

CLAIMS

1. A method comprising:
 - receiving a bit pattern that is representative of a binary data sequence;
 - generating a multi-bit data byte sequence that is representative of the bit pattern, wherein generating the multi-bit data byte sequence comprises, for each bit in the bit pattern: (i) outputting a multi-bit data byte that is larger than a current byte-sequencer reference data byte when the current bit in the bit pattern is of a first value, (ii) outputting a multi-bit data byte that is smaller than the current byte-sequencer reference data byte when the current bit in the bit pattern is of a second value, and (iii) updating the byte-sequencer reference data byte based on the currently output multi-bit data byte; and
 - providing the generated multi-bit data byte sequence to an audio codec that is configured to receive a sequence of multi-bit data bytes and responsively, for each received multi-bit data byte: (i) output, via a Bluetooth data link, a single bit whose value is indicative of whether the current received multi-bit data byte is larger or smaller than a current audio-codec reference data byte and (ii) update the current audio-codec reference data byte based on the current received multi-bit data byte.
2. The method of claim 1, wherein each bit in the binary data sequence is represented by a respective single bit in the bit pattern.
3. The method of claim 1, wherein each bit in the binary data sequence is represented by a string of multiple data bits in the bit pattern.
4. The method of claim 3, wherein the bit pattern comprises (i) strings of a first pattern of bits for each occurrence of a first logic value of the binary data sequence and (ii) strings of a second pattern of bits for each occurrence of a second logic value of the binary data sequence.
5. The method of claim 3, wherein the phase of the output of the audio codec is adjustable.
6. The method of claim 1, wherein the binary data sequence is encrypted audio data.
7. The method of any of the claim 1, wherein the audio codec performs a Continuously Variable Slope Delta (CVSD) conversion.

8. The method of claim 1, wherein generating the multi-bit data bytes sequence comprises outputting multi-bit data bytes at a first rate of 64kHz, and the audio codec outputs the single bits at a second rate of 64 kilobits per-second.
9. The method of claim 1, wherein the binary data sequence includes framing bits.
10. The method of claim 9, wherein the framing bits include a start bit and a stop bit.
11. The method of claim 1, wherein the binary data sequence includes parity bits.
12. The method of claim 1, wherein the Bluetooth link is configured according to a Hands Free Profile (HFP).