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(54) Title: QUINONE RADICALS FOR ENRICHING SPECIFIC SPECIES OF CARBON NANOTUBES

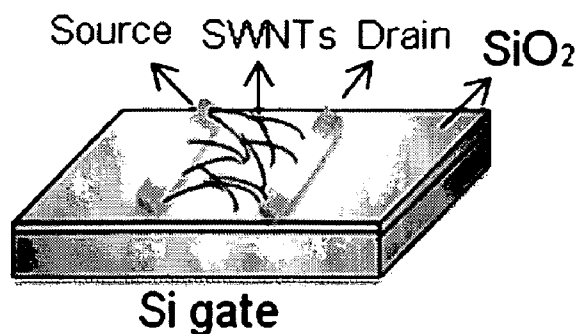


FIG. 5(a)

(57) Abstract: The present invention is directed to a method for enriching specific species of carbon nanotubes, comprising contacting a composition of carbon nanotubes with one or more quinone compounds, reacting the carbon nanotubes with the quinone compounds, and separating the carbon nanotubes reacted with the quinone compounds from the unreacted carbon nanotubes. The present invention is also directed to a field-effect transistor comprising a semiconducting single-walled carbon nanotube enriched using a method described herein.