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AAPMEDIA RELEASE PR57619 Quantum Materials Acquires Bayer Technology Services Quantum Dot Manufacturing and Quantum Dot **Solar** Cell Patents

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**TD**

Bayer Patent Families Expand Quantum Materials' Advanced Material

Offerings, Reinforce Intellectual **Property** Protection of Automated

Quantum Dot Manufacturing Processes and Enhance Quantum Dot **Solar**

Cell IP to Drive Future Development, Partnerships and Revenue

Quantum Materials Corporation (OTCQB:QTMM) today announced the **purchase** of five diverse sets of patent families from Bayer Technology Services GmbH, the global technological backbone and major innovation driver for Bayer AG of Leverkusen, Germany.

Logo - <http://photos.prnewswire.com/prnh/20140619/119488>

The patents acquired provide broad intellectual **property** protection for advances Quantum Materials (<http://www.qmcdots.com>) has achieved in economical high-volume quantum dot (QD) manufacturing. In addition, the Bayer patents cover volume production technology for heavy metal-free (HMF) quantum dots and nano-particles; increasing quantum yields for HMF quantum dots; and hybrid organic quantum dot **solar** cell (<http://www.qmcdots.com/products/products-solar.php>) (QDSC) production as well as a surface modification process for increased efficiency of high performance **solar** cells and printed electronics. The patent families were acquired through a cash **purchase** agreement and financial details will remain private.

"We acquired these patents to not only expand our technology portfolio in heavy metal-free and QDSC production, but also to protect the advances we have made to date in the volume manufacturing of nanoparticles, including quantum dots," said Stephen Squires, Quantum Materials CEO and president. "Bayer is a research pioneer in the nanotech and QD fields and these early filings were awarded with broad claims. It will be very difficult for competitors to produce materials in volume similar to ours without breaching our patents."

"Bayer Technology Services has been successfully working in the field of nanotechnology for more than 30 years. We are very happy that Quantum Materials is also using our patents to invest into new markets Bayer is not focusing on," adds Dr. Guenter Bachlechner, Head of Technology Development and Senior Vice President of Bayer Technology Services GmbH.

The quantum dot-related patents extend Quantum Materials' ability to synthesize numerous heavy metal-free organic periodic table groups in addition to its own inorganic **Group** II-VI composites. The **company** intends to incorporate each patent into its advanced production processes, including high yield InP/ZnS nanocrystals, a heavily researched QD in high demand in optoelectronics.

The **solar**-related patents describe the fundamental design of quantum dot **solar** cells and processes for optimizing quantum dots for **solar** and other printed electronics applications. The **solar** patents enhance Quantum Material's licensed patent on printing OLED and QD **solar** cells and other printed electronic devices by gravure or high-speed roll-to-roll.

David Doderer, Quantum Materials VP of Research and Development, added, "The heavy metal-free organic nanomaterials expand our high performance product offerings, and the automated processes will bring down their cost so manufacturers can begin planning adoption into real products at price points that expand market penetration of quantum dot technologies significantly. Combining the **solar** patents with our automated volume QD production process opens the door for us to establish joint ventures for Quantum Dot **Solar** Cell (QDSC) pilot plants worldwide."

#### About Bayer Technology Services

Bayer Technology Services offers fully-integrated solutions along the life cycle of chemical/pharmaceutical plants from development through engineering and construction to process optimization for existing plants. The Bayer subsidiary employs nearly 2,300 people worldwide at its headquarters in Leverkusen and other German locations, as well as in regional offices in Belgium, Brazil, Canada, India, Mexico, the People's Republic of **China**, Russia, Singapore and the United States. 2013 sales totaled approximately EUR 470 **million**. Additional information about Bayer Technology Services is available at [www.bayertechnology.com](http://www.bayertechnology.com).

#### About Quantum Materials Corp.

Quantum Materials Corp. develops and manufactures Tetrapod Quantum Dots for use in medical, display, **solar energy** and lighting applications through its patent-pending volume production process. QMC's volume manufacturing methods enable consistent quality and scalable cost reductions to drive innovative discovery to **commercial** success. ([www.qmcdots.com](http://www.qmcdots.com)). Wholly-owned subsidiary Solterra Renewable Technologies develops sustainable **solar** technology by replacing silicon wafer-based **solar** cells with high-production, low-cost, efficient and flexible thin-film quantum dot **solar** cells. (<http://solterrarenewable.com>)

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