

Title (en)  
CRYSTALLINE GRAPHITE NANOFIBERS AND A PROCESS FOR PRODUCING SAME

Title (de)  
KRISTALLINE GRAPHITNANOFASERN UND VERFAHREN ZUR HERSTELLUNG DERSELBEN

Title (fr)  
NANOFIBRES DE GRAPHITE CRISTALLIN ET PROCEDE DE PRODUCTION CORRESPONDANT

Publication  
**EP 1349808 A1 20031008 (EN)**

Application  
**EP 01968718 A 20010907**

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Abstract (en)  
[origin: WO0220401A1] A process for producing substantially crystalline graphitic carbon nanofibers comprised of graphic sheets. The graphic sheets are substantially parallel or substantially perpendicular to the longitudinal axis of the carbon nanofiber. When the graphite sheets are to be substantially parallel, these carbon nanofibers are produced by contacting an iron, or an iron:copper, or an iron:nickel bimetallic bulk catalyst with a mixture of carbon monoxide and hydrogen at temperatures from about 670 DEG C to about 725 DEG C for an effective amount of time. When they are to be substantially perpendicular, the nanofibers are produced by use of an iron:copper bimetallic bulk catalyst at temperatures for about 550 DEG C to about 670 DEG C.

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