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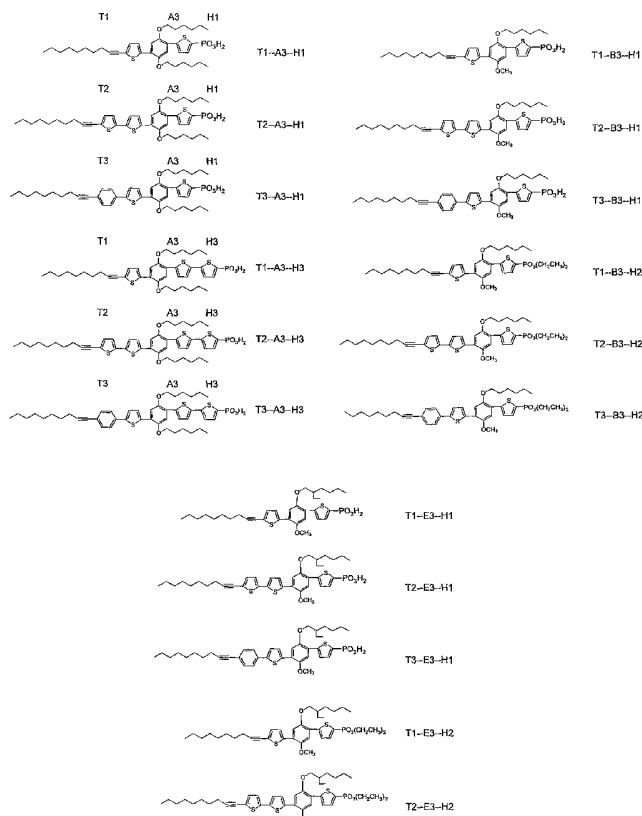
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[Continued on next page]

(54) Title: ORGANIC SPECIES THAT FACILITATE CHARGE TRANSFER TO OR FROM NANOSTRUCTURES



(57) Abstract: The present invention provides com-  
positions (small molecules, oligomers and polymers)  
that can be used to modify charge transport across a  
nanocrystal surface or within a nanocrystal-contain-  
ing matrix, as well as methods for making and using  
the novel compositions.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27847

**A. CLASSIFICATION OF SUBJECT MATTER**

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US CL : 252/301.16, 301.4R, 301.36, 511; 428/403, 690; 136/252, 263, 265

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	Greenham et al, "Charge separation and transport in conjugated-polymer/semiconductor-nanocrystal composites studied by photoluminescence quenching and photoconductivity," Physical Review B 1996, 54(4), pages 17628-17637. Figure-1., Page 17629.	1-4, 6, 7-16, 18-20, 24-26, 33, 35-36 ----- 5, 17, 34, 67, 71, 103-104
X --- Y	US 2002/0010645 A1 (SHELNUT et al) 15 August 2002 (15.08.2002), Page-2, Section 0016; Page 4, Sections 0034-0035, 0038, 0040-0044; Page-5, Sections 0045-0046, 0053.	1-3, 5-9, 24-25 ----- 21,
P, X	US 6,649,138 B2 (ADAMS et al) 18 November 2003 (18.11.2003)	1-31 and 33-36



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