

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**

This subclass does not cover chemical or biological nano-structures per se, provided for elsewhere, e.g. in classes C08 or C12.

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.

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.

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 of nano-structures not provided for in groups [B82B 3/0009](#) to [B82B 3/009](#)}