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(71) Applicant (for all designated States except US): **CREATIVE TECHNOLOGY LTD** [SG/SG]; 31 International Business Park, Creative Resource, Singapore 609921 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MERIMAA, Juha O.** [FI/US]; 945 Crane Street, Apt. F, Menlo Park, California 94025 (US). **GOODWIN, Michael M.** [US/US]; 137 Navigator Drive, Scotts Valley, California 95066 (US). **JOT, Jean-Marc** [FR/US]; 327 Doris Avenue, Aptos, California 95003 (US).

(74) Agent: **GEAN, Desmond**; Creative Labs, Inc., 1901 McCarthy Blvd., Milpitas, California 95035 (US).

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

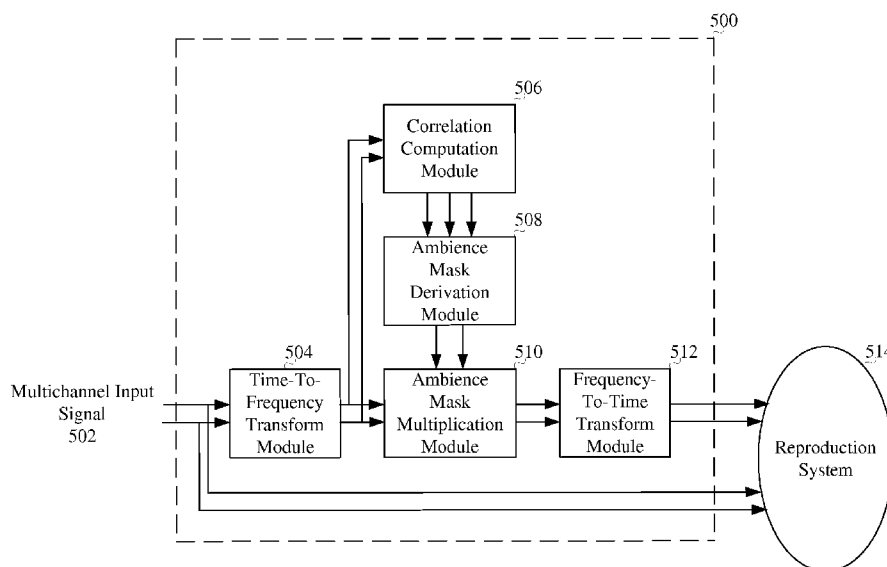


FIG. 5

(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.