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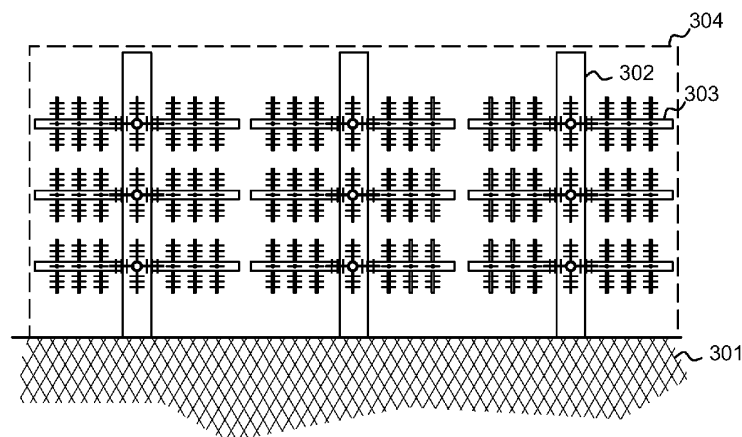


Fig. 3

(57) Abstract: Heat exchanger material for use in heat exchangers of cryogenic cooling systems comprises solid material rendered into its final form in an additive manufacturing process. The material has a surface-to-volume ratio of at least 10^5 l/m. The invention also relates to a cryogenic cooling system and a heat exchanger for transferring thermal energy to or from a liquid cryogen. The aim of the invention is to overcome the difficulties in making thermal energy transfer between a liquid cryogen and an adjacent solid structure.

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