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(54) **TRANSMITTER END, RECEIVER END,
DYNAMIC WIRELESS POWER SUPPLY
SYSTEM, AND ELECTRIC VEHICLE**

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(57) **ABSTRACT**

A transmitter end includes a transmitter coil. The transmitter end further includes a transmitter end control system and N energy management modules, where N is an integer greater than 1. Input ends of the N energy management modules are electrically connected to a power grid, and output ends of the N energy management modules are electrically connected to the transmitter coil. Each energy management module includes an AC-DC circuit, an inverter circuit, and a transformer. The transmitter end control system is electrically connected to the inverter circuits in the N energy management modules, and is configured to output synchronous phase shift control signals with a fixed duty cycle, to drive the inverter circuits to work synchronously. The energy management module may be used in the transmitter end, and form a smallest module.

