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(71) Applicant: **LAM RESEARCH CORPORATION** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US).

(72) Inventors: **CHANDRASEKHARAN, Ramesh**; 2357 Hillside Ln, Lake Oswego, Oregon 97034 (US). **THILAGARAJ, Mohan**; 8900 SW Sweek Drive, Tualatin, Oregon 97062 (US). **LEESER, Karl Frederick**; 22675 Johnson Road, West Linn, Oregon 97068 (US).

(74) Agent: **WIGGINS, Michael D.** et al.; Harness, Dickey & Pierce, P.L.C., 5445 Corporate Drive, Suite 200, Troy, Michigan 48098 (US).

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(54) **Title:** USE OF SIGNAL FILTERING SCHEMES IN HIGH TCR BASED CONTROL

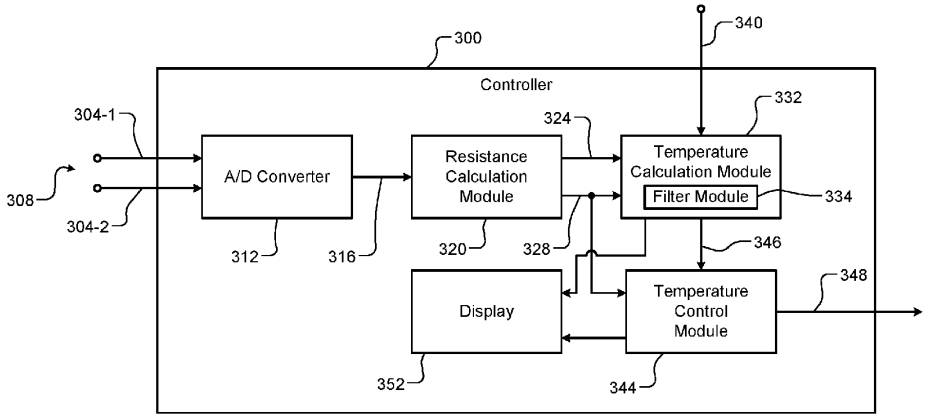


FIG. 3

(57) **Abstract:** A controller to control a temperature of a first substrate support in a substrate processing system includes a resistance calculation module to calculate a first resistance of a first heater element of a plurality of heater elements of the first substrate support, a temperature calculation module to calculate a first temperature of the first heater element based on the calculated first resistance, and a filter module to filter a first signal that corresponds to the calculated first resistance. The temperature calculation module selectively causes the filter module to filter the first signal in response to a determination of whether at least one condition associated with operation of the substrate processing system is met.

[Continued on next page]

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