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[54] **POWER-ON RESET CIRCUIT**

[75] Inventors: **Randy L. Yach**, Phoenix; **Richard L. Hull**, Chandler, both of Ariz.

[73] Assignee: **Microchip Technology Incorporated**, Chandler, Ariz.

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[52] **U.S. Cl.** **361/90**; 361/115; 361/92

[58] **Field of Search** 361/93, 92, 91, 361/90, 115

[56] **References Cited**

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Primary Examiner—Jeffrey A. Gaffin
Assistant Examiner—Stephen W. Jackson
Attorney, Agent, or Firm—Wigman, Cohen, Leitner & Myers, P.C.

[57] **ABSTRACT**

A power-on reset circuit (**10**) for resetting electronic circuitry to be monitored has been provided. The power-on reset circuit includes a trip point generator (**12**) including the worst case component (the component that requires the greatest power supply voltage to operate) within the electronic circuitry for setting the threshold voltage for taking the electronic circuitry out of reset such that if the worst case component is operative, it is guaranteed that all components are operative and, thus, the electronic circuitry can be taken out of reset. Moreover, because the threshold voltage is based upon the worst case component of the electronic circuitry, the threshold voltage of the trip point generator will adequately track the electronic circuitry over normal process and temperature variations. Additionally, the power-on reset circuit includes a noise filter (**34**) for placing the electronic circuitry back into reset if variations within the power supply voltage causes the power supply voltage level to fall below a predetermined threshold for at least a minimum period of time.

6 Claims, 2 Drawing Sheets

