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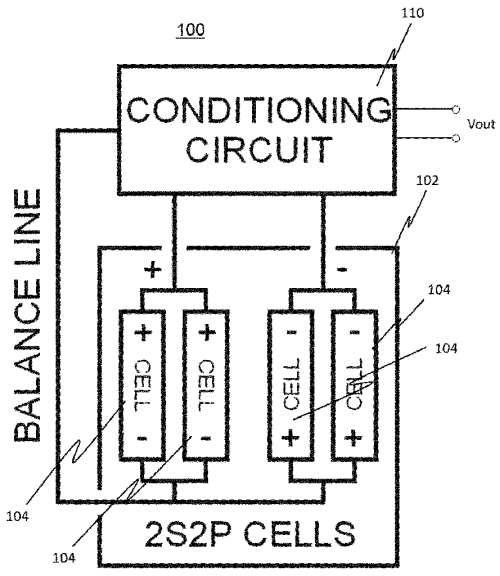
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(54) Title: HIGH-RATE BATTERY SYSTEM

Fig. 1



(57) Abstract: The invention relates to a battery comprising a power conditioning circuit operable to condition power discharged from a plurality of connected cells to provide an output voltage range narrower than the input voltage of the plurality of connect cells. The invention also relates to a method of discharging a high-rate energy storage system comprising discharging, using a power conditioning circuit, a plurality of connected cells in a first voltage range, conditioning power discharged from the plurality of connected cells to provide an output voltage in a second range, wherein the second range is smaller than the first range on a per cell basis. The power conditioning circuit may comprise a dual-stage boost converter coupled to a plurality of connected cells. The battery can be used to discharge cells over a wide cell voltage range and provide a narrower and more usable voltage range to a load, to facilitate fast cell cycling.

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