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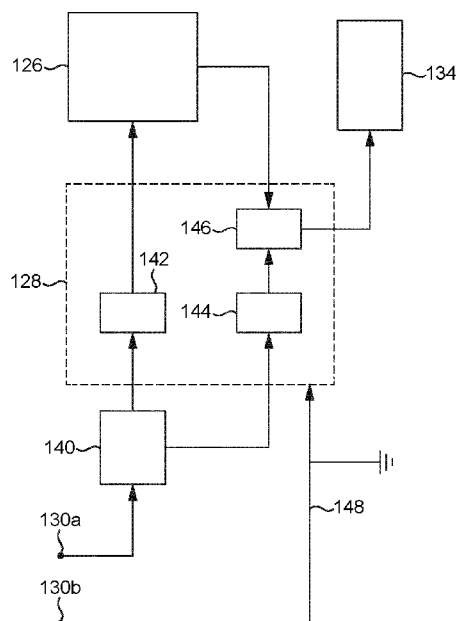
(54) **Title:** POWER AND DATA TRANSMISSION SYSTEM AND METHOD

FIG. 2

(57) **Abstract:** In one aspect there is provided a system for transmitting power and data from a host device to a receiver device over an electrical connection comprising: a host device configured to transmit power and data through an output, the host device configured to transmit the power through the output at different times to the data; a receiver device having an input connectable to the output of the host device, the receiver device comprising a power receiving circuit and a data receiving circuit and a switch element configured to connect the input to the power receiving circuit or the data receiving circuit dependent on a voltage of a signal received from the input. In another aspect there is provided a receiver device for receiving power and data from a host device comprising: an input connectable to the host device; a power receiving circuit; a data receiving circuit; and a switch element configured to connect the input to the power receiving circuit or the data receiving circuit dependent on a voltage of a signal received from the input.