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(54) Title: METHOD AND APPARATUS FOR RECOGNIZING OPERATING STATE OF PHOTOVOLTAIC STRING AND STORAGE MEDIUM

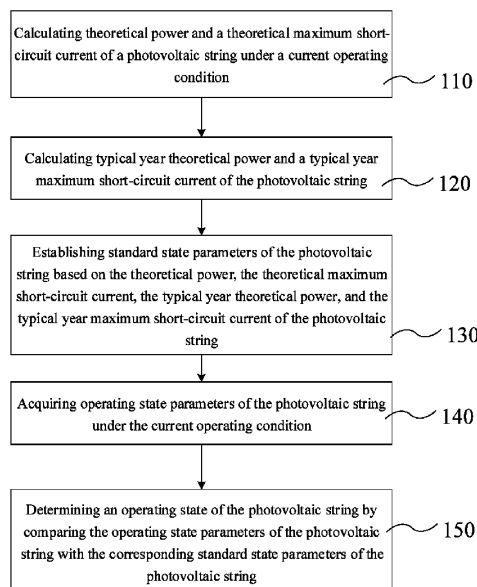


FIG. 1

(57) Abstract: Disclosed are a method and apparatus for recognizing an operating state of a photovoltaic string. The method includes: calculating a theoretical power and a theoretical maximum short-circuit current of a photovoltaic string under a current operating condition; calculating a typical year theoretical power and a typical year maximum short-circuit current of the photovoltaic string; establishing standard state parameters of the photovoltaic string based on the theoretical power, the theoretical maximum short-circuit current, the typical year theoretical power, and the typical year maximum short-circuit current of the photovoltaic string; acquiring operating state parameters of the photovoltaic string under the current operating condition; determining the operating state of the photovoltaic string by comparing the operating state parameters of the photovoltaic string with the corresponding standard state parameters of the photovoltaic string.

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