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Miranzo et al.

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(54) **PROCESS FOR PRODUCTION OF GRAPHENE/SILICON CARBIDE CERAMIC COMPOSITES**

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CPC *C04B 35/573* (2013.01); *B82Y 30/00* (2013.01); *C04B 35/575* (2013.01);
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(58) **Field of Classification Search**
CPC ... H01B 1/00; H01B 1/04; H01B 1/24; C04B 25/56; C04B 25/573-25/577; C04B 25/64; C04B 25/645; B82B 3/00
See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 398 days.

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(22) PCT Filed: **Sep. 19, 2013**

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(57) **ABSTRACT**

Related U.S. Application Data

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We provide a method for the in situ development of graphene containing silicon carbide (SiC) matrix ceramic composites, and more particularly to the in situ graphene growth within the bulk ceramic through a single-step approach during SiC ceramics densification using an electric current
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