

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