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ABSTRACT

A VCR or other microcomputer controlled equipment may be subjected to AC supply interruption resulting from many causes, such as, plugging or unplugging the AC supply with the unit switched on, contact bounce on the AC power switch, AC supply drop outs caused by heavy load switching, lightning etc. Short term AC disconnects should not result in the VCR user settings being lost or the user having to manually reset the control system to restore operability. To gain the earliest indication of imminent supply interruption, the AC supply is monitored (Q1) and a control signal (STOP) is produced that instructs the microcomputer system to save current parameters and assume a low power dissipation mode. With the reappearance of the supply, a RESET signal is generated (Q3) which enables commencement of the microcomputer system. AC interruptions as short as two cycles are detected and STOP and RESET signals are produced.

Figure 3

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