

Title (en)
CREATION OF HIGH DENSITY MULTIDIMENSIONAL ADDRESSABLE ASSEMBLIES

Title (de)
ERSTELLUNG MEHRDIMENSIONALER ADRESSIERBARER BAUGRUPPEN VON HOHER DICHT

Title (fr)
CRÉATION D'ENSEMBLES ADRESSABLES MULTIDIMENSIONNELS HAUTE DENSITÉ

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Abstract (en)
[origin: WO2010017417A1] This invention relates to methods and apparatuses for molecular scale assembly of structures, including the creation of high density, geometrically patterned, two and three dimensional addressable assemblies of nucleobase containing polymers, and the construction of shapes compatible therewith. The invention provides methods of producing an output item comprising covalently-attached biopolymers configured in a defined shape, generated from a complementary master shape which displays a complementary single strand polynucleobase. The invention provides a method of producing an output item, comprising producing a uniform concave shape formation in a photosensitized solid substrate matrix, then metal vapor deposition to allow for attachment of self-assembled biopolymer patterns.

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