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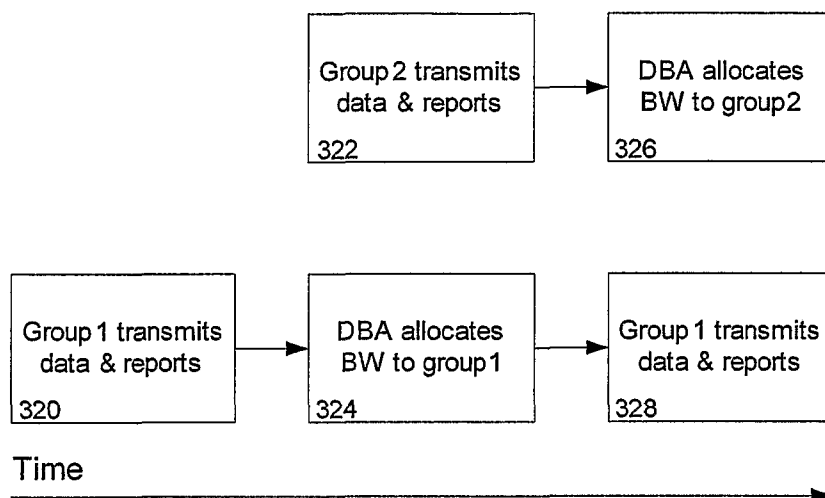
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(54) Title: DYNAMIC BANDWIDTH ALLOCATION BASED ON PARTIAL CYCLES



(57) Abstract: A method for dynamic bandwidth allocation (DBA) in a passive optical network (PON) comprises the steps of: in a configuration stage, dividing a predetermined grant cycle into N parts, dividing by an optical line terminal (OLT) a plurality of optical network units (ONUs) into N ONU groups and in each cycle part, concurrently allocating grants to ONUs of one ONU group while having the ONUs of at least one other ONU group send reports and data to the OLT. In a preferred embodiment, the cycle is divided into two fixed half cycles.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: G01R 31/08(2006.01);H04B 1/44(2006.01);H04J 3/02(2006.01) USPC: 370/236,282,462 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. : 370/236,282,462 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)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/105282 A2 (PASSAVE LTD.) 2 December 2004 (01.12.2004), Fig. 1 and 4.	1-18
A	US 2003/0048805 A1 (YOSHIHARA et al) 13 March 2003 (13.03.2003), Fig. 4, and para. [0061] and [0067].	1-18
A	US 2004/0052274 (WANG et al) 18 March 2004 (18.03.2004), para. [0008], [0011], [0024], [0026].	1-18
A	US 2005/0078682 (KIM et al) 14 April 2005 (14.04.2005), para. [0020], [0042], [0043], [0045], [0046], [0053].	1-18
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