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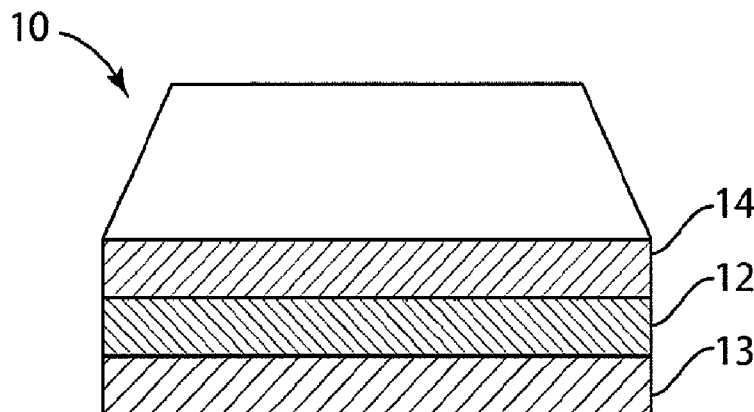


Fig. 1

(57) Abstract: The invention generally relates to thin film composite heat exchangers and methods of making thin film composite heat exchangers. The heat exchangers can be made with polymers or other materials including, but not limited to, inorganic materials such as silicon, clay, ceramic, brick, or metal. Heat exchangers in accordance with the invention may be made of a material that is non-corrosive, durable, and that may be applied in a thin coating so as to minimize resistance to heat transfer and material costs.