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(54) **Title: IMPLANTABLE LIGHT DELIVERY DEVICE**

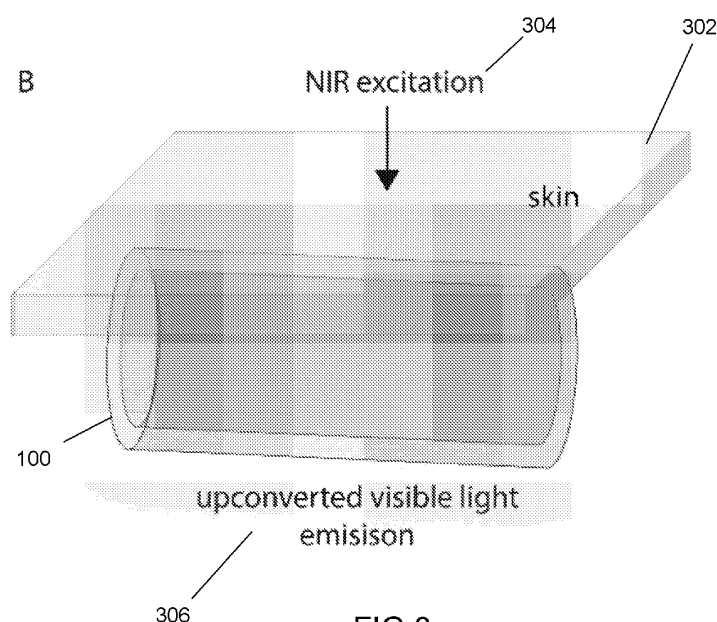


FIG.3

(57) **Abstract:** An implantable light delivery device comprises: a core portion cladded in a cladding, the core portion comprising up-conversion nano-particles (UCNPs) encapsulated in an encapsulation material. The implantable light delivery device may be used in treatments such as photodynamic therapy to provide an emission of light at a wavelength configured by the selection of UCNPs. The encapsulation material may comprise hydrogel and the cladding may comprise fluorinated ethylene propylene.



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