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(54) **TEMPERATURE FEEDBACK CONTROL SYSTEM FOR DYNAMIC VOLTAGE FREQUENCY SCALING**

(71) Applicant: **Huawei Technologies Co., Ltd.**, Shenzhen, Guangdong (CN)

(72) Inventors: **Zhen Yao**, Shenzhen (CN); **Liqian Chen**, Shanghai (CN); **Lili Pan**, Shanghai (CN)

(73) Assignee: **Huawei Technologies Co., Ltd.**, Shenzhen (CN)

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CPC ***G05D 23/19*** (2013.01); ***G06F 1/206*** (2013.01); ***G06F 1/324*** (2013.01); ***G06F 1/3296*** (2013.01); *Y02B 60/1217* (2013.01); *Y02B 60/1275* (2013.01); *Y02B 60/1285* (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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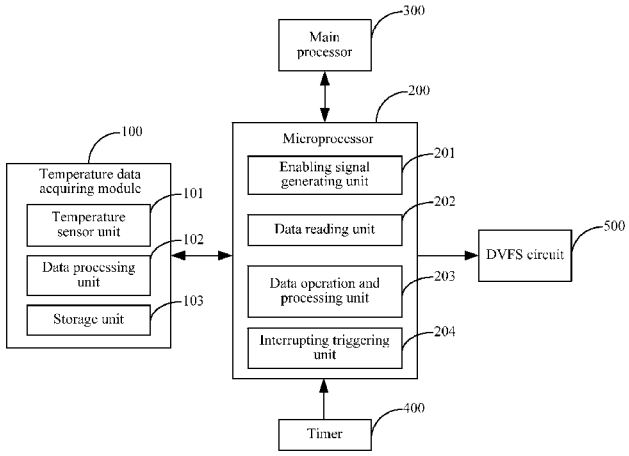
Primary Examiner — Mohammad Ali
Assistant Examiner — Bernard G Lindsay
(74) *Attorney, Agent, or Firm* — Leydig, Voit & Mayer, Ltd.

(57) **ABSTRACT**

The present invention applies to the field of integrated-circuit control, and provides a temperature feedback control system and method for DVFS (Dynamic Voltage Frequency Scaling). In the present invention, a main processor sends a control data packet to a microprocessor according to a received temperature feedback trigger signal, and the microprocessor immediately triggers working of a temperature data acquiring module, and after the temperature data acquiring module acquires real-time temperature data of a chip, executes a temperature feedback algorithm on the real-time temperature data according to the control data packet to output a corresponding performance control parameter, so as to enable a DVFS circuit to adjust a working frequency and a working voltage of the chip, and further enable the chip to implement automatic frequency and voltage adjusting at a low voltage and a low temperature and at a high voltage and a high temperature.

6 Claims, 2 Drawing Sheets