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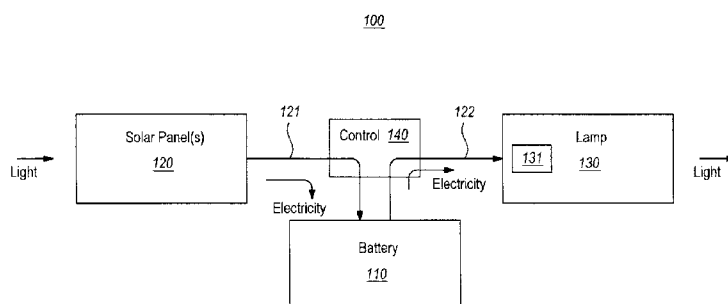


Fig. 1

(S7) Abstract: A device is designed for channeling electricity to a lamp, and adjusts downwards the amount of power channeled to the lamp as a function of available electrical energy in the source. In so doing, a reduction in the available energy in the source causes a less proportionate reduction in luminosity of the lamp. This might be accomplished by passing the electricity through a passive network of resistors and diodes on its way down to the lamp. In one example, the electrical energy source may be a battery that is powered by one or more solar panels. In that case, the device may also perform the function of protecting the battery from being overly charged. It channels downwards a greater daily lamp's energy consumption than that of daily electrical charging from the solar panels, when the available battery energy is near its full capacity.