

**CPC****COOPERATIVE PATENT CLASSIFICATION****B82B****NANO-STRUCTURES FORMED BY MANIPULATION OF INDIVIDUAL ATOMS, MOLECULES, OR LIMITED COLLECTIONS OF ATOMS OR MOLECULES AS DISCRETE UNITS; MANUFACTURE OR TREATMENT THEREOF****NOTE**

1. This subclass does not cover chemical or biological nano-structures per se, provided for elsewhere, e.g. in classes [C08](#) or [C12](#).
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. Subject matter classified in this subclass is further classified in subclass [B82Y](#), in order to enable a comprehensive search of nano-structure technology using classification symbols of [B82Y](#) in combination with classification symbols of [B82B](#).
4. Nano-structures having specialised features or functions are further classified in appropriate places in other subclasses that provide for those features or functions, e.g. in [G01Q](#), [G02F 1/017](#), [H01L 29/775](#).

**B82B 1/00****Nano-structures formed by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units**

- [B82B 1/001](#) . {Devices without movable or flexible elements}
- [B82B 1/002](#) . {Devices comprising flexible or deformable elements}
- [B82B 1/003](#) . {Devices comprising elements which are movable in relation to each other, e.g. slidable or rotatable}
- [B82B 1/005](#) . {Constitution or structural means for improving the physical properties of a device}
- [B82B 1/006](#) . {Controlling the movement of the flexible or movable, e.g. slidable or rotatable, elements}
- [B82B 1/007](#) . {Processes for preserving or protecting existing structures}
- [B82B 1/008](#) . {Nano-structures not provided for in groups [B82B 1/001](#) to [B82B 1/007](#)}

**B82B 3/00****Manufacture or treatment of nano-structures by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units**

- [B82B 3/0004](#) . {Apparatus specially adapted for the manufacture or treatment of nano-structural devices or systems or methods for manufacturing the same}
- [B82B 3/0009](#) . {Forming specific nano-structures}
- [B82B 3/0014](#) . . {Array or network of similar nano-structural elements}
- [B82B 3/0019](#) . . {without movable or flexible elements}
- [B82B 3/0023](#) . . {comprising flexible or deformable elements}
- [B82B 3/0028](#) . . {comprising elements which are movable in relation to each other, e.g. slidable or rotatable}

- B82B 3/0033
  - .. {Manufacture or treatment of substrate-free structures, i.e. not connected to any support}
- B82B 3/0038
  - .. {Manufacturing processes for forming specific nano-structures not provided for in groups [B82B 3/0014](#) to [B82B 3/0033](#)}
- B82B 3/0042
  - . {Assembling discrete nano-structures into nano-structural devices}
- B82B 3/0047
  - .. {Bonding two or more elements}
- B82B 3/0052
  - .. {Aligning two or more elements}
- B82B 3/0057
  - .. {Processes for assembling discrete nano-structures not provided for in groups [B82B 3/0047](#) to [B82B 3/0052](#)}
- B82B 3/0061
  - . {Methods for manipulating nanostructures}
- B82B 3/0066
  - .. {Orienting nanostructures}
- B82B 3/0071
  - .. {Sorting nanostructures}
- B82B 3/0076
  - .. {Methods for manipulating nanostructures not provided for in groups [B82B 3/0066](#) to [B82B 3/0071](#)}
- B82B 3/008
  - . {Processes for improving the physical properties of a device}
- B82B 3/0085
  - . {Testing nano-structures}
- B82B 3/009
  - . {Characterizing nano-structures, i.e. measuring and identifying electrical or mechanical constants}
- B82B 3/0095
  - . {Manufacture or treatments or nano-structures not provided for in groups [B82B 3/0009](#) to [B82B 3/009](#)}