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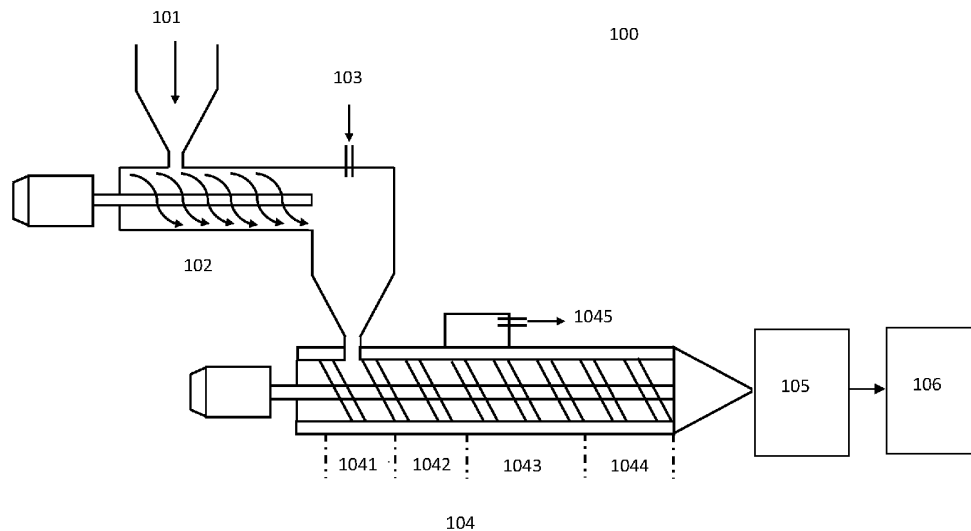


Figure 1

(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.

[Continued on next page]

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