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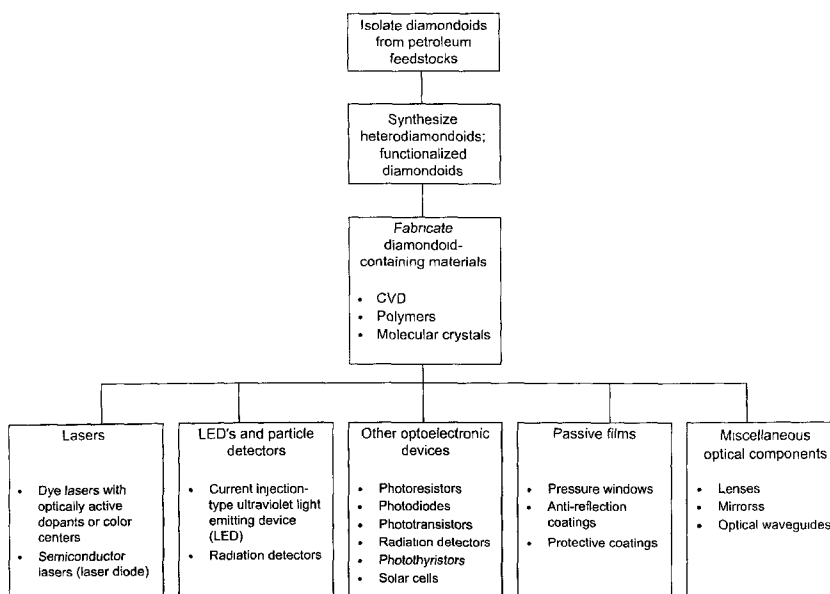
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(54) Title: OPTICAL USES OF DIAMONDROID-CONTAINING MATERIALS



(57) **Abstract:** Novel optical devices based on diamondoid-containing materials are disclosed. Materials that may be fabricated from diamondoids include diamondoid nucleated CVD films, diamondoid-containing CVD films, molecular crystals, and polymerized materials. Devices that may be fabricated from the diamondoid-containing materials disclosed herein include solid state dye lasers, semiconductor lasers, light emitting diodes, photodetectors, photoresistors, phototransistors, photovoltaic cells, solar cells, anti-reflection coatings, lenses, mirrors, pressure windows, optical waveguides, and particle and radiation detectors.



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