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(57) Abstract: A method for producing graphene. The method includes loading an open-cell porous backbone material with particulate graphite, submersing at least part of the graphite-loaded porous backbone material in a solution, and applying a cathodic potential to the graphite-loaded porous backbone material, wherein the cathodic potential suffices to exfoliate graphene.

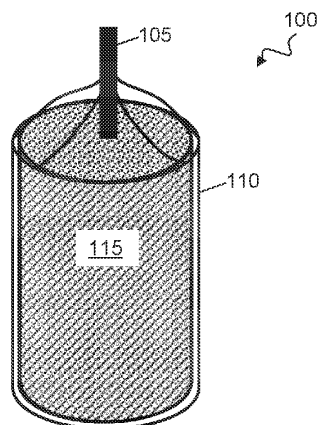


FIG. 1

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