(19) World Intellectual Property Organization International Bureau



T LEDIN BUNDAN IN BERUT BERUT 1981 IN 11 MIN TERM HERM BRIT BUND BURG BERUT 1888 IN 1885

(43) International Publication Date 18 October 2001 (18.10.2001)

PCT

(10) International Publication Number WO 01/77764 A3

(51) International Patent Classification⁷: G05B 19/418, H04B 7/15, H04L 12/28

(21) International Application Number: PCT/DK01/00252

(22) International Filing Date: 10 April 2001 (10.04.2001)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 09/547,055 10 April 2000 (10.04.2000)

(71) Applicant (for all designated States except US): ZENSYS A/S [DK/DK]; Emdrupvej 26, DK-2100 Copenhagen Ø (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CHRISTENSEN, Carlos, Mélia [DK/DK]; Østbanegade 3, 4., DK-2100 Copenhagen Ø (DK). KNUDSEN, Jesper [DK/DK]; Belvederevej 34, DK-3000 Elsinore (DK).

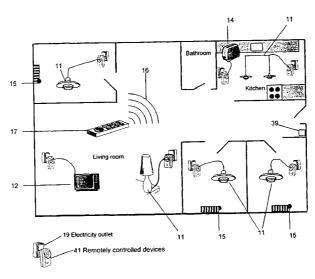
- (74) Agent: PLOUGMANN, VINGTOFT & PARTNERS A/S; Sankt Annæ Plads 11, P.O. Box 3007, DK-1021 Copenhagen K (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: RF HOME AUTOMATION SYSTEM COMPRISING REPLICABLE CONTROLLERS



(57) Abstract: The present invention relates to a wireless home automation system having a controller for controlling a broad variety of functions via two ways communication with a plurality of devices. More specifically, the invention relates to systems having two or more controllers for controlling devices, wherein information related to the system can be shared between controllers, e.g. by updating a second controller with the newly learned information of a first controller, or by replicating a controller by making a second controller a complete copy of a first controller. The information can be shared by, in a first controller, generating and transmitting signals comprising device identifiers of devices controlled by the first controller, receiving said signals at a second controller, and storing said device identifiers in an organized data structure in a memory of the second controller. This function proves advantageous when new controllers are introduced in the system or if a controller is lost, worn out, or destroyed.



VO 01/77764 A3



(88) Date of publication of the international search report: 7 February 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No PCT/DK 01/00252

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G05B19/418 H04 H04B7/15 H04L12/28 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) G05B G06F H04B H04L H04Q IPC 7 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. γ WO 97 32419 A (PHILIPS ELECTRONICS NV) 1 - 194 September 1997 (1997-09-04) page 1, line 22 -page 4, line 31 page 6, line 14 -page 7, line 21 page 8, line 17 -page 12, line 7; claims 1-8,12-15,24-27,30; figures 1,2 abstract US 4 626 848 A (EHLERS RAYMOND G) 2 December 1986 (1986-12-02) Υ 1 - 19abstract "Bluetooth - The universal Α HAARTSEN JAAP: 1-19 radio interface for ad hoc, wireless connectivity' ERICSSON REVIEW, no. 3, 1998, pages 110-117, XP002901994 the whole document Further documents are listed in the continuation of box C. Х Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date 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 docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. "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 Date of mailing of the international search report 1 5, 11, 2001 23 October 2001 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 E. Aselius/JAn

INTERNATIONAL SEARCH REPORT

formation on patent family members

International Application No
PCT/DK 01/00252

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9732419	A	04-09-1997	US EP WO JP	5978364 A 0826278 A2 9732419 A2 11504785 T	02-11-1999 04-03-1998 04-09-1997 27-04-1999
US 4626848	Α	02-12-1986	JP JP JP KR	1613528 C 2041238 B 61023499 A 9202229 B1	15-08-1991 17-09-1990 31-01-1986 20-03-1992