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 <u>covers</u> 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 <u>covers</u> 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. :

B82B	Nanostructures formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof
A61K 9/51	Nanocapsules for medicinal preparations
B05D 1/20	Langmuir-Blodgett films
C01B 32/05	Carbon nanostructures, e.g. bucky-balls, nanotubes, nanocoils, nanodoughnuts or nanoonions
G01Q	Scanning probe techniques
G02F 1/017	Optical quantum wells or boxes
H01F 10/32	Nanostructured thin magnetic films
H01F 41/30	Molecular beam epitaxy [MBE]
H10D 30/43	Quantum wire FETs

5. The classification symbols of this subclass are not listed first when assigned to patent documents.

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**