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(71) Applicant: **INTEL CORPORATION** [US/US]; (a Delaware Corporation), 2200 Mission College Boulevard, Santa Clara, CA 95052 (US).

(72) Inventors: **CHENG, Peng**; 4140 Acapulco Drive, Campbell, CA 95008 (US). **MA, Qing**; 919 Brentwood Drive, San Jose, CA 95129 (US).

(74) Agents: **MALLIE, Michael, J.** et al.; Blakely, Sokoloff, Taylor & Zafman LLP, 12400 Wilshire Boulevard, 7th Floor, Los Angeles, CA 90025 (US).

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(54) Title: CENTER-MASS-REDUCED MICROBRIDGE STRUCTURES FOR ULTRA-HIGH FREQUENCY MEM RESONATOR

(57) Abstract: A micro-electromechanical (MEM) resonator is described that includes a substrate, a microbridge beam structure coupled to the substrate and at least one electrode disposed adjacent to the microbridge beam structure to induce vibration of the beam. The microbridge beam structure includes support sections and a beam formed between the support sections. The center region of the beam has a mass that is less than the mass of regions of the beam adjacent to the support sections.