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(71) Applicant (for all designated States except US):
WILLIAM MARSH RICE UNIVERSITY [US/US];
6100 Main Street, Houston, TX 77005 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TOUR, James, M.**
[US/US]; 4625 Spruce Street, Bellaire, TX 77401 (US).
ZHU, Yu [—/US]; 9726 Bevlyn Drive, Houston, TX
77025 (US).

(74) Agent: **AMINI, Farhang**; Winstead PC, P O Box 50784,
Dallas, TX 75201 (US).

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(54) Title: TRANSPARENT ELECTRODES BASED ON GRAPHENE AND GRID HYBRID STRUCTURES

(57) Abstract: In some embodiments, the present invention provides transparent electrodes that comprise: (1) a grid structure; and (2) a graphene film associated with the grid structure. In additional embodiments, the transparent electrodes of the present invention further comprise a substrate, such as glass. Additional embodiments of the present invention pertain to methods of making the above-described transparent electrodes. Such methods generally comprise: (1) providing a grid structure; (2) providing a graphene film; and (3) associating the graphene film with the grid structure. In further embodiments, the methods of the present invention also comprise associating the transparent electrode with a substrate.

