

Title (en)

METHOD FOR DETECTION OF OBJECTS USING OPTICAL AND OPTOELECTRONIC MEANS

Title (de)

VERFAHREN ZUR DETEKTION VON OBJEKTEN UNTER BENUTZUNG VON OPTISCHEN UND OPTOELEKTRONISCHEN MITTELN

Title (fr)

PROCEDE DE DETECTION ET SYSTEMES OPTIQUES ET OPTOELECTRONIQUES

Publication

EP 1012626 A2 20000628 (EN)

Application

EP 99935195 A 19990629

Priority

- RU 9900214 W 19990629
- RU 98112379 A 19980703

Abstract (en)

[origin: WO0002062A2] Invention relates to the field of optical detection and ranging, strictly to types of detection and recognition of a type of object with using of TV-methods of signals' identification and can be used within creating of burglar alarm systems. The reached technical result is object detection within disturbing signals and signaling organization of their appearance in a mode, decreasing possibility of object misdetection, caused by human factor - operator's fatigue. Method is based on sounding of controlled space volume by scanning impulse laser emission, receipt of optical image signals from the ordered distance, transduction of the received image signals into videosegment, threshold selection for elimination of background image, as well as on the fact, that sounding of space value is carried out with frequency, equal to f_1/n , and emitted impulses subsequence is coded by on-off keying with frequency ff/m , f_1 and ff are line and frame frequencies accordingly of the used TV method of signals transduction, n and m - natural numbers, fulfilling the terms $n \leq f_1/ff$, $2 \leq m \leq ff/2$, reveal videosegments, correlated with a code of on-off keying of emitted impulse subsequence, and form alarm signal automatically, and after transduction of videosegments into optical image - brightness twinkle of TV screen is fixed out with the help of operator, with a frequency of on-off keying.

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G01S 17/00

IPC 8 full level

G01S 17/89 (2020.01); **G01S 17/04** (2020.01); **G01S 17/18** (2020.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 0002062A2

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