

B82 NANO-TECHNOLOGY [7,8]**B82Y SPECIFIC USES OR APPLICATIONS OF NANO-STRUCTURES; MEASUREMENT OR ANALYSIS OF NANO-STRUCTURES; MANUFACTURE OR TREATMENT OF NANO-STRUCTURES [2011.01]**

- (1) This subclass covers applications and aspects of nano-structures 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 “nano-size”, “nano-scale” and “nano-structure” in this subclass.
- (3) This subclass is intended to enable a comprehensive search of subject matter related to nano-structures by combination of classification symbols of this subclass with classification symbols from other subclasses. Therefore this subclass covers aspects of nano-structures that might also be entirely or partially covered elsewhere in the IPC.
- (4) This subclass is for obligatory supplementary classification of subject matter already classified as such in other classification places, e.g.:
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|------|--------|---|
| B82B | | Nano-structures formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof |
| A61K | 9/51 | Nano-capsules for medicinal preparations |
| B05D | 1/20 | Langmuir-Blodgett films |
| C01B | 31/02 | Carbon nano-structures, e.g. bucky-balls, nanotubes, nanocoils, nano-doughnuts or nano-onions |
| G01Q | | Scanning probe techniques |
| G02F | 1/017 | Optical quantum wells or boxes |
| H01F | 10/32 | Nano-structured thin magnetic films |
| H01F | 41/30 | Molecular beam epitaxy [MBE] |
| H01L | 29/775 | Quantum wire FETs |
- (5) The classification symbols of this subclass are not listed first when assigned to patent documents.
- (6) In this subclass, multi-aspects classification is applied, so that aspects of subject matter that are covered by more than one of its groups should be classified in each of those groups.

5/00	Nano-biotechnology or nano-medicine, e.g. protein engineering or drug delivery [2011.01]	25/00	Nano-magnetism, e.g. magnetoimpedance, anisotropic magnetoresistance, giant magnetoresistance or tunneling magnetoresistance [2011.01]
10/00	Nano-technology for information processing, storage or transmission, e.g. quantum computing or single electron logic [2011.01]	30/00	Nano-technology for materials or surface science, e.g. nano-composites [2011.01]
15/00	Nano-technology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors [2011.01]	35/00	Methods or apparatus for measurement or analysis of nano-structures [2011.01]
20/00	Nano-optics, e.g. quantum optics or photonic crystals [2011.01]	40/00	Manufacture or treatment of nano-structures [2011.01]
		99/00	Subject matter not provided for in other groups of this subclass [2011.01]