

Title (en)

METHOD AND SYSTEM FOR DYNAMIC ALLOCATION OF BANDWIDTH IN ASYNCHRONOUS TRANSFER MODE (ATM) SWITCHING SYSTEMS

Title (de)

VERFAHREN UND SYSTEM ZUR DYNAMISCHEN BANDBREITENZUORDNUNG IN ATM-SCHALTSYSTEMEN

Title (fr)

PROCEDE ET SYSTEME PERMETTANT UNE ATTRIBUTION DYNAMIQUE DE LARGEURS DE BANDE DANS DES SYSTEMES DE COMMUTATION A MODE DE TRANSFERT ASYNCHRONE (MTA)

Publication

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Application

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Abstract (en)

[origin: WO9831156A2] The present invention is directed to a method and system for dynamically adjusting the total bandwidth that an asynchronous transfer mode (ATM) switching system can make available to Available Bit Rate (ABR) virtual circuits by determining the total bandwidth allocated to the inactive ABR virtual circuits in the switching system, and making available the bandwidth allocated to the inactive ABR virtual circuits to the active ABR virtual circuits in the switching system. When transmission of cells resumes for an inactive ABR virtual circuit, the switching system allocates new bandwidth to the virtual circuit. Furthermore, the switching system dynamically adjusts the total bandwidth that the switching system can make available to ABR virtual circuits by recomputing, at fixed time intervals, the total bandwidth that is available to the active ABR virtual circuits that are bottlenecked at the switching system.

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