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(54) Title: RESONANT THERMAL OSCILLATOR TO IMPROVE OUTPUT OF A THERMO-FLUIDIC SYSTEM

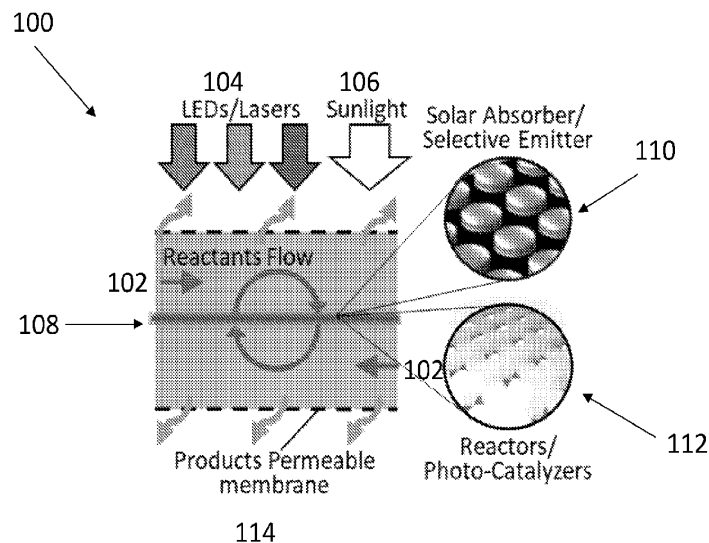


Fig. 1

(57) Abstract: A method includes providing a resonant thermal oscillator in a thermofluidic system having at least two counter-flowing liquid streams separated by at least a spectrum absorbing material, wherein the spectrum absorbing material is hydrophobic, light-absorbing, and photothermal, and adjusting a flow rate in at least one of the counter-flowing liquid streams to maximize heat transfer between the at least two counter-flowing liquid streams.

[Continued on next page]

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