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(54) **Title:** MICRO -AND NANOSCALE CAPACITORS THAT INCORPORATE AN ARRAY OF CONDUCTIVE ELEMENTS HAVING ELONGATED BODIES

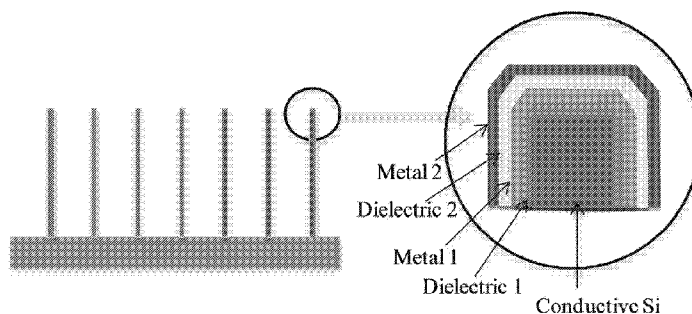


FIG. 6

(57) **Abstract:** Systems and methods in accordance with embodiments of the invention implement micro- and nanoscale capacitors that incorporate a conductive element that conforms to the shape of an array elongated bodies. In one embodiment, a capacitor that incorporates a conductive element that conforms to the shape of an array of elongated bodies includes: a first conductive element that conforms to the shape of an array of elongated bodies; a second conductive element that conforms to the shape of an array of elongated bodies; and a dielectric material disposed in between the first conductive element and the second conductive element, and thereby physically separates them.