



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
19.01.2005 Bulletin 2005/03

(51) Int Cl.7: **G08B 13/194**

(43) Date of publication A2:
20.09.2000 Bulletin 2000/38

(21) Application number: **00105069.9**

(22) Date of filing: **10.03.2000**

(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

(72) Inventor: **Langenbach, Julia, Dr.**
57258 Freudenberg (DE)

(74) Representative: **COHAUSZ & FLORACK**
Patent- und Rechtsanwälte
Bleichstrasse 14
40211 Düsseldorf (DE)

(30) Priority: **12.03.1999 DE 19911108**

(71) Applicant: **Delphi Technologies, Inc.**
Troy, MI 48007 (US)

(54) **Method and system for monitoring an interior**

(57) The invention relates to a method and a system for monitoring an interior. For detecting an object 3 trespassing into the interior a picture of the interior is compared with a previously taken background image showing the interior from the same angle when it is not disturbed by any trespassing object. A detecting means 30 takes a decision for detecting an object 3 trespassing into said interior in the case that there is a shadow 4',

4'' caused by said trespassed object 3 in the picture covering at least a section of said interior. In order to reduce the effort for detecting the object 3 trespassing into the interior the present invention proposes not to evaluate shadows in any part of the picture but only that shadows which cover at least a part of a predetermined relevant area of the interior through which trespassing of an object is most likely expected.

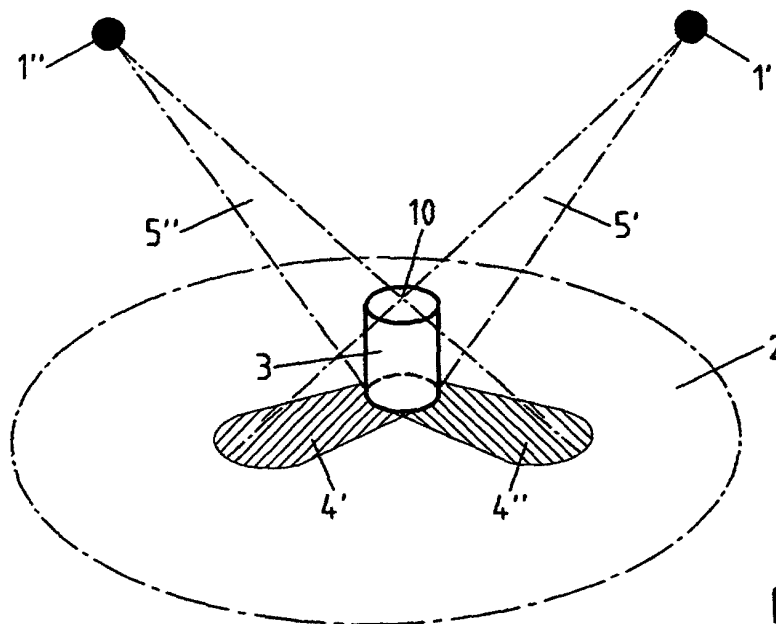


Fig.1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 10 5069

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DE 197 09 799 A (BOSCH GMBH ROBERT) 17 September 1998 (1998-09-17) * abstract * * column 1, line 35 - column 3, line 46 * -----	1-11	G08B13/194
X	GB 2 311 602 A (ROVER GROUP) 1 October 1997 (1997-10-01) * page 5, line 9 - line 19 * * page 6, line 4 - line 12 * * page 9, line 9 - page 10, line 7 * -----	1-11	
X	DE 196 21 612 A (C VIS COMPUTER VISION UND AUTO) 11 December 1997 (1997-12-11) * the whole document * -----	1-11	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G08B G06T B60R
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 8 November 2004	Examiner Gao, M
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			

EPO FORM 1503 03.82 (P04C01)

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

EP 00 10 5069

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.

08-11-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19709799	A	17-09-1998	DE 19709799 A1	17-09-1998
			WO 9840855 A1	17-09-1998
GB 2311602	A	01-10-1997	GB 2340938 A ,B	01-03-2000
DE 19621612	A	11-12-1997	DE 19621612 A1	11-12-1997