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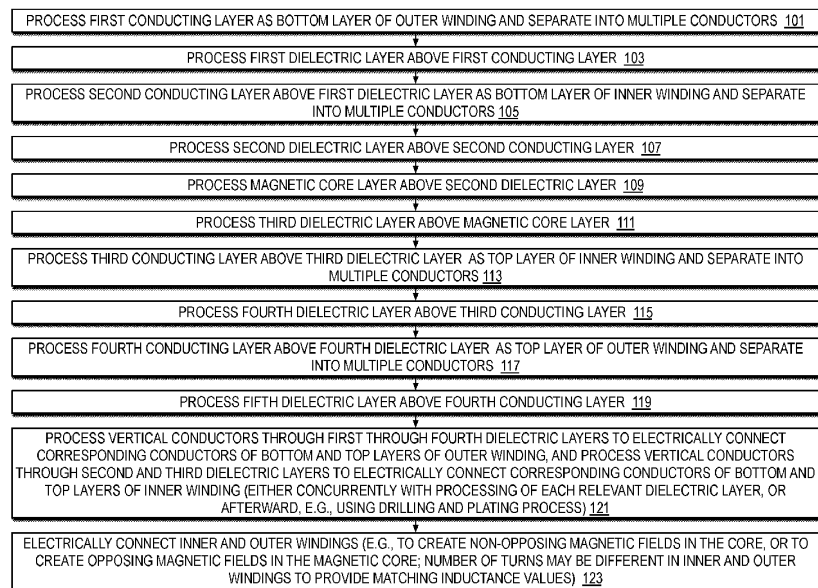
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- (71) **Applicant:** CIRRUS LOGIC INTERNATIONAL SEMICONDUCTOR LTD. [GB/GB]; 7B Nightingale Way, Quartermile, Edinburgh EH3 9EG (GB).
- (72) **Inventors:** KHENKIN, Aleksey S.; 800 W. 6th Street, Austin, TX 78701 (US). PATTEN, David; 800 W. 6th Street, Austin, TX 78701 (US). YAN, Jun; 800 W. 6th Street, Austin, TX 78701 (US).
- (74) **Agent:** DAVIS, E. Alan et al.; Huffman Law Group, PC, 191 Coyote Willow Drive, Colorado Springs, CO 80921 (US).
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(54) **Title:** LAYERED PROCESS-CONSTRUCTED DOUBLE-WINDING EMBEDDED SOLENOID INDUCTOR



(57) **Abstract:** A method for constructing a solenoid inductor includes positioning an inner winding substantially around a magnetic core, positioning an outer winding substantially around the inner winding, and using a layered process to perform said positioning the inner and outer windings. The layered process includes processing a first conducting layer as a bottom layer of the outer winding, above processing a first dielectric layer, above processing a second conducting layer as a bottom layer of the inner winding, above processing a second dielectric layer, above processing a magnetic core layer, above processing a third dielectric layer, above processing a third conducting layer as a top layer of the inner winding, above processing a fourth dielectric layer, above processing a fourth conducting layer as a top layer of the outer winding, above processing a fifth dielectric layer, and the inner and outer windings are electrically connected.

[Continued on next page]

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