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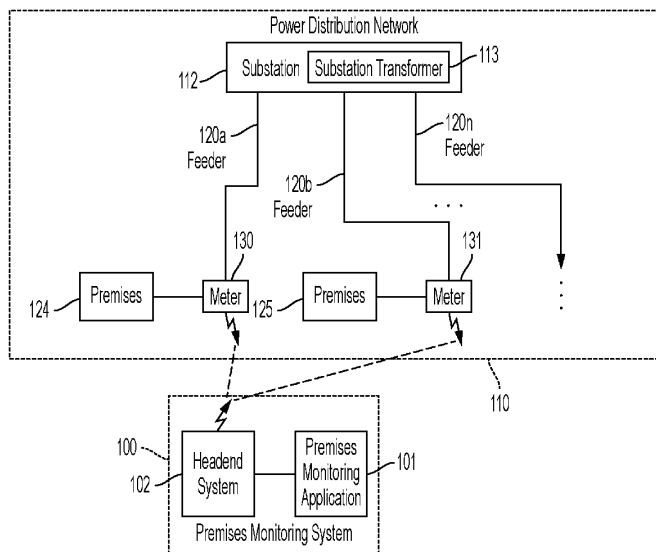


FIG. 1

(57) **Abstract:** A system includes a processor and a non-transitory, computer-readable memory that includes instructions executable by the processor for causing the processor to perform operations. The operations include accessing premises consumption data of a premises in a power distribution network. The premises consumption data includes an indication of premises resource consumption over a period of time. The operations also include applying a machine-learning model to the premises consumption data. The machine-learning model is trained to generate an output corresponding to an electric vehicle classification of the premises. Further, the operations include generating the electric vehicle classification of the premises using the output of the machine-learning model and controlling power generation of the power distribution network based on the electric vehicle classification of the premises.

[Continued on next page]

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