

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/024451 A3

- (51) International Patent Classification:
H01H 35/00 (2006.01)
- (21) International Application Number:
PCT/US2007/018675
- (22) International Filing Date: 21 August 2007 (21.08.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/823,455 24 August 2006 (24.08.2006) US
- (71) Applicant (for all designated States except US): **TECHNOLOGY MAVERICKS, LLC** [US/US]; 5125 S. Garnett Road, Suite E, Tulsa, OK 74146 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CARSON, Anthony** [US/US]; 6710 South 111th East Avenue, Tulsa, OK 74133 (US). **NOLAND, Bryan** [US/US]; 1515 South Evanston Avenue, Tulsa, OK 74104 (US).
- (74) Agents: **JAMES, R., Yee** et al.; Howard & Howard Attorneys, P.C., 39400 Woodward Avenue, Suite 101, Bloomfield Hills, MI 48304-5151 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).
- Published:
— with international search report
- (88) Date of publication of the international search report:
12 September 2008



WO 2008/024451 A3

(54) Title: CURRENT SENSING LOAD DEMAND APPARATUS AND METHODS

(57) Abstract: An apparatus supplies AC power to a load. The apparatus includes a set output terminals, a primary circuit, and a load sensing circuit. The primary circuit is electrically coupled to a source of AC power and to the output terminals for selectively providing power at a low voltage at the output terminals or electronically coupling the source of AC power directly to the output terminals. The load sensing circuit coupled to the primary circuit and the source of AC power for determining a resistance associated with the load at initial application of the load and controlling the primary circuit to electronically couple the source of AC power directly to the output terminals if a proper load is detected.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/18675

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H01H 35/00(2006.01)

USPC: 307/116

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 307/116

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US20070086126 A1 (Baxter) 19 APRIL 2007 (19.04.2007), ABSTRACT.	1-7,10,12,16-20
A	US 5,565,714 A (CUNNINGHAM) 15 OCT 1996 (15.10.1996), ABSTRACT.	1-7,10,12,16-20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

01 May 2008 (01.05.2008)

Date of mailing of the international search report

18 JUN 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Robert DeBeradinis

Telephone No. 571 272 2800

