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(54) **Title:** COMBING MULTIPLE TRENDING MODELS FOR PHOTOVOLTAIC PLANT OUTPUT FORECASTING

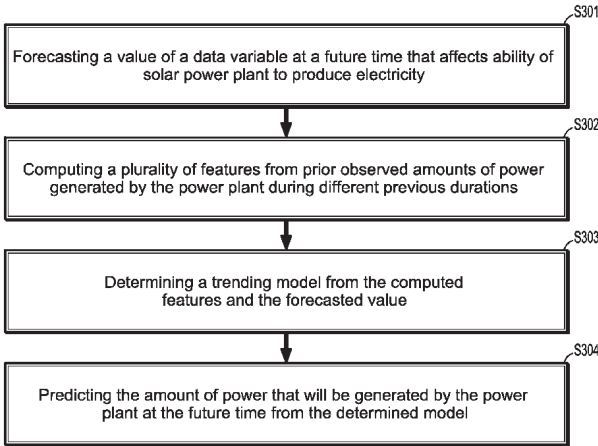


FIG. 3

(57) **Abstract:** A method of predicting an amount of power that will be generated by a solar power plant at a future time includes: forecasting a value of a data variable at the future time that is likely to affect the ability of the solar power plant to produce electricity (S301); computing a plurality of features from prior observed amounts of power generated by the power plant during different previous durations (S302); determining a trending model from the computed features and the forecasted value (S303); and predicting the amount of power that will be generated by the power plant at the future time from the determined model (S304).