

(12)

EUROPEAN PATENT APPLICATION

(88)

Date of publication A3:
28.05.2008 **Bulletin 2008/22**

(51)

Int Cl.:
G08C 19/28 (2006.01) **G07C 9/00** (2006.01)

(43)

Date of publication A2:
21.03.2001 **Bulletin 2001/12**

(21)

Application number: **00650129.0**

(22)

Date of filing: **13.09.2000**

(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE Designated Extension States: AL LT LV MK RO SI (30) Priority: 13.09.1999 IE 990766 (71) Applicant: PHISIOLOG RESEARCH LIMITED Foxrock, Dublin 18 (IE)	(72) Inventors: Moriarty, Donal Clondalkin, Dublin 22 (IE) O'Connell, Thomas Blackrock, County Dublin (IE) (74) Representative: Weldon, Michael James et al c/o John A. O'Brien & Associates, Third Floor, Duncairn House, 14 Carysfort Avenue Blackrock, Co. Dublin (IE)
--	--

(54)

A remote control transmitter

(57)

A remote control group transmitter (1) stores an encryption key uniquely associated with the remote control group. The transmitter decrypts an encrypted group-specific site code in a teaching radiation signal. The site code is then used to generate the encryption key for operation of a shared group function. The transmitter, in use, encrypts the discrimination value and the hopping

index with the encryption key. The serial number is transmitted, but is not encrypted A receiver of the group decrypts the encrypted code to determine the discrimination value and hopping index. The receiver validates a new transmitter by receiving and decrypting two encrypted codes in quick succession and checking that the serial numbers are the same and the second hopping index is valid with reference to the first hopping index.

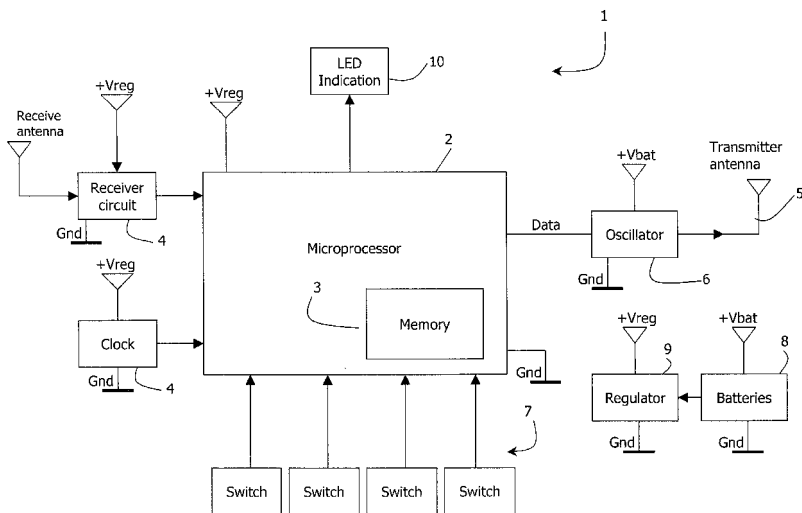


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 65 0129

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 661 804 A (DYKEMA KURT A [US] ET AL) 26 August 1997 (1997-08-26) * abstract * * column 1, line 64 - column 5, line 21 * * column 6, lines 29-64 * * column 7, lines 55-58 * * column 14, line 60 - column 15, line 21 * * column 17, lines 25-49 * * column 23, line 10 - column 24, line 64 * * figure 5 *	1-14	INV. G08C19/28 G07C9/00
X	US 5 767 784 A (KHAMHARN ODDY N [US]) 16 June 1998 (1998-06-16) * the whole document *	1-4,8, 10,11,13	
X	WO 97/33373 A (MICROCHIP TECH INC [US]) 12 September 1997 (1997-09-12) * abstract * * page 3, line 20 - page 4, line 2 * * page 5, line 20 - page 6, line 31 * * figures 1A,1C *	1-4,8, 10,11,13	TECHNICAL FIELDS SEARCHED (IPC) G08C G07C
X	WO 96/37063 A (CHAMBERLAIN GROUP INC [US]; FARRIS BRADFORD L [US]; FITZGIBBON JAMES J) 21 November 1996 (1996-11-21) * abstract * * page 4, line 23 - page 7, line 32 *	1-4,8, 10,11,13	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 10 April 2008	Examiner Rolan Cisneros, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 65 0129

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-04-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5661804	A	26-08-1997	CA 2177410 A1	28-12-1996
			DE 19624817 A1	02-01-1997
			GB 2302751 A	29-01-1997
			JP 9233566 A	05-09-1997

US 5767784	A	16-06-1998	US 5506905 A	09-04-1996

WO 9733373	A	12-09-1997	DE 69715117 D1	10-10-2002
			DE 69715117 T2	08-05-2003
			EP 0829141 A1	18-03-1998
			JP 11504792 T	27-04-1999
			US 5675622 A	07-10-1997

WO 9637063	A	21-11-1996	AU 710682 B2	30-09-1999
			AU 5921396 A	29-11-1996
			BR 9606663 A	16-09-1997
			CA 2193846 A1	21-11-1996
			DE 69637072 T2	10-01-2008
			EP 0771498 A1	07-05-1997
			US 6154544 A	28-11-2000
