an intermediate layer (710), aggregates at least two of the plurality off intermediate service data units to form an intermediate protocol data unit (750), and sends the intermediate protocol data unit to a physical layer (110). The physical layer generates a data frame (1536) based on the intermediate protocol data unit and information corresponding to the physical layer, and transmits the data frame in a data stream. The device selects an intermediate size criteria for the data frame. The aggregating of the at least two of the plurality of intermediate layer service data units is performed such that an actual intermediate layer protocol data unit size corresponds to the intermediate size criteria.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03363

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 29/06

US CL : 370/395.6,470

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)

U.S. : 370/395.6,395.65,470-472,474,476

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 practicable, search terms used)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | US 5,278,834 A (MAZZOLA) 11 January 1994, column 2, lines 35-55 and column 4, lines 6-47. | 1-24 |
| Y | US 6,480,507 B1 (MERCER et al) 12 November 2002, column 2, line 63 to column 3, line 55. | 1-24 |

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

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search term: PDU, segment, fragment, MTU