

Title (en)

METHODS OF MAKING CARBON NANOTUBE FILMS, LAYERS, FABRICS, RIBBONS, ELEMENTS AND ARTICLES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOHLENSTOFFNANORÖHREN ENTHALTENDEN FILMEN, SCHICHTEN, TEXTILEN FLÄCHENGEBILDEN, BÄNDERN, ELEMENTEN UND GEGENSTÄNDEN

Title (fr)

PROCEDES DE FABRICATION DE FILMS, COUCHES, TISSUS, RUBANS, ELEMENTS ET ARTICLES DE NANOTUBES DE CARBONE

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Application

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Priority

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Abstract (en)

[origin: WO2004065657A1] Methods of Making Carbon Nanotube Films, Layers, Fabrics, Ribbons, Elements and articles are disclosed. Carbon nanotube growth catalyst (350) is applied on to a surface of a substrate. The substrate is subjected to a chemical vapor deposition (370) of a carbon-containing gas to grow a non-woven fabric of carbon nanotubes. Portions of the non-woven fabric are selectively removed according to a defined pattern to create the article. A non-woven fabric of carbon nanotubes may be made by applying carbon nanotube growth catalyst (350) on to a surface of a water substrate to create a dispersed monolayer of catalyst. The substrate is subjected to a chemical vapor deposition (370) of carbon-containing gas to grow a non-woven fabric of carbon nanotubes in contact and covering the surface of the water and in which the fabric is substantially uniform density.

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