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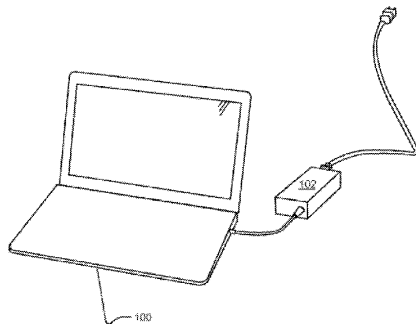
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(54) Title: DYNAMIC LOADING FOR A SWITCHING POWER SUPPLY



(57) Abstract: A power supply unit provides power to a common output node. The power supply unit includes a first power conversion block electrically coupled to convert the electrical power input to a first output power supply share supplied to the common output node. The first power conversion block is configured to decrease output voltage from the first power conversion block based on output current from the first power conversion block reaching a rated current level. A second power conversion block is electrically coupled to convert the electrical power input to a second output power supply share supplied to the common output node. The second power conversion block is configured with a predesignated open circuit voltage setting and is further configured to contribute the second output power supply share to the common output node based on the output voltage at the common output node decreasing to the predesignated electrical voltage setting.

FIG. 1

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