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(54) Title: CORRELATION-BASED METHOD FOR AMBIENCE EXTRACTION FROM TWO-CHANNEL AUDIO SIGNALS

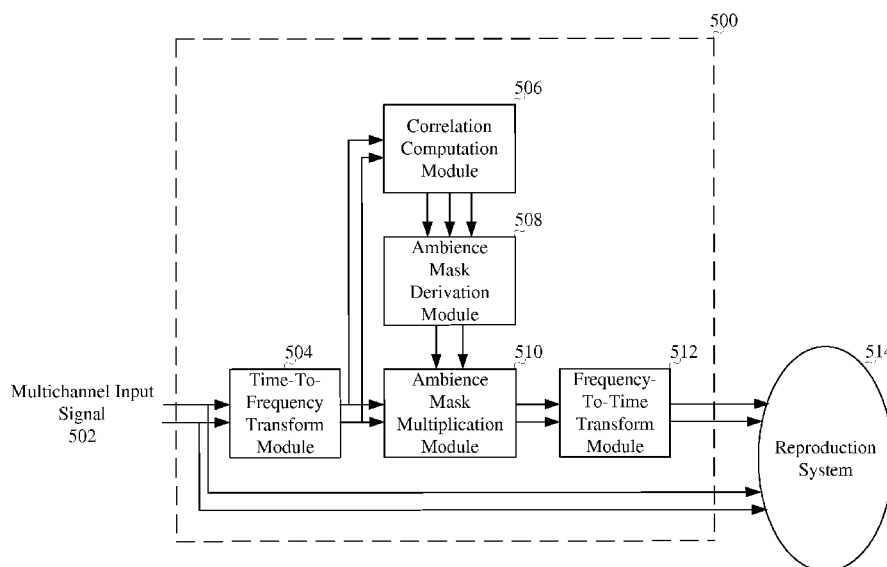


FIG. 5

(57) Abstract: A method of ambience extraction includes analyzing an input signal to determine the time-dependent and frequency-dependent amount of ambience in the input signal, wherein the amount of ambience is determined based on a signal model and correlation quantities computed from the input signals and wherein the ambience is extracted using a multiplicative time-frequency mask. Another method of ambience extraction includes compensating a bias in the estimation of a short-term cross-correlation coefficient. In addition, systems having various modules for implementing the above methods are disclosed.

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