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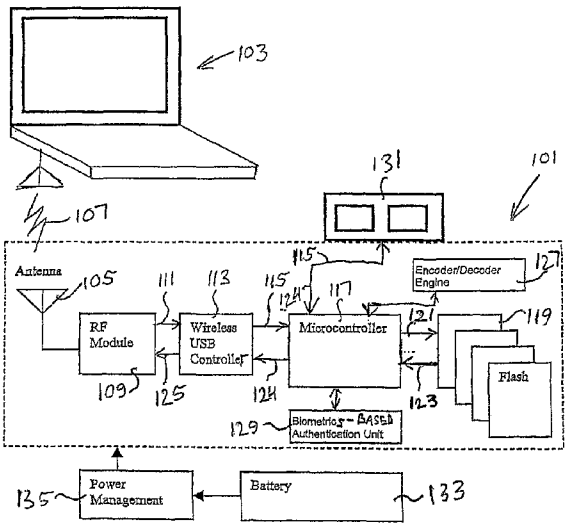
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(54) Title: SOLID-STATE STORAGE DEVICE WITH WIRELESS HOST INTERFACE



(57) Abstract: The storage device (101) has an RF module (109) which demodulates an ultra-wideband write signal (107) received wirelessly from a host (103) and outputs a wireless protocol write signal (111). A wireless USB controller (113) has a protocol conversion layer which converts the wireless protocol write signal into a USB protocol write signal (115). A microcontroller (117) has function extraction layer for extracting a write command from the USB protocol write signal and controls writing (121) of data extracted from the USB protocol write signal to the solid-state memory (119). The microcontroller also reads (123) data stored in the solid-state memory in response to a read command received from the host and outputs a USB protocol read signal (124) to the wireless USB controller. The USB protocol read signal is then converted into a wireless protocol read signal (125), modulated to an ultra-wideband signal, and transmitted wirelessly to the host.

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