

Title (en)

FLIGHT TIME SENSOR AND SURVEILLANCE SYSTEM COMPRISING SUCH A SENSOR

Title (de)

FLUGZEITSENSOR UND ÜBERWACHUNGSSYSTEM MIT EINEM SOLCHEN SENSOR

Title (fr)

CAPTEUR DE TEMPS DE VOL ET SYSTÈME DE SURVEILLANCE COMPORTANT UN TEL CAPTEUR

Publication

EP 3894886 A1 20211020 (FR)

Application

EP 19809075 A 20191126

Priority

- FR 1872981 A 20181214
- EP 2019082602 W 20191126

Abstract (en)

[origin: WO2020120128A1] The invention relates to a flight time sensor (10) comprising: - a lighting device (11) comprising a light source (12) which emits a source beam (13) in the direction of a scene (3) comprising an object (4) which is capable of reflecting the source beam; - a detector (15) comprising a matrix (16) of photo-sensitive pixels (16A) which receive a portion (18) of the source beam reflected by the object; and - an electronic unit (19) which is configured: - to generate a modulation signal and to control the device by means of this signal so that the source beam has a source light power which is modulated temporally; - to process electric signals which are supplied as a function of time by the detector, each electric signal representing a fraction of the source light power reflected in the direction of a pixel; and - to deduce from the electric signals a characteristic distance (Dobj) between the object and the device. According to the invention, the unit is configured, when the object is detected as being at a characteristic distance smaller than a predetermined threshold distance, to control the device in order to reduce the average source light power.

IPC 8 full level

G01S 7/486 (2020.01); **G01S 7/48** (2006.01); **G01S 17/89** (2020.01); **G06K 9/00** (2006.01)

CPC (source: EP US)

G01S 7/4802 (2013.01 - EP US); **G01S 7/4868** (2013.01 - EP US); **G01S 7/4873** (2013.01 - US); **G01S 17/36** (2013.01 - US); **G01S 17/894** (2020.01 - EP US); **G06V 20/59** (2022.01 - EP); **G06V 40/161** (2022.01 - EP); **G06V 2201/121** (2022.01 - EP US)

Citation (search report)

See references of WO 2020120128A1

Designated contracting state (EPC)

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