

SYSTEM AND METHOD FOR POWER CHARGING OR DISCHARGING

Abstract

A system includes a plurality of stacks and a plurality of converters. Each of the plurality of converters is operable to charge a corresponding stack for adsorbing ions in the liquid. When one of the plurality of stacks is charged or discharged at a first state, one of the plurality of converters associating with the stack operates in a first mode, and is configured to indirectly convert a first voltage to a second voltage at least by an intermediate stage. When one of the plurality of stacks is charged or discharged at a second state, one of the plurality of converters associating with the stack operates in a second mode, and is configured to directly convert the first voltage to the second voltage.

(FIG. 1)