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United States Patent [19]

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Flannery

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[54] **METHOD AND APPARATUS OF PROVIDING POWER MANAGEMENT USING A SELF-POWERED UNIVERSAL SERIAL BUS (USB) DEVICE**

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[21] Appl. No.: **677,325**

Michael Slater. "Universal Bus To Simplify PC I/O: New interface to service keyboards, mice, telecom, and more.". *Microprocessor Report*, Apr. 17, 1995 vol. 9 No. 5 p1(5), MicroDesign Resources Inc., 8 pgs., (Jan. 14, 1996).

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[51] Int. Cl.⁶ **G06F 1/32**

[52] U.S. Cl. **395/750.03**

[58] Field of Search 395/750, 750.01, 395/750.03; 364/707

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[57] ABSTRACT

The capability of a peripheral bus to provide an alternative low power source is combined with existing power management software that controls a computer's main power supply unit to provide stand-by power to logic in the computer that remains active to monitor the system environment for predetermined wake-up events. A self-powered Universal Serial Bus device supplies the minimal power needed by the active logic without the inefficiencies of a dual-stage power supply unit or the expense of incorporating both low-power and a full-power units.

17 Claims, 7 Drawing Sheets

