

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### MICROSTRUCTURAL TECHNOLOGY; NANOTECHNOLOGY

#### B82 NANOTECHNOLOGY

(NOTE omitted)

#### B82Y SPECIFIC USES OR APPLICATIONS OF NANOSTRUCTURES; MEASUREMENT OR ANALYSIS OF NANOSTRUCTURES; MANUFACTURE OR TREATMENT OF NANOSTRUCTURES

##### NOTES

1. This subclass covers applications and aspects of nanostructures which are produced by any method, and is not restricted to those that are formed by manipulation of individual atoms or molecules.
2. Attention is drawn to the Note following the title of class [B82](#), which defines the meaning of the terms "nanosize", "nanoscale" and "nanostructure" in this subclass.
3. This subclass is intended to enable a comprehensive search of subject matter related to nanostructures by combination of classification symbols of this subclass with classification symbols from other subclasses. Therefore this subclass covers aspects of nanostructures that might also be entirely or partially covered elsewhere in the IPC.
4. This subclass is for secondary classification, i.e. obligatory supplementary classification of subject matter already classified as such in other classification places, e.g. :
 

<a href="#">B82B</a>  <a href="#">A61K 9/51</a> <a href="#">B05D 1/20</a> <a href="#">C01B 32/05</a> <a href="#">G01Q</a> <a href="#">G02F 1/017</a> <a href="#">H01F 10/32</a> <a href="#">H01F 41/30</a> <a href="#">H01L 29/775</a>	Nanostructures formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof Nanocapsules for medicinal preparations Langmuir-Blodgett films Carbon nanostructures, e.g. bucky-balls, nanotubes, nanocoils, nanodoughnuts or nanooxions Scanning probe techniques Optical quantum wells or boxes Nanostructured thin magnetic films Molecular beam epitaxy [MBE] Quantum wire FETs
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5. The classification symbols of this subclass are not listed first when assigned to patent documents.

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| 5/00  | Nanobiotechnology or nanomedicine, e.g. protein engineering or drug delivery  |
| 10/00 | Nanotechnology for information processing, storage or transmission, e.g. quantum computing or single electron logic         |
| 15/00 | Nanotechnology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors    |
| 20/00 | Nanooptics, e.g. quantum optics or photonic crystals  |
| 25/00 | Nanomagnetism, e.g. magnetoimpedance, anisotropic magnetoresistance, giant magnetoresistance or tunneling magnetoresistance |
| 30/00 | Nanotechnology for materials or surface science, e.g. nanocomposites  |
| 35/00 | Methods or apparatus for measurement or analysis of nanostructures  |
| 40/00 | Manufacture or treatment of nanostructures  |
| 99/00 | Subject matter not provided for in other groups of this subclass  |