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Jun Liang; c/o Singapore Institute of Manufacturing Technology, 2 Fusionopolis Way, #08-04, Innovis, Singapore 138634 (SG).

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

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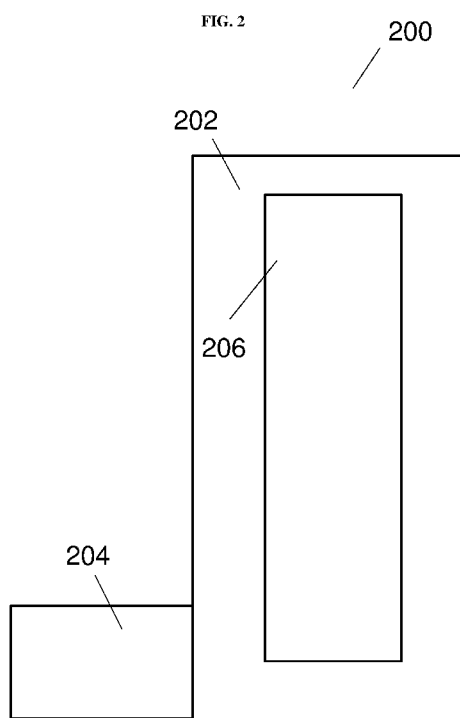
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(71) **Applicant: AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).

(72) **Inventors: ISAKOV, Dmitry**; c/o Singapore Institute of Manufacturing Technology, 2 Fusionopolis Way, #08-04, Innovis, Singapore 138634 (SG). **VONG, Siew Soon**; Singapore Institute of Manufacturing Technology, 2 Fusionopolis Way, #08-04, Innovis, Singapore 138634 (SG). **TAN,**

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(54) **Title:** RADIANT COOLER BASED ON DIRECT ABSORPTION AND LATENT HEAT TRANSFER, METHODS OF FORMING AND OPERATING THE SAME



(57) **Abstract:** Various embodiments may relate to a radiant cooler. The radiant cooler may include a chamber. The radiant cooler may also include a vacuum pump connected to the chamber. The radiant cooler may further include an infrared absorber arranged within the chamber. A wall of the chamber may be configured to allow at least a portion of infrared light to pass through. The vacuum pump may be configured to generate a vacuum in the chamber. The infrared absorber may include a fluid, i.e. a liquid, configured to evaporate into the vacuum upon receiving thermal energy from at least the portion of infrared light.

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