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(54) Title: POLE TOWER DISPLACEMENT MONITORING SYSTEM AND MONITORING METHOD THEREOF

(54) 发明名称: 杆塔位移监测系统及其监测方法

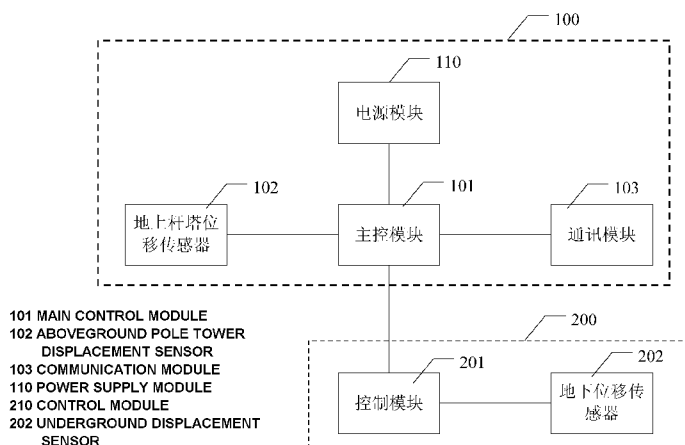


图 2 / Fig. 2

(57) Abstract: Provided is a pole tower displacement monitoring system, comprising a pole tower displacement monitoring terminal and an underground displacement monitoring terminal electrically connected thereto; the pole tower displacement monitoring terminal is disposed on a pole tower, and comprises a main control module, and an aboveground pole tower displacement sensor, a power supply module and a communication module respectively connected to the main control module; the underground displacement monitoring terminal is disposed on an underground bedrock, and comprises a control module and a displacement sensor electrically connected to the control module. The above technical solution utilizes the displacement sensor to monitor the displacement of the pole tower and the bedrock respectively, and calculates the displacement of the pole tower relative to the bedrock via the displacement of the pole tower and the bedrock. The monitoring solution overcomes the one-sidedness that only the inclination angle of the pole tower is monitored in the prior art, and can more comprehensively and accurately monitor the displacement of the pole tower in a real-time and on-line manner, thus achieving the monitoring of real pole tower status information, and facilitating the further planning and construction of state grid.

(57) 摘要:

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