



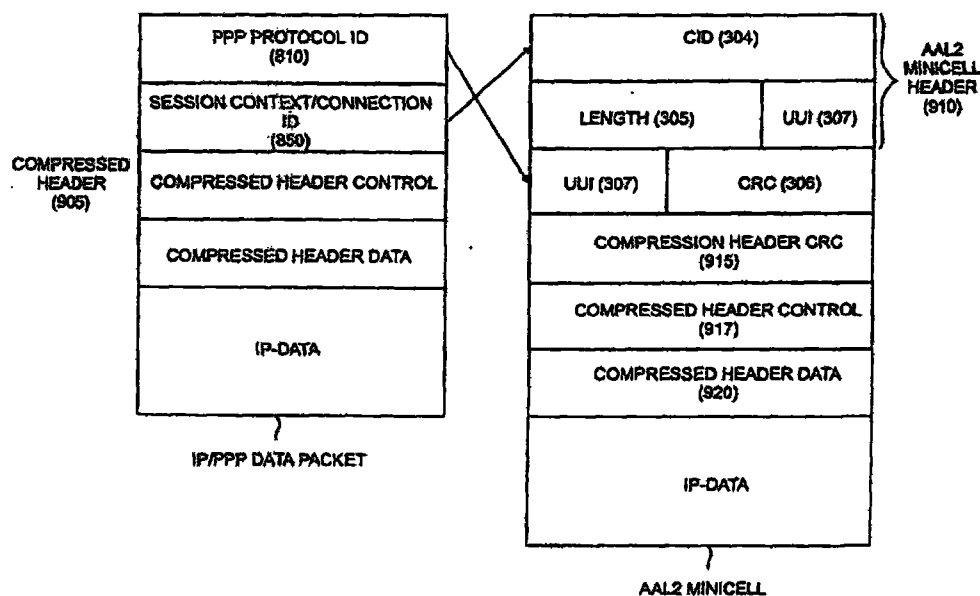
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(54) Title: EFFICIENT TRANSPORT OF INTERNET PROTOCOL PACKETS USING ASYNCHRONOUS TRANSFER MODE ADAPTATION LAYER TWO

**(57) Abstract**

The bandwidth utilization and transmission efficiency associated with the point-to-point transportation of internet protocol (IP) data packets in a network environment is improved by employing asynchronous transfer mode (ATM) adaptation layer two (AAL2) minicells as a bearer. Bandwidth utilization and transmission efficiency may be further enhanced by mapping one or more data fields from the header portion of the IP data packets into one or more look-up tables and then transporting the look-up table addresses in the AAL2 minicell headers rather than the data associated with the one or more data fields in the IP data packet headers.