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(71) Applicant (for all designated States except US):
AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YING, Jackie, Y.** [US/SG]; 31 Toh Avenue, Singapore 508056 (SG). **ZHENG, Yuangang** [CN/SG]; 51 Mount Sinai Drive, #06-03, Ridgewood Condominium, Singapore 277107 (SG). **GAO, Shujun** [CN/SG]; Blk 712, Clementi West Street 2, #03-181, Singapore 120712 (SG).

(74) Agent: **YU SARN AUDREY & PARTNERS**; 190 Middle Road, #12-04, Singapore 188979 (SG).

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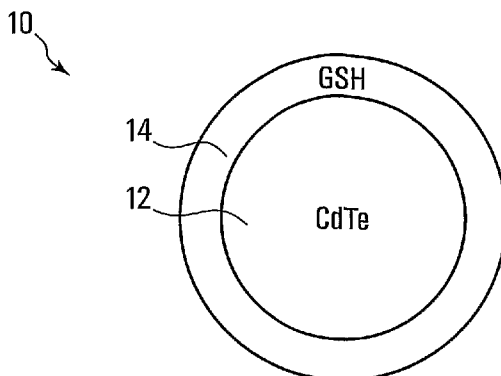
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CDTE/GSH CORE-SHELL QUANTUM DOTS



(57) Abstract: Quantum dots, each having a core comprising CdTe and a shell comprising GSH covering the core, are provided. The Quantum dots can be formed in a solution comprising a telluride (Te) precursor and a cadmium (Cd) precursor for forming the cores, and glutathione (GSH) for forming shells covering the cores. The cores can comprise CdTe nanocrystals grown in the solution. The growth of the nanocrystals can be limited. The quantum dots can have high fluorescence emission quantum yield such as up to about 45%, and small sizes such as from about 3.8 nm to about 6 nm.

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