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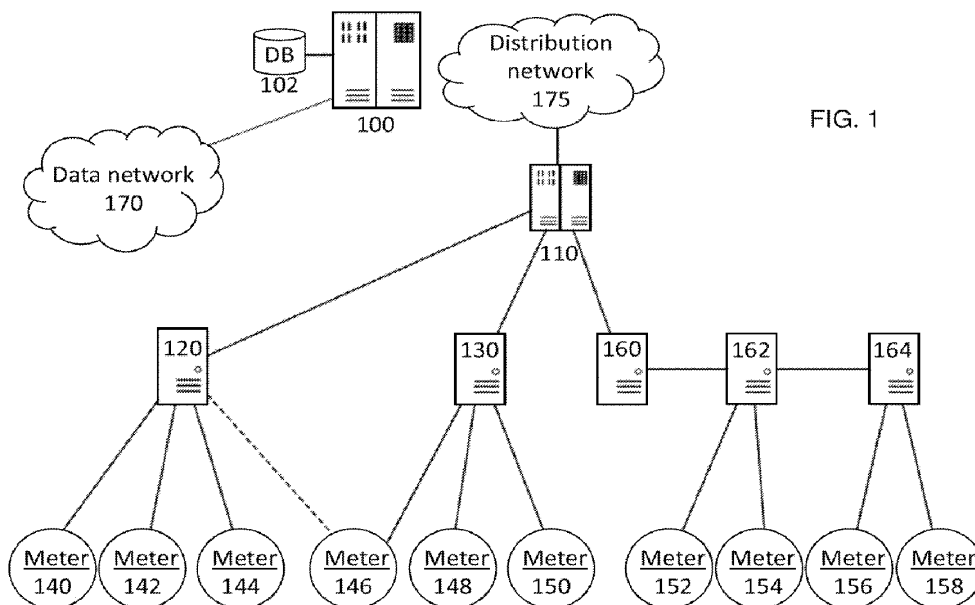


FIG. 1

(57) Abstract: A method of controlling a network of devices in a power distribution network to prevent power overload, the method comprises: setting an aggregate power threshold based on a max rating of a transformer connected to the devices in the network; for each device in the network, setting an individual power threshold based on the aggregate threshold and the number of devices in the network; in response to determining that a first device in the network has a power exceeding its individual power threshold, querying other devices in the network to determine a combined power usage of the network; and when the combined power usage exceeds the aggregate power threshold, controlling one or more devices in the network to reduce the combined power usage.

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