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(54) **CATALYST FOR PRODUCING CARBON NANOTUBES BY MEANS OF THE DECOMPOSITION OF GASEOUS CARBON COMPOUNDS ON A HETEROGENEOUS CATALYST**

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USPC 502/301, 305, 308, 310, 311, 312, 313, 502/317, 318, 321, 325, 324; 423/447.1, 423/447.2, 447.3; 977/742, 842, 843, 904, 977/932, 936, 938, 948
See application file for complete search history.

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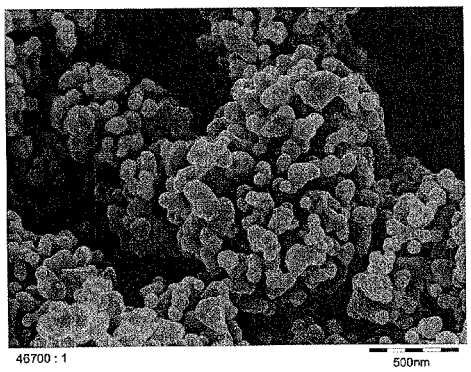
(57) **ABSTRACT**

The present invention relates to a process for the production of carbon nanotubes, in particular those having a diameter of 3-150 nm and an aspect ratio of length:diameter (L:D)>100, by decomposition of hydrocarbons on a heterogeneous catalyst which comprises Mn, Co, preferably also molybdenum, and an inert support material, and the catalyst and the carbon nanotubes themselves and the use thereof.

13 Claims, 2 Drawing Sheets