

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](#).

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|-------------|--|--------|--|
| 1/00 | Nanostructures formed by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units | 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 B82B 3/0047 - B82B 3/0052 } |
| 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 B82B 1/001 - B82B 1/007 } | 3/0076 | . . {Methods for manipulating nanostructures not provided for in groups B82B 3/0066 - B82B 3/0071 } |
| 3/00 | Manufacture or treatment of nanostructures by manipulation of individual atoms or molecules, or limited collections of atoms or molecules as discrete units | 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 B82B 3/0009 - B82B 3/009 } |
| 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 B82B 3/0014 - B82B 3/0033 } | | |