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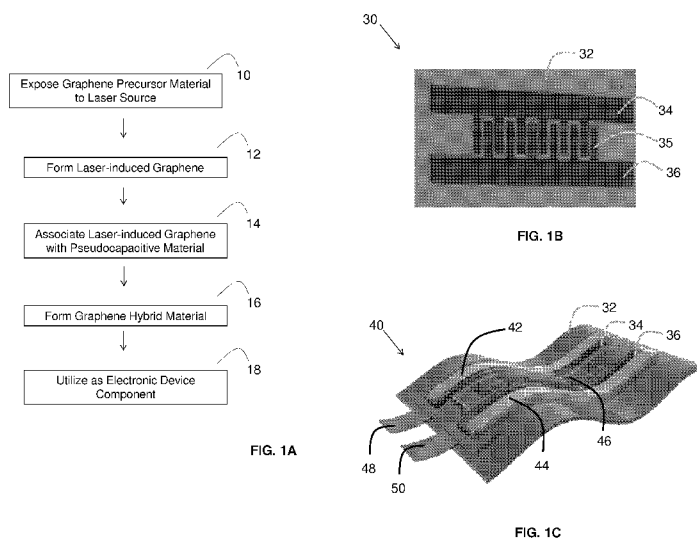
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(54) **Title:** LASER INDUCED GRAPHENE HYBRID MATERIALS FOR ELECTRONIC DEVICES



(57) **Abstract:** In some embodiments, the present disclosure pertains to methods of producing a graphene hybrid material by exposing a graphene precursor material to a laser source to form a laser-induced graphene, where the laser-induced graphene is derived from the graphene precursor material. The methods of the present disclosure also include a step of associating a pseudocapacitive material (e.g., a conducting polymer or a metal oxide) with the laser-induced graphene to form the graphene hybrid material. The formed graphene hybrid material can become embedded with or separated from the graphene precursor material. The graphene hybrid materials can also be utilized as components of an electronic device, such as electrodes in a microsupercapacitor. Additional embodiments of the present disclosure pertain to the aforementioned graphene hybrid materials and electronic devices.