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press@lautenaudio.com

1-877-271-7018

Dr. Charles Chen Ph.D. and Lauten Audio file for a new patent

Invention allows for a balanced output directly from the condenser capsule

San Jose, CA — June 6, 2011 — Lauten Audio and Dr. Charles Chen Ph.D. filed for a new patent related to microphone capsule biasing. The invention relates to an innovative double-bias circuit for condenser microphone capsules that generates a balanced output directly from a condenser capsule without the need for a phase splitter or transformer in the circuit path.

“For the traditional single bias circuit, only one signal is retrieved from the capsule. To generate two balanced signals from the single signal, the options are to use an output transformer, or a phase-splitter circuit in the case of a transformer-less design. The problem is these types of phase splitter circuits restrict the dynamic range allowed,” said Dr. Chen.

Dr. Chen’s double-bias invention allows for a balanced output directly from the condenser capsule, so no output transformer or phase-splitter stage is needed. Current splitter circuits result in distortion or clipping of the two output signals, negatively affecting the dynamic range. Chen’s new double bias circuit overcomes this shortcoming.

Lauten Audio plans to implement the new invention into future models of condenser microphones.

About Lauten Audio

Lauten Audio is a high-end microphone manufacturer formed by professionals with diverse backgrounds ranging from microphone design, physics, recording engineering, and manufacturing. The company’s philosophy is to create original, high-quality microphones that empower recordists at all levels. Lauten Audio’s microphones have received exceptional reviews and rewards around the world. Lauten Audio is located in San Jose California, for more information visit <http://www.lautenaudio.com> or call 1-877-721-7018.