

Title (en)

OPTICAL SENSOR SYSTEM FOR DETECTING THE POSITION OF AN OBJECT

Title (de)

OPTISCHES SENSORSYSTEM ZUR DETEKTION DER POSITION EINES OBJEKTES

Title (fr)

SYSTEME OPTIQUE DESTINE A LA DETECTION DE LA POSITION D'UN OBJET

Publication

**EP 1062524 A1 20001227 (DE)**

Application

**EP 99919045 A 19990309**

Priority

- DE 9900620 W 19990309
- DE 19810368 A 19980310

Abstract (en)

[origin: WO9946612A1] The invention relates to a special light source which produces a horizontal strip of light. Said strip of light is reflected by objects in the vicinity of the sensor system and conducted to a photoelectric converter by a special imaging device. Said imaging device is configured in such a way that objects situated further away are represented as being somewhat further apart so that an ordinary objective with linear resolution can obtain better position resolution of objects situated further away from the sensor system over the entire imaging area. Advantageously, light-emitting diodes are provided on the optical axis of a cylindrical mirror as the light-emitting elements. The electrical signals emitted by the photoelectric converter are evaluated by an evaluation unit in relation to their position. Using triangulation, said evaluation unit then determines how far away the objects which reflected the light are situated.

IPC 1-7

**G01S 7/481**; **G01S 17/93**; **G01S 17/42**

IPC 8 full level

**G01B 11/00** (2006.01); **G01C 3/06** (2006.01); **G01S 7/48** (2006.01); **G01S 7/481** (2006.01); **G01S 17/42** (2006.01); **G01S 17/46** (2006.01); **G01S 17/48** (2006.01); **G01S 17/93** (2006.01); **G01S 17/931** (2020.01)

CPC (source: EP KR)

**G01S 7/4814** (2013.01 - EP KR); **G01S 7/4817** (2013.01 - EP KR); **G01S 17/42** (2013.01 - EP KR); **G01S 17/931** (2020.01 - EP KR); **G05D 1/0088** (2013.01 - KR); **G05D 1/0231** (2013.01 - KR)

Citation (search report)

See references of WO 9946612A1

Cited by

US11550054B2; US11709489B2; US10860029B2; US11709497B2; US11768494B2; US11789447B2; US11175670B2; US11188086B2

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9946612 A1 19990916**; CA 2322419 A1 19990916; CN 1292878 A 20010425; EP 1062524 A1 20001227; JP 2002506976 A 20020305; KR 20010041694 A 20010525

DOCDB simple family (application)

**DE 9900620 W 19990309**; CA 2322419 A 19990309; CN 99803884 A 19990309; EP 99919045 A 19990309; JP 2000535942 A 19990309; KR 20007009913 A 20000907