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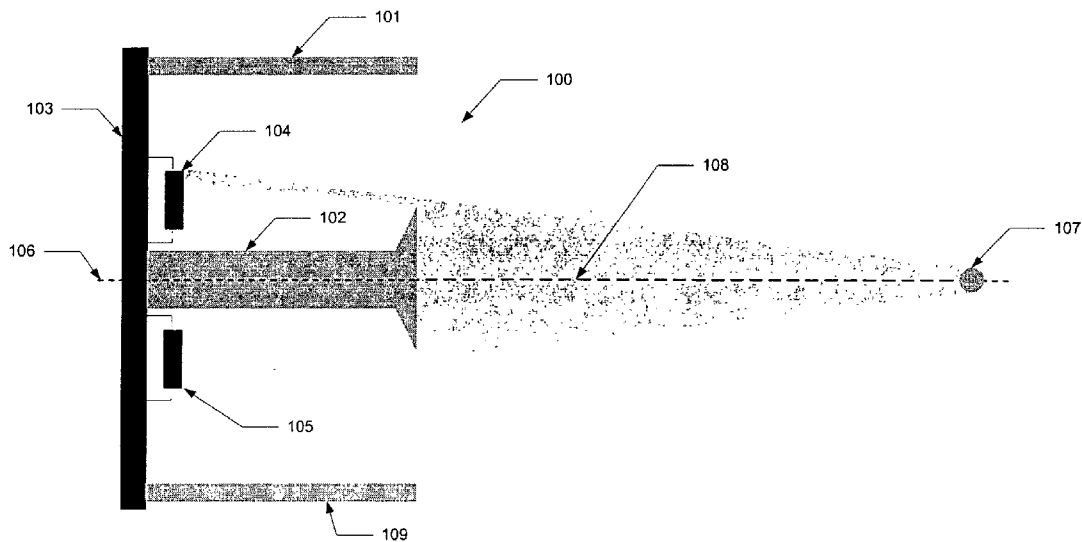
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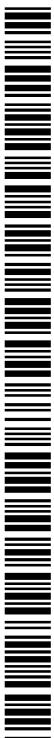
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- (54) Title: SIGNAL SOURCE TRACKING METHOD AND SYSTEM
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(57) Abstract: A light tracking system includes at least one emitter and at least one receiver array. The receiver array receives a light signal from a source by at least one receiver module of the array. The difference between the intensity of the light signal arriving at receivers of the receiver array is used to determine the approximate angular deviation from the direction of the light source. The position of the receiver array is adjusted so as to reduce the difference between the intensity of light arriving at receiver modules of the receiver array. Signal encoding is used to synchronize the receiver array to the emitter so as to allow for the transmission of binary commands from the emitter to the receiver array by way of the light signal produced by the emitter.



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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

Internⁿal Application No
PCT/IB 03/03746

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01S3/783 G01S3/786 H04L7/04		
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 G01S H04L		
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		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 315 690 A (TROCELLIER ROGER ET AL) 16 February 1982 (1982-02-16)	1-6,12, 16-21, 23, 25-28, 33-35
Y	column 1, line 45 -column 2, line 19 column 2, line 41 -column 3, line 20 column 5, line 60 -column 6, line 19; figures 1,9	9, 11, 29-32, 45-47
A	---	7,8,10, 13-15, 22,24, 36-44
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> 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 13 April 2004		Date of mailing of the international search report 28.04.2004
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 GÖRAN MAGNUSSON /ELY

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International Application No
PCT/IB 03/03746

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 20361 A (GEISSLER MICHAEL PAUL ALEXANDE) 22 March 2001 (2001-03-22) page 3, line 31 -page 6, line 11; figures 1-4 ---	1-6,23, 25-28, 33-35
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Y	US 4 710 028 A (MERLE JEAN-PIERRE ET AL) 1 December 1987 (1987-12-01) column 4, line 20 - line 22 abstract ---	29-32
Y	DE 31 44 823 A (SICK OPTIK ELEKTRONIK ERWIN) 26 May 1983 (1983-05-26) page 15, line 30 -page 16, line 18; figure 15 ---	45-47
X	US 5 260 976 A (DOLIVO FRANCOIS ET AL) 9 November 1993 (1993-11-09) column 2, line 18 -column 6, line 17; figures 1,2 ---	48-50, 54-56, 58,60,61
Y		51-53,59
X	US 5 408 504 A (OSTMAN KJELL I) 18 April 1995 (1995-04-18) column 1, line 6 -column 3, line 18 ---	48-50, 54,57, 60,61
Y	STANCZAK S ET AL: "Aperiodic properties of generalized binary Rudin-Shapiro sequences and some recent results on sequences with a quadratic phase function" BROADBAND COMMUNICATIONS, 2000. PROCEEDINGS, 2000 INTERNATIONAL ZURICH SEMINAR ON ZURICH, SWITZERLAND 15-17 FEB. 2000, PISCATAWAY, NJ, USA, IEEE, US, 15 February 2000 (2000-02-15), pages 279-286, XP010376429 ISBN: 0-7803-5977-1 page 279 -----	51-53,59

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 03/03746

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-47

Method for obtaining the directional information of an incident signal.

2. Claims: 48-61

Method for synchronizing an emitter and a receiver.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03746

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