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(57) Abstract :

Title: SYSTEM AND METHOD FOR DESIGNING MICROHEATER ACHIEVING HIGH TEMPERATURE UNIFORMITY
ABSTRACT A Perforated Type 1 and Type 2 microheaters (100 and 110) comprising: a substrate configured with an electrical contact pads (102) of $200\mu\text{m} \times 200\mu\text{m}$ and a terminal (106) to provide contact between the electrical contact pads (102) and heating element to improve the heating and maximize the current density over the entire structure which leads to higher heat generation wherein the heating element are ring bars /stems (104) in a perforated Type-1 microheaters and as an inner squares/window (108) in a perforated Type-2 microheaters which is a thin conducting path made of a high resistive material which exhibits joule heating when a current is passed through it and the heat gets distributed uniformly over its surface. << FIG. 1A and FIG. 1B >>

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