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(54) Title: TRANSPARENT CONDUCTING FILMS INCLUDING GRAPHENE NANORIBBONS

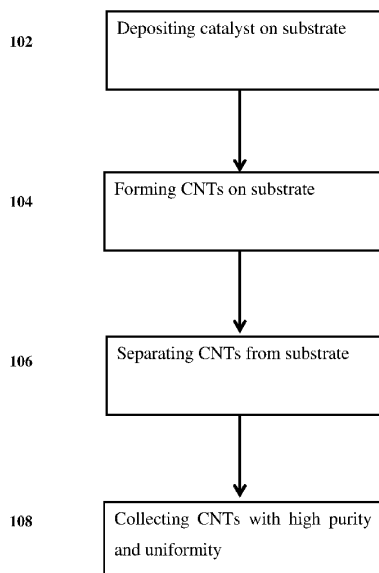


Fig. 1

(57) Abstract: Provided herein are transparent conducting films which include graphene nanoribbons of uniform length and greater than 90% purity and methods of synthesis thereof. Also provided herein are devices which include transparent conducting films comprised of graphene nanoribbons of uniform length and greater than 90% purity. The device may be a solar cell, a television, a display, a touch screen or a smart window.

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