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- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
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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: PREPARATION OF NANOCRYSTALLITES

(57) Abstract: A method of manufacturing a nanocrystallite from a M-containing slat forms a nanocrystallite. The nanocrystallite can be a member of a population of nanocrystallites having a narrow size distribution and can include one or more semiconductor materials. Semiconducting nanocrystallites can photoluminesce and can have high emission quantum efficiencies.

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## INTERNATIONAL SEARCH REPORT

International application No.  
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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :B32B 5/16; C01F 1/00; C01G 9/00, 28/00

US CL :423/87, 99, 111, 155; 428/403

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)

U.S. : 423/87, 99, 111, 155; 428/403

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)

WEST 2.0

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X         | US 5,505,928 A (ALIVISATOS et al) 09 April, 1996, col. 3, lines 12-44 and example 1   | 1-26                  |
| X         | US 6,179,912 B1 (BARBERA-GUILLEM et al), 30 January 2001, col. 7, lines 2-4 & 11-50, col. 8, lines 18-20, col. 14, lines 38-42. | 1-26                  |
| X         | US 6,262,129 B1 (MURRAY et al. ) 17July 2001, entire document.  | 1-26                  |
| X,E       | WO 01/07689 A2 (MIKULEC et al), 1 February 2001, entire document.   | 1-26                  |



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| "P" | document published prior to the international filing date but later than the priority date claimed  |     |  |

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