

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

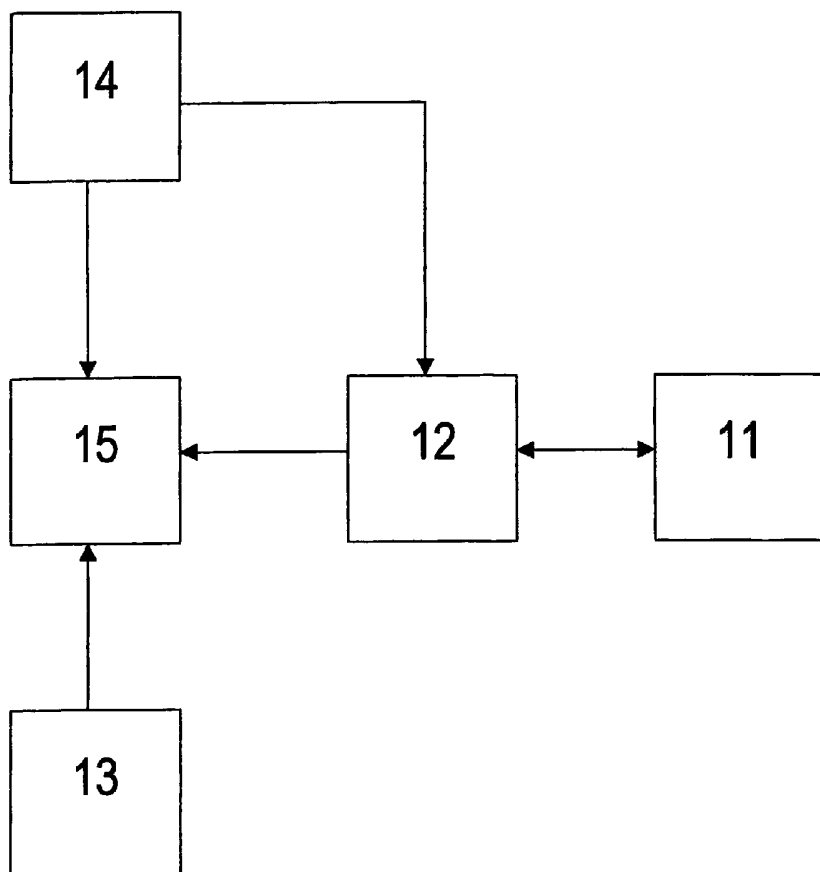
PCT

(10) International Publication Number
WO 2004/109619 A3

- (51) International Patent Classification⁷: **G08C 19/28**
- (21) International Application Number: PCT/IT2004/000329
- (22) International Filing Date: 7 June 2004 (07.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: BS2003A000053 10 June 2003 (10.06.2003) IT
- (71) Applicant (for all designated States except US): **RIB S.R.L.** [IT/IT]; Via Matteotti 162, I-25014 Castenedolo (IT).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BOSIO, Stefano** [IT/IT]; Via Matteotti 162, I-25014 Castenedolo (IT).
- (74) Agent: **SANGIACOMO, Fulvia**; Biesse S.R.L., C.So Matteotti, 42, I-25122 Brescia (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): 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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: AUTHENTICATION AND MANAGEMENT SYSTEM OF REMOTE CONTROL CODING



(57) Abstract: This invention relates to a management and authentication system of the radio transmission codings in remote control devices which use radio frequency transmitters to dialogue with the fixed radio receivers. The system includes a personal computer loaded with a programme for storing at least the codings of the remote controls, and a portable, electronic device (Memory Box) for storing and programming, connectable to the personal computer. The stored codings of the remote controls are transferred from the personal computer to the electronic device (Memory Box) and from said electronic device to the radio receivers to be configured, wherein they may be authenticated by an authentication and loyalty electronic device.

WO 2004/109619 A3



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
27 January 2005

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IT2004/000329

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G08C19/28

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)
IPC 7 G08C

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, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 384 737 B1 (HSU LIANG-HAO ET AL) 7 May 2002 (2002-05-07) column 2, line 23 - line 51 column 3, line 33 - column 4, line 57	1
A	US 5 148 159 A (CLARK JOHN ET AL) 15 September 1992 (1992-09-15) column 2, line 49 - column 4, line 32 column 5, line 15 - line 58 claim 1	1

Further documents are listed in the continuation of box C.

Patent family members are listed in 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

10 November 2004

Date of mailing of the international search report

22/11/2004

Name and mailing address of the ISA
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

Authorized officer

Kokkoraki, A

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IT2004/000329

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
US 6384737	B1	07-05-2002	US 6633235 B1	14-10-2003
US 5148159	A	15-09-1992	NONE	