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(71) 申请人: 新华三技术有限公司 (**NEW H3C TECHNOLOGIES CO., LTD.**) [CN/CN]; 中国浙江省杭州市滨江区长河路466号 310052 (CN)。

(72) 发明人:张玉君(**ZHANG, Yujun**); 中国北京市朝阳区广顺南大街8号院1号楼利星行中心A座640室 100102 (CN)。 陆岩(**LU, Yan**); 中国北京市朝阳区广顺南大街8号院1号楼利星行中心A座640室 100102 (CN)。 朱仕银(**ZHU, Shiyin**); 中国北京市朝阳区广顺南大街8号院1号楼利星行中心A座640室 100102 (CN)。 刘锋(**LIU, Feng**); 中国北京市朝阳区广顺南大街8号院1号楼利星行中心A座640室 100102 (CN)。

(74) 代理人: 北京博思佳知识产权代理有限公司 (**BEIJING BESTIPR INTELLECTUAL PROPERTY LAW CORPORATION**); 中国北京市海淀区上地三街9号嘉华大厦B座409 100085 (CN)。

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(54) **Title:** VERTICAL POWER SUPPLY SYSTEM

(54) 发明名称: 一种垂直供电系统

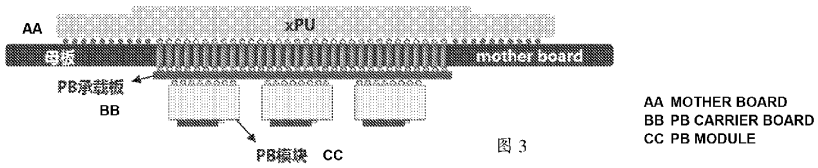


图 3

(57) **Abstract:** The present application provides a vertical power supply system. The vertical power supply system comprises a processor, a main board, and a vertical power circuit. The vertical power circuit comprises a PB carrier board and PB modules. The processor is connected to a first surface of the main board by means of a plurality of first fixing members, and the PB carrier board is connected to a second surface of the main board by means of a plurality of second fixing members. The plurality of second fixing members are in one-to-one correspondence with the plurality of first fixing members, and the second fixing members are connected to the first fixing members corresponding thereto by means of via holes in the main board. Each PB module is connected to the PB carrier board by means of a plurality of third fixing members, and the PB module is used for converting an input power source into a target power source. The target power source passes through the plurality of third fixing members, the PB carrier board, the plurality of second fixing members, the via holes in the main board, and the plurality of first fixing members to supply power to the processor. By means of the technical solution of the present application, transmission loss during power supply can be reduced, thereby achieving good heat dissipation for the power supply system.

(57) 摘要: 本申请提供一种垂直供电系统，所述垂直供电系统包括：处理器、主板和垂直电源电路，垂直电源电路包括PB承载板和PB模块；处理器通过多个第一固定件连接到主板的第一面，PB承载板通过多个第二固定件连接到主板的第二面；多个第二固定件与多个第一固定件一一对应，且第二固定件与该第二固定件对应的第一固定件通过主板上的过孔连接；PB模块通过多个第三固定件连接到PB承载板，PB模块，用于将输入电源转换为目标电源；所述目标电源经过多个第三固定件、PB承载板、多个第二固定件、主板上的过孔、多个第一固定件，为处理器供电。通过本申请的技术方案，能够降低供电传输损耗，供电系统的散热较好。

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