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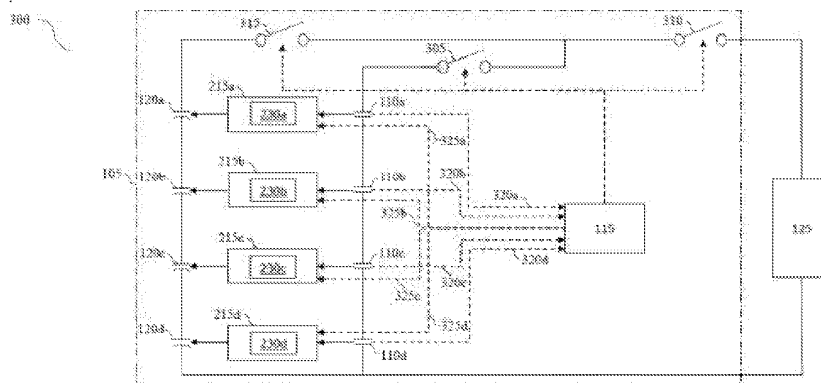


FIG. 3

(57) Abstract: A system (115) includes a plurality of sensors (210) to measure multiple operational parameters of each of the plurality of cells (110). The system (115) further includes a switching unit (215) and a controlling unit (235) electrically and communicably coupled to each of the plurality of cells (110). The controlling unit (235) determines an energy value ($E(\text{cell}-n)$) for each of the cells (110) based on the multiple operational parameters of the cells (110), determines an energy delta (D_n) for the cells (110) and thereafter selectively operates the switching unit (215) for a time period (t_n) to allow transfer of energy from one of the cells (110) to a storage unit (120). Thereby, each of the cells (110) is at an ideal operating state and the plurality of cells (110) are balanced.

[Continued on next page]

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