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(54) Title: TELECOMMUNICATION NETWORK WITH IMPROVED ACCESS PROTOCOL			
The diagram illustrates a transmission system. At the top, a horizontal line represents a sequence of cells: D, S, P, S, P, S, P. Below this, a vertical line labeled 'U' (upstream) connects to a series of cells: CELL 2, CELL 4, two empty boxes, CELL 1, CELL 2, CELL 5, and CELL 0. A horizontal line labeled 'R' (request) connects the cells to the primary station (6) at the top. The primary station is connected via a medium (14) to secondary stations (30...40). The diagram also includes labels 80 and 82.			
(57) Abstract			
In a transmission system in which a plurality of secondary stations (30...40) is connected via a medium (14) to a primary station (6), it is required to have an upstream communication possibility. To provide an adequate service to the secondary stations, the upstream access protocol must have a high transmission efficiency, in particular under high load conditions. To obtain this, request transmit cells are used in which all secondary stations can submit a transmit request. The primary station transmits in response to the transmission request signal an allocation signal to enable the secondary stations to transmit their payload data. Direct after all payload data has been transmitted by the secondary stations, the next transmit request cell is available for transmit request signals.			