

ABSTRACT

[Abstract]

[Task] In a power storage unit wherein electric power supply
5 to an electric vehicle and absorption of regenerated electric
power are performed by charging/discharging an electric double-
layer capacitor by a step up/down chopper, measures are
provided by which a load resistor facility is not required and
prevention of invalidated regeneration of the electric vehicle and
10 protection of the electric double-layer capacitor from over voltage
are achieved without increasing a capacity of the capacitor.

[Means for solution] The electric vehicle 2 is of a type that has
such a function as to reduce a regenerative current from 100% to
0% in accordance with a pantograph point voltage that is above a
15 specified level. When the electric double-layer capacitor 4A is
charged up to an arbitrary voltage, a control section 4C of the
step up/down chopper 4B carries out an invalidated regeneration
prevention control by which the voltage of a feeder cable is
increased up to such a level as to actuate the regenerative
20 current reducing control function of the electric vehicle 2.

Fig. 1