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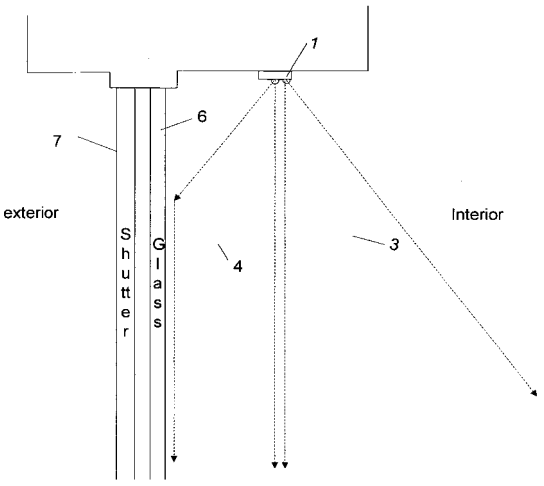
(54) Peripheral device that connects to home alarm systems and serves the global protection of an opening through magnetic switches and motion sensors

(57) The invention is a peripheral device that connects to home alarm systems and aims to the global protection of an opening (door / window), and to make the residential alarm systems more friendly to the user. It monitors the magnetic switches which are installed in the construction (window glass and shutter) of the door/window, it checks the window glass for a possible break through motion sensors, it detects the presence of external magnetic fields that are strong enough to disable the magnetic switches and it protects against any malicious short wiring of the alarm zone. It receives power from the alarm's control center and it has a trivial consumption of about 2mA. It requires no modification to the existing wiring of the house. It runs a special software so that no alarm can be caused by the excitation motion sensors from inside the house but only when someone breaks the glass from the outside and pass through the opening. False alarms from excitations that can occur from the exterior of the house , such as for lightning, has also been obliterated. In addition, the device enables the system to distinguish whether the opening of the window glass/ shutter has been made from inside or outside of the house and thus enabling the tenant to open a door or a window from inside without the alarm going off. From this point strong algorithms start covering various scenarios in order to give the tenant a maximum of flexibility. The ultimate goal is that the security system should not restrict tenant's everyday live and so it will remain armed 24 hours a day. In addition, it gives the opportunity to choose between a smart operation as described above and a conventional system, which prohibits any dealing in construction by handling the control center's keyboard (any center that supports dual terminal resistance).

Figure 2



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EUROPEAN SEARCH REPORT

Application Number
EP 11 38 6009

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 Y	GB 2 286 423 A (MCCRACKEN JAMES [GB]) 16 August 1995 (1995-08-16) * the whole document * * page 2, line 7 - page 2, line 12 * * page 3, line 16 - page 3, line 32 * * page 4, line 23 - page 4, line 32 * * page 5, line 7 - page 5, line 28 * * page 7, line 5 * * page 7, line 14 - page 7, line 27 * * page 7, line 29 - page 7, line 34 * * page 9, line 1 - page 9, line 15 * * page 10, line 8 - page 10, line 33 * -----	1,6,8-14 2,4,5,7	INV. G08B13/08 G08B25/01 ADD. G08B13/22 G08B29/18
A	WO 98/12068 A2 (HESS BRIAN K [US]) 26 March 1998 (1998-03-26) * the whole document * * page 4, line 1 - page 4, line 10 * * page 7, line 4 - page 7, line 19 * -----	1-14	
Y	EP 0 323 621 A2 (ASEA BROWN BOVERI [DE]) 12 July 1989 (1989-07-12) * the whole document * * column 2, line 20 - column 2, line 45 * * column 3, line 15 - column 3, line 35 * -----	2,7	TECHNICAL FIELDS SEARCHED (IPC) G08B E05B
Y A	GB 2 032 666 A (AMERICAN DISTRICT TELEGRAPH CO) 8 May 1980 (1980-05-08) * the whole document * * page 1, line 89 - page 2, line 42 * * page 2, line 64 - page 2, line 83; figures 4,5 * -----	4,5 13,14	
A	GB 2 354 068 A (OPTEX CO LTD [JP]) 14 March 2001 (2001-03-14) * page 1, line 15 - page 3, line 13 * * page 25, line 17 - page 28, line 25; figures 1,2,3,7,10-20 * -----	1-14	

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	2 December 2011	Wright, Jonathan

CATEGORY OF CITED DOCUMENTS

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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
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02-12-2011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2286423 A	16-08-1995	NONE	
WO 9812068 A2	26-03-1998	AU 4430497 A	14-04-1998
		WO 9812068 A2	26-03-1998
EP 0323621 A2	12-07-1989	AT 118911 T	15-03-1995
		DE 3744399 A1	13-07-1989
		EP 0323621 A2	12-07-1989
GB 2032666 A	08-05-1980	AU 527042 B2	10-02-1983
		AU 5158579 A	24-04-1980
		FR 2439439 A1	16-05-1980
		GB 2032666 A	08-05-1980
		NL 7907623 A	18-04-1980
		US 4359721 A	16-11-1982
GB 2354068 A	14-03-2001	GB 2354068 A	14-03-2001
		JP 4092438 B2	28-05-2008
		JP 2001056887 A	27-02-2001
		KR 20010039823 A	15-05-2001
		TW 473698 B	21-01-2002
		US 6317040 B1	13-11-2001

EPO FORM P0459

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