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(54) Title: A SYSTEM AND A METHOD OF PERFORMING AUTOMATED SCREENING OF THERMOELECTRIC MATERIALS

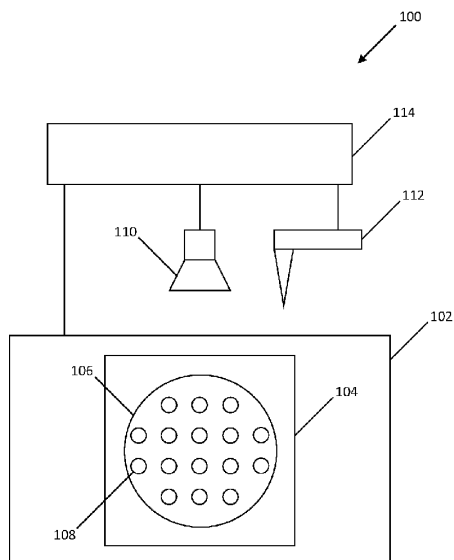


FIG. 1

(57) Abstract: There is provided a system and method of performing automated screening of thermoelectric materials, the system comprising, a temperature control stage for introducing a temperature gradient, said temperature control stage comprising a thermally conductive sheet dimensioned to support a wafer having a diameter of at least 4 inches and a plurality of samples disposed on a surface thereof; a thermal camera for measuring a temperature profile along the wafer and a temperature gradient across each sample disposed on the wafer; an electrical probe for performing electrical measurements on the plurality of samples; and a processing unit for determining one or more thermoelectric properties of the plurality of samples based on the electrical measurements; wherein the electrical probe is configured to move, in response to instructions from a vision algorithm, to target locations associated with the plurality of samples.

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