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(54) Title: METHOD AND SYSTEM FOR PROVIDING VARIABLE RAMP-UP CONTROL FOR AN ELECTRIC HEATER

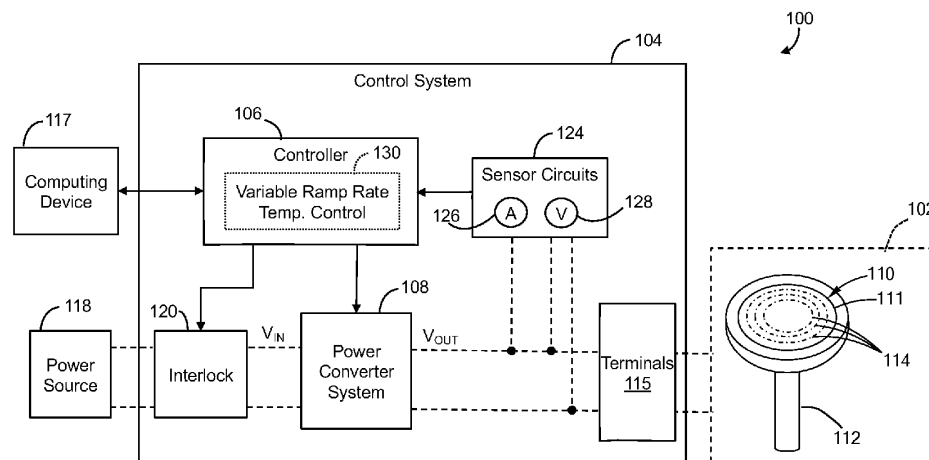


FIG. 1

(57) Abstract: In one form, the present disclosure is directed toward a method for controlling temperature of a heater including a resistive heating element. The method includes applying power to the resistive heating element of the heater at a variable ramp rate to increase temperature of the heater to a desired temperature setpoint. The variable ramp rate is set to a desired ramp rate. The method further includes monitoring an electric current flowing through the resistive heating element of the heater, and reducing the variable ramp rate from the desired ramp rate to a permitted ramp rate in response to the electric current being greater than a lower limit of an electric current limit band. An upper limit of the electric current limit band is provided as a system current limit.

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