(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 107 425**
A3

(12) EUROPEAN PATENT APPLICATION

(21) Application number: **83306065.0**

(22) Date of filing: **06.10.83**

(51) Int. Cl.³: **G 08 B 13/18**
H 04 N 7/18

(30) Priority: **21.10.82 GB 8230062**

(43) Date of publication of application:
02.05.84 Bulletin 84/18

(88) Date of deferred publication of search report: **14.11.84**

(84) Designated Contracting States:
DE FR GB IT

(71) Applicant: **JOHNSON MATTHEY PUBLIC LIMITED COMPANY**
43 Hatton Garden
London, EC1N 8EE(GB)

(72) Inventor: **Walter, Derek Oscar**
Parkthorne Silver Hill Perranwell Station
Nr. Truro Cornwall TR3 7LP(GB)

(74) Representative: **Arthur, Bryan Edward et al,**
Withers & Rogers 4 Dyer's Buildings Holborn
London EC1N 2JT(GB)

(54) Radiation pattern change detection.

(57) This invention relates to the detection of a change in a pattern of radiation and is concerned especially with the detection of such a change as a result of the movement of an object and/or its shadow and/or an image of an object, such as, for example, a television picture thereof. The term "radiation" is used to include ultra-violet radiation, visible light and infra-red radiation.

In more detail there is provided an apparatus for detecting a change in a pattern of radiation incident on the apparatus, comprising lens means, a first sensing means sensitive to said incident radiation and adapted to give a first output signal characteristic of said pattern, and a second such sensing means, adapted to give a second such output signal, said sensing means having different configurations and/or orientations of radiation-sensitive areas and said lens means together with said sensing means constituting an optical system, are arranged for incidence on said sensing means through said lens means of said radiation, and connected to comparator means in such a way that the latter receives said output signals, the arrangement being such that any change in said pattern of radiation causes a first consequent change in said first output signal and a second consequent change being different from said first consequent change by virtue of said different configurations and/or orientations of radiation-sensitive areas, and said comparator means being arranged to supply a signal which is a function of the said differing output signals and hence indicative of a change in said pattern of radiation.

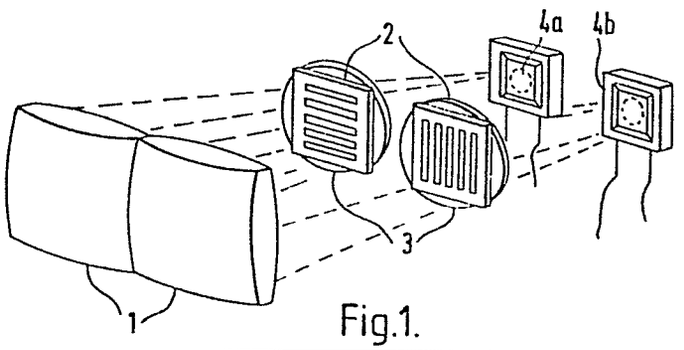

Fig.1.

EP 0 107 425 A3

Croydon Printing Company Ltd

European Patent Office

EUROPEAN SEARCH REPORT

0107425

Application number

EP 83306065.0

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. ³)
A	US - A - 3 928 843 (SPROUT et al.) * Abstract; column 2, line 11 - column 5, line 1; fig. 1-6 *	1,4,6,7	G 08 B 13/18 H 04 N 7/18
A	DE - A1 - 2 820 304 (KUHBIER) * Page 10, line 20 - page 12, line 8; fig. 1,2 *	1,4,6,7	
A	GB - A - 1 551 541 (BLOICE)		

TECHNICAL FIELDS SEARCHED (Int. Cl. ³)

G 08 B 13/00
H 04 N 7/00
G 01 J 1/00

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
VIENNA	21-08-1984	HAJOS

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