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(51) International classification	:H02M0001000000, H02M0003335000, H02J0007350000, H02M0001420000, H02M0003155000	(71)Name of Applicant : <b>1)RAJANALA SHIVAGANESH NAIDU</b> Address of Applicant :CMR College of Engineering & Technology, Kandlakoya(V), Medchal Road, Hyderabad-501401, Telangana, India. Telangana India <b>2)BADIGA HASITHA</b> <b>3)SOIJANYA KUCHANA</b> <b>4)P. RAVEENDRA BABU</b> <b>5)Dr. K. VIJAYA KUMAR</b> <b>6)Dr. A. KOTISHWAR</b>
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(57) Abstract :

Exemplary embodiment of the present disclosure is directed towards a system for automatic recharge of a handheld device comprising of: an Input Power Transducer is a CBC5300, whereby the CBC5300 configured to operate with many transducer types; and a boost converter configured to increase the voltage from the solar cell to a sufficient level to charge the thin-film battery and run the rest of the system, whereby the boost converter is a class of switched-mode power supply (SMPS) containing at least two semiconductors (a diode and a transistor) and at least one energy storage element, a capacitor, inductor, or the two in combination, whereby a charge control block continuously monitors the output of the boost converter, whereby upon the output of the boost converter falls below the voltage needed to charge the EnerChip, the charge controller disconnects the boost converter from the system to prevent back powering the boost converter in low light conditions. FIG 1

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