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(54) **SYSTEMS AND METHODS FOR WIRELESSLY CHARGING INTERNET OF THINGS DEVICES**

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(57) **ABSTRACT**

A device may receive device data identifying Internet of Things (IoT) devices and may receive network data identifying network traffic patterns associated with the IoT devices. The device may process the device data and the network data, with a machine learning model, to determine parameters for charging each of the IoT devices and may determine that a particular IoT device of the IoT devices requires charging based on particular parameters associated with the particular IoT device. The device may receive location data identifying a location of the particular IoT device and may cause, based on the location data, one or more chargers to wirelessly provide a radio frequency power beam to the particular IoT device based on the particular parameters.

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Receive device data identifying IoT devices, charging thresholds for the IoT devices, charging cycles for the IoT devices, etc.

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Receive network data identifying network traffic patterns, one or more base stations associated with each IoT device, locations of the IoT devices, etc.

RAN controller 115

Chargers

Base stations 105

IoT devices 110