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85248 (US). **WOOD, Dustin** [US/US]; 731 E Jasper Drive, Chandler, Arizona 85225 (US).

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(74) Agents: **VINCENT, Lester J.** et al.; BLAKELY SOKOLOFF TAYLOR & ZAFMAN, 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025 (US).

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(71) Applicant (for all designated States except US): **INTEL CORPORATION** [US/US]; 2200 Mission College Boulevard, Santa Clara, California 95052 (US).

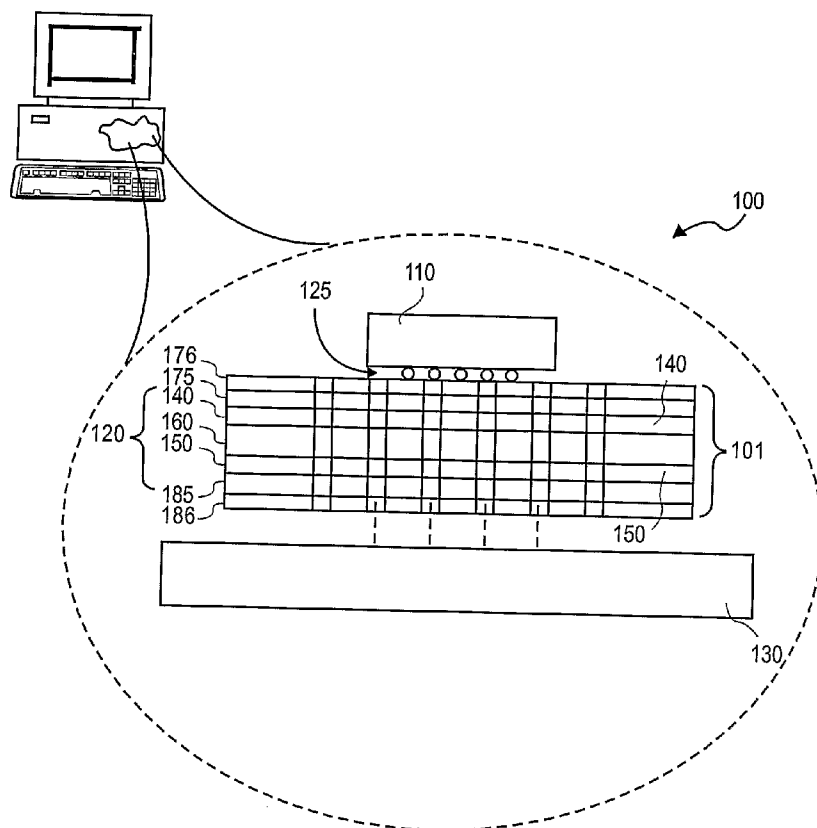
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(72) Inventors; and
(75) Inventors/Applicants (for US only): **PALANDUZ, Cengiz** [TR/US]; 281 W. Roadrunner Dr, Chandler, Arizona

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(54) Title: ITFC WITH OPTIMIZED C(T)



(57) Abstract: A method including depositing a suspension of a colloid comprising an amount of nano-particles of a ceramic material on a substrate; and thermally treating the suspension to form a thin film. A method including depositing a plurality of nano-particles of a ceramic material to pre-determined locations across a surface of a substrate; and thermally treating the plurality of nano-particles to form a thin film. A system including a computing device comprising a microprocessor, the microprocessor coupled to a printed circuit board through a substrate, the substrate comprising at least one capacitor structure formed on a surface, the capacitor structure comprising a first electrode, a second electrode, and a ceramic material disposed between the first electrode and the second electrode, wherein the ceramic material comprises columnar grains.



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