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(71) Applicant: **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG).

(72) Inventors: **CHAN, Bee Eng Mary**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG). **LI, Peng**; c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).

(74) Agent: **VIERING, JENTSCHURA & PARTNER LLP**; P.O. Box 1088, Rochor Post Office, Rochor Road, Singapore 911833 (SG).

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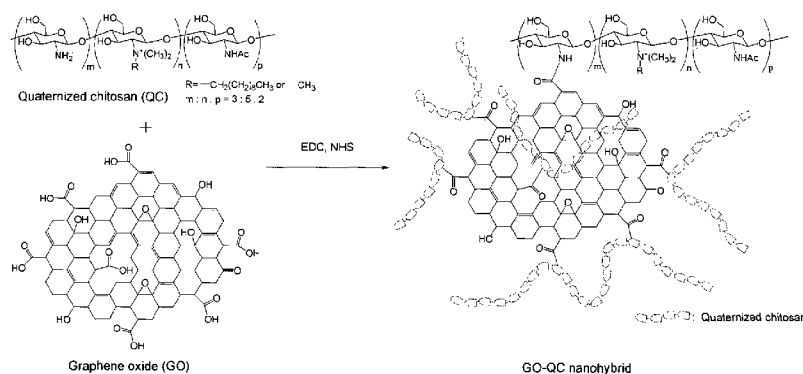
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(54) Title: HYBRID NANOMATERIAL OF GRAPHENE OXIDE NANOMATERIAL AND CATIONIC QUATERNIZED CHITOSAN

FIG. 1B



(57) Abstract: A hybrid nanomaterial consisting of graphene oxide (GO) nanomaterial covalently conjugated to cationic quaternized chitosan is provided. Method of preparing the hybrid nanomaterial, an antimicrobial composition containing the hybrid nanomaterial, and use of the antimicrobial composition in inhibiting growth of microorganisms in an environment are also provided.