TITLE (AND CASE NUMBER) OF INVENTION
CARBON NANOFLAKES AND NANOSHEETS (0302)

INVENTORS
Jianjun Wang, Mingyao Zhu, Brian Holloway, Ron Outlaw, Dennis Manos, Xin Zhao

APPLICATIONS
These novel carbon nanostructural compositions have potential utility as field emitters in flat panel displays, as energy storage materials in fuel cells, as thermal conducting materials in computer chips, as catalyst supports, as well as many other potential applications.

SUMMARY
A PCT application has been filed to cover these novel compositions of carbon nanostructures, e.g., carbon nanosheets having a thickness of 2 nm or less. We have received broad composition of matter claims to vertically aligned graphene. These nanosheets are two-dimensional graphite sheets made up of one to several graphene layers. Multiple methods have been used to create the carbon nanosheets, including RF-PECVD. The novel materials can be coated, and are potentially useful in a wide variety of applications as cited above.

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CONTACT INFORMATION
Jason McDevitt (757-221-1751)
jason.mcdevitt@wm.edu