



(43) International Publication Date
30 December 2009 (30.12.2009)

(51) International Patent Classification:
H02J 9/00 (2006.01)

(21) International Application Number:
PCT/IB2009/006046

(22) International Filing Date:
24 June 2009 (24.06.2009)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
TO2008A000506 27 June 2008 (27.06.2008) IT

(71) Applicant (for all designated States except US): **INDESIT COMPANY S.P.A.** [IT/IT]; Viale Aristide Merloni, 47, I-60044 Fabriano (AN) (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TORDONI, Simone** [IT/IT]; Via Lago di Varano, 24, Frazione Fiamenga, I-06034 Foligno (PG) (IT). **POSSANZA, Mauro** [IT/IT]; Via Dante 71D, I-60044 Fabriano (AN) (IT). **CORSI, Fabrizio** [IT/IT]; Via della Stazione 40, I-67018 Sassa l'Aquila (AQ) (IT). **CESARONI, Andrea** [IT/IT]; Via Tabano 19, I-60035 Jesi (AN) (IT).

(74) Agents: **DINI, Roberto** et al.; c/o Metroconsult Srl, Via Sestriere 100, I-10060 None (TO) (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, 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 (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
22 July 2010

(54) Title: STANDBY CIRCUIT AND ELECTRIC APPLIANCE COMPRISING SUCH A CIRCUIT

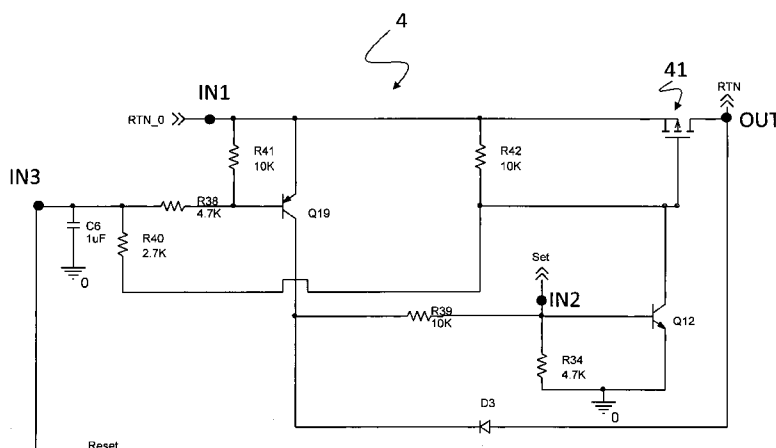


Fig.3

(57) Abstract: The present invention relates to an electric standby circuit (4) for an electric appliance. The circuit comprises a switch (41) adapted to open and close an electric connection between a first input (IN1) and an output (OUT) of the circuit (4), and a bistable circuit electrically connected to the switch in order to control the opening and closing thereof. The bistable circuit comprises a first BJT transistor (Q19) of the pnp type and a second BJT transistor (Q12) of the npn type. The first transistor (Q19) is connected to the first input (IN1) through the emitter, and the collector of the first transistor (Q19) is connected to the base of the second transistor (Q12) through a first resistor (R39). The collector of the second transistor (Q12) is connected to the switch (41) and to a second input (IN3) through a second resistor (R40). The base of the first transistor (Q19) is connected to the second input (IN3) through a third resistor (R38).



WO 2009/156831 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/006046

A. CLASSIFICATION OF SUBJECT MATTER

INV. H02J9/00

ADD.

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)

H02J

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 069 667 A2 (ALPS ELECTRIC CO LTD [JP]) 17 January 2001 (2001-01-17) abstract figures	1-14
A	US 4 413 290 A (FURUTA KENJI [JP]) 1 November 1983 (1983-11-01) the whole document	1-14
A	EP 0 800 955 A2 (HARNESYS TECH RES LTD [JP]; SUMITOMO WIRING SYSTEMS [JP]; SUMITOMO) 15 October 1997 (1997-10-15) abstract figure 1	1-14

 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

"E" earlier document but published on or after the international filing date

"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)

"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

"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

"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

"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.

"&" document member of the same patent family

Date of the actual completion of the international search

31 May 2010

Date of mailing of the international search report

07/06/2010

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Hurtado-Albir, F

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2009/006046

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1069667	A2	17-01-2001	JP 2001037078 A US 6476518 B1	09-02-2001 05-11-2002
US 4413290	A	01-11-1983	JP 55114021 U JP 60017066 Y2	11-08-1980 27-05-1985
EP 0800955	A2	15-10-1997	US 5936317 A	10-08-1999