

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING (NOTES omitted)

### MICROSTRUCTURAL TECHNOLOGY; NANOTECHNOLOGY

#### B82 NANOTECHNOLOGY (NOTE omitted)

#### B82B NANOSTRUCTURES FORMED BY MANIPULATION OF INDIVIDUAL ATOMS, MOLECULES, OR LIMITED COLLECTIONS OF ATOMS OR MOLECULES AS DISCRETE UNITS; MANUFACTURE OR TREATMENT THEREOF

##### NOTES

1. This subclass does not cover chemical or biological nanostructures 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 "nanosize", "nanoscale" and "nanostructure" in this subclass.
3. Subject matter classified in this subclass is further classified in subclass [B82Y](#), in order to enable a comprehensive search of nanostructure technology using classification symbols of [B82Y](#) in combination with classification symbols of [B82B](#).
4. Nanostructures 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](#).

<b>1/00</b>	<b>Nanostructures formed by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units</b>	3/0042	. {Assembling discrete nanostructures into nanostructural devices}
1/001	. {Devices without movable or flexible elements}	3/0047	. . {Bonding two or more elements}
1/002	. {Devices comprising flexible or deformable elements}	3/0052	. . {Aligning two or more elements}
1/003	. {Devices comprising elements which are movable in relation to each other, e.g. slidable or rotatable}	3/0057	. . {Processes for assembling discrete nanostructures not provided for in groups <a href="#">B82B 3/0047</a> - <a href="#">B82B 3/0052</a> }
1/005	. {Constitution or structural means for improving the physical properties of a device}	3/0061	. {Methods for manipulating nanostructures}
1/006	. {Controlling the movement of the flexible or movable, e.g. slidable or rotatable, elements}	3/0066	. . {Orienting nanostructures}
1/007	. {Processes for preserving or protecting existing structures}	3/0071	. . {Sorting nanostructures}
1/008	. {Nanostructures not provided for in groups <a href="#">B82B 1/001</a> - <a href="#">B82B 1/007</a> }	3/0076	. . {Methods for manipulating nanostructures not provided for in groups <a href="#">B82B 3/0066</a> - <a href="#">B82B 3/0071</a> }
<b>3/00</b>	<b>Manufacture or treatment of nanostructures by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units</b>	3/008	. {Processes for improving the physical properties of a device}
3/0004	. {Apparatus specially adapted for the manufacture or treatment of nanostructural devices or systems or methods for manufacturing the same}	3/0085	. {Testing nanostructures}
3/0009	. {Forming specific nanostructures}	3/009	. {Characterizing nanostructures, i.e. measuring and identifying electrical or mechanical constants}
3/0014	. . {Array or network of similar nanostructural elements}	3/0095	. {Manufacture or treatments or nanostructures not provided for in groups <a href="#">B82B 3/0009</a> - <a href="#">B82B 3/009</a> }
3/0019	. . {without movable or flexible elements}		
3/0023	. . {comprising flexible or deformable elements}		
3/0028	. . {comprising elements which are movable in relation to each other, e.g. slidable or rotatable}		
3/0033	. . {Manufacture or treatment of substrate-free structures, i.e. not connected to any support}		
3/0038	. . {Manufacturing processes for forming specific nanostructures not provided for in groups <a href="#">B82B 3/0014</a> - <a href="#">B82B 3/0033</a> }		