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(54) **POWER FOR VEHICLES TRAVELING ON OR ABOVE ROADS**

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(57) **ABSTRACT**

Systems and techniques are provided for power delivery to vehicles on a roadway. A vehicle can be detected traveling on a roadway having a plurality of power distribution units for providing electrical power. The vehicle is authenticated to receive electrical power from one or more power distribution units based on identifying information associated with the vehicle. Based on successful authentication of the vehicle, a selected one or more power distribution units can be energized, the selected one or more power distribution units selected from the plurality of power distribution units as being nearest to the authenticated vehicle. Electrical power can be provided from at least one of the energized power distribution units to the authenticated vehicle while the authenticated vehicle travels along the roadway. The selected one or more power distribution units can be de-energized based on detecting that a load associated with the authenticated vehicle is no longer present.