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Petty

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(54) **APPARATUS AND METHOD TO COMPENSATE FOR UNSYNCHRONIZED TRANSMISSION OF SYNCHROUS DATA BY COUNTING LOW ENERGY SAMPLES**

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(57) **ABSTRACT**

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Maintaining a count of the number of samples below a predefined energy level that are in the sample queue. This count is then utilized by a circuit that is removing samples from the sample queue to determine which samples to delete in order to maintain a synchronous flow of data to a synchronous physical interface. The samples in the queue are being received from a packet switched network via a voice coder. A low energy detector is utilized to determine the energy level of samples before the samples are placed within the sample queue. This information is then utilized to maintain a counter for the circuit that is removing samples from the sample queue. Utilizing the contents of this counter, the circuit removing samples can determine which samples should be deleted of the ones that have a low energy.

(51) **Int. Cl.**

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H04J 3/07 (2006.01)
G06F 17/00 (2006.01)
G10L 11/06 (2006.01)

(52) **U.S. Cl.** **370/412; 370/505**

(58) **Field of Classification Search** 370/352, 370/503, 505, 412; 704/200, 211, 212, 215; 375/354, 359; 455/502, 13.2
See application file for complete search history.

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18 Claims, 14 Drawing Sheets

