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(71) Applicant: **DOLBY LABORATORIES LICENSING CORPORATION** [US/US]; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US).

(72) Inventors: **VINTON, Mark, Stuart**; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US). **TRUMAN, Michael, Mead**; 100 Potrero Avenue, San Francisco, CA 94103-4813 (US).

(74) Agents: **LATHROP, David, N.** et al.; Gallagher & Lathrop, Suite 1111, 601 California Street, San Francisco, CA 94108-2805 (US).

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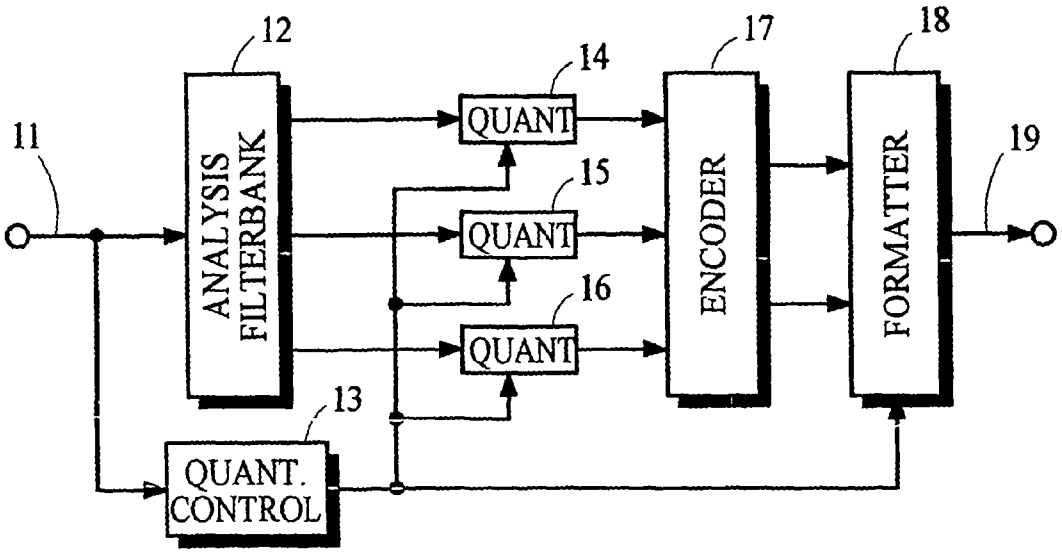
(54) Title: LOW BIT-RATE AUDIO CODING



(57) Abstract: The perceived quality of an audio signals obtained from very low bit-rate audio coding system is improved by using expanding quantizers and arithmetic coding in a transmitter and using complementary compression and arithmetic decoding in a receiver. An expanding quantizer is used to control the number of signal components that are quantized to zero and arithmetic coding is used to efficiently code the quantized-to-zero coefficients. This allows a wider bandwidth and more accurately quantized baseband signal to be conveyed to the receiver, which regenerates an output signal by synthesizing the missing components.

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