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- (54) **Title:** A PORTABLE DATA STORAGE DEVICE WITH WIRELESS FUNCTIONALITY HAVING A DIGITAL SWITCH CIRCUIT AND A METHOD FOR STORING DATA IN THE AFOREMENTIONED

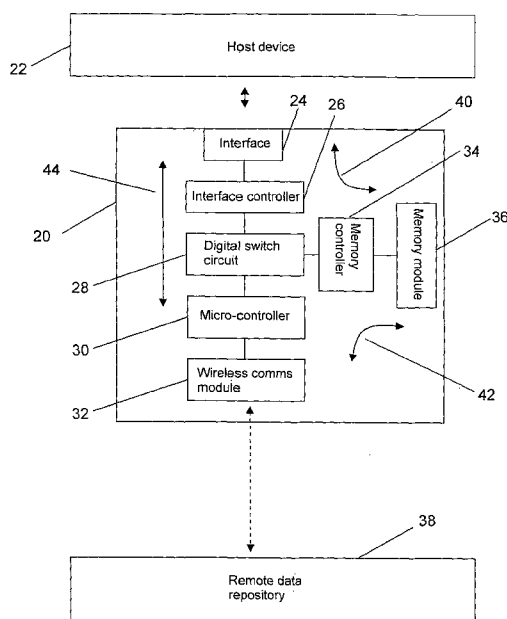


Figure 1

(57) **Abstract:** There is provided a portable data storage device with wireless functionality. The portable storage device includes a digital switch circuit for controlling a flow of data in the portable storage device; a non-volatile memory module coupled to the digital switch circuit, the non-volatile memory module being for storing data; an interface coupled to the digital switch circuit for enabling the portable data storage device to be used for data transfer with a host device; a microcontroller coupled to the digital switch circuit for controlling the digital switch circuit; and a wireless communications module coupled to the microcontroller for wireless transmission/reception of data. The microcontroller is configured to toggle amongst a plurality of discrete modes of the digital switch circuit such that in at least one of the plurality of discrete modes the digital switch circuit diverts data away from the microcontroller to reduce a processing load on the microcontroller. A corresponding method is also disclosed.