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(54) Title: A PHOTONIC CRYSTAL FIBER SENSOR

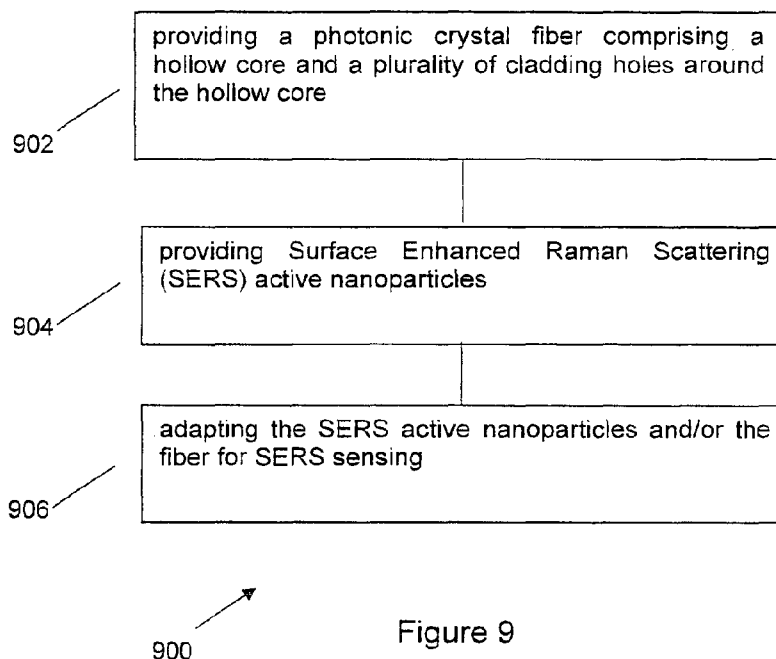


Figure 9

(57) Abstract: A method for sensing, a photonic crystal fiber, a method for fabricating a photonic crystal fiber sensor, and a Surface Enhanced Raman Scattering (SERS) sensing apparatus. The method for sensing comprises the steps of providing a photonic crystal fiber comprising a hollow core and a plurality of cladding holes around the hollow core; providing Surface Enhanced Raman Scattering (SERS) active nanoparticles; and adapting the SERS active nanoparticles and/or the fiber for SERS sensing.



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