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(71) Applicant: **NATIONAL UNIVERSITY OF SINGAPORE** [SG/SG]; 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(72) Inventors: **GRANIERO ECHEVERRIGARAY, Sergio**; c/o National University of Singapore, Centre for Advanced 2D Materials, 21 Lower Kent Ridge Road, Singapore

119077 (SG). **NAIR, Vivek**; c/o National University of Singapore, Centre for Advanced 2D Materials, 21 Lower Kent Ridge Road, Singapore 119077 (SG). **CASTRO NETO, Antonio Helio de**; c/o National University of Singapore, Centre for Advanced 2D Materials, 21 Lower Kent Ridge Road, Singapore 119077 (SG).

(74) Agent: **KINNAIRD, James Welsh**; Marks & Clerk Singapore LLP, Tanjong Pagar Post Office, P O Box 636, Singapore 910816 (SG).

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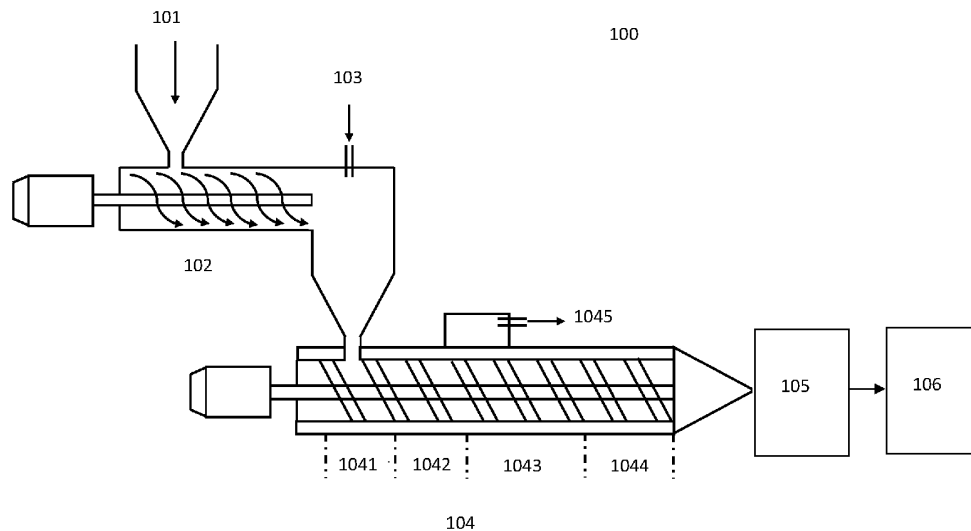


Figure 1

(57) Abstract: Disclosed herein is an apparatus suitable for preparing sulfur-host composite materials, comprising: a screw extruder comprising one or more heating zones, each comprising a heating element; a means or apparatus for providing an inert atmosphere or vacuum to the screw extruder; and an atomiser configured to receive a molten stream from the screw extruder and atomise the molten stream into an atomised stream, wherein the screw extruder is configured to generate a molten stream comprising molten sulfur and a solid particulate host material when in use.

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