

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(43) 国际公布日
2006 年 1 月 12 日 (12.01.2006)

PCT

(10) 国际公布号
WO 2006/002600 A1

(51) 国际专利分类号⁷: **H02M 7/12**
(21) 国际申请号: PCT/CN2005/000963
(22) 国际申请日: 2005 年 7 月 1 日 (01.07.2005)
(25) 申请语言: 中文
(26) 公布语言: 中文
(30) 优先权:
200410062286.2
2004 年 7 月 5 日 (05.07.2004) CN

(81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW。

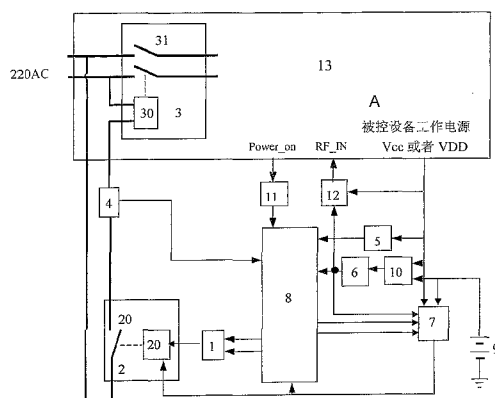
(71) 申请人及
(72) 发明人: 周先谱(ZHOU, Xianpu) [CN/CN]; 中国内蒙古包头市稀土高新区创业中心软件园C座313室, Neimenggu 014010 (CN)。
(74) 代理人: 中国商标专利事务所有限公司(CHINA TRADEMARK & PATENT LAW OFFICE CO., LTD); 中国北京市西城区月坛南街14号月新大厦, Beijing 100045 (CN)。

(84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)。

[见续页]

(54) Title: A CONTROL DEVICE FOR A POWER SUPPLY WITH ZERO POWER CONSUMPTION IN STANDBY MODE

(54) 发明名称: 零功耗待机电源控制装置



A POWER SUPPLY OF CONTROLLED EQUIPMENT VCC OR VDD

(57) Abstract: The present invention discloses a kind of control device for a power supply with zero power consumption in standby mode, which includes a driver, an intermediate relay, a power relay, a signal induction circuit, a working power supply monitoring circuit of a controlled equipment, a power supply switch circuit, a single-chip microcomputer and a battery. When a standby command is received by said signal induction circuit, said single-chip microcomputer causes said intermediate relay to cut off the power supply of the controlled equipment and the power supply switch circuit by said driver. When the controlled equipment is in standby mode, all parts of the control device of the invention are in the off state but the signal induction circuit is powered by the battery, so as to gain safety with low power consumption.

[见续页]

WO 2006/002600 A1

**根据细则4.17的声明:**

— 发明人资格(细则4.17(iv)) 仅对US

所引用双字母代码及其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。

本国际公布:

— 包括国际检索报告。

(57) 摘要:

本发明公开了一种零功耗待机电源控制装置, 包括驱动器、中间继电器、功率继电器、信号感应电路、被控设备工作电源监测电路、电源切换电路、单片机和电池。当所述信号感应电路接收到待机命令时, 所述单片机通过所述驱动器使所述中间继电器切断被控设备的电源, 同时切断所述电源切换电路。当被控设备处于待机状态时, 本发明零功耗待机电源控制装置中除了信号感应电路由电池供电外, 其它部件均处于关断状态, 因而, 达到低能耗且安全。