

Title (en)

METHOD FOR SEPARATING METAL AND SEMI-CONDUCTING NANOTUBES

Title (de)

VERFAHREN ZUR AUFTRENNUNG VON METALLISCHEN UND HALBLEITENDEN NANORÖHREN

Title (fr)

PROCÉDÉ DE SÉPARATION DE NANOTUBES MÉTALLIQUES ET SEMI-CONDUCTEURS

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Abstract (en)

[origin: WO2010108631A2] The invention relates to a method for separating metal and semi-conducting single-walled carbon nanotubes, comprising the following steps: a) suspending a material, which comprises both metal and semi-conducting nanotubes, by being exposed to ultrasound over a period of 1 hour to 4 hours in a solution made of water and a salt of dodecyl sulfate, which here preferably deposits on the metal tubes, wherein two species having different sizes are present in the suspension, and b) separating the two species based on the different sizes thereof.

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