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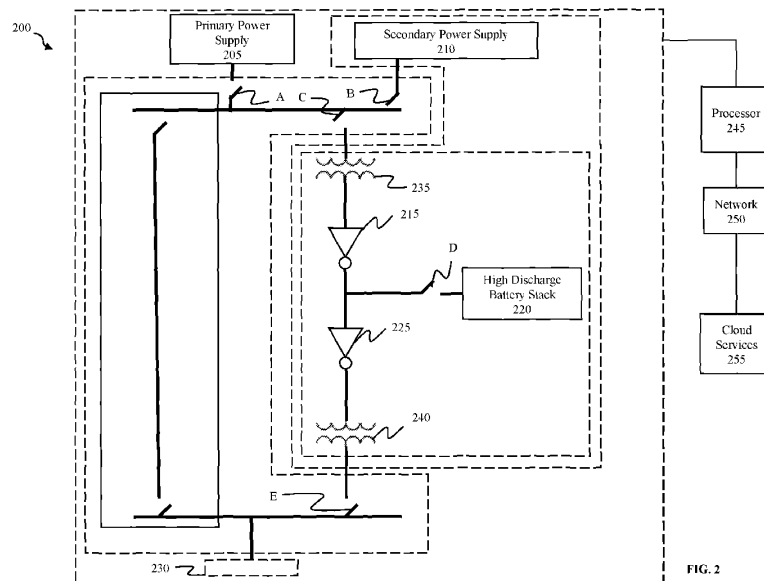
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(54) Title: METHODS AND SYSTEMS FOR CONDITIONING AND MAINTAINING POWER TRANSMITTED TO A CUSTOMER LOAD FROM AT LEAST ONE OF A PRIMARY POWER SUPPLY AND A SECONDARY POWER SUPPLY



(57) Abstract: A method for conditioning and maintaining power transmitted to a customer load from a primary or secondary power supply is disclosed. The method includes receiving a first input from the power supply, converting the first input using a converter, and continuously adjusting at least one converter power parameter to satisfy at least one inverter power parameter. The method determines whether the first output transmitted from the converter to an inverter satisfies the at least one inverter power parameter. If the output satisfies the inverter power parameter, then power is supplied to the customer load without charging or discharging a high discharge battery stack. The method also includes monitoring primary power supply parameters and switching to the secondary power supply if the primary power supply parameter fails to satisfy the respective primary power supply parameter threshold.

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