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(54) Title: DETERMINING AN ELECTRIC FAULT LOCATION IN AN ELECTRICAL DISTRIBUTION NETWORK

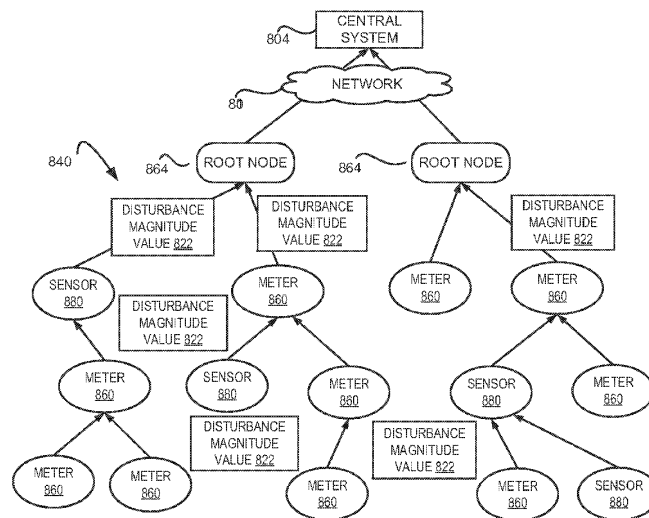


FIG. 8

(57) Abstract: Systems and methods for enhanced power notification messages are disclosed. One disclosed system for enhanced outage notification messages includes a meter including metrology, a processing unit, and a communications module. The metrology measures voltage associated with an electrical distribution network and determines that an outage event has occurred based on detecting out of range voltage associated with the electrical distribution network for a predetermined number of cycles or predetermined period of time. The processing unit determines a disturbance magnitude value associated with an outage event from waveform data. The communications module communicates an outage notification message and the disturbance magnitude to a central system, where the disturbance magnitude value is a value representing a probability that a fault causing an outage is located at an area of the electrical distribution network.

[Continued on next page]

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