

Title (en)

OPTICAL RANGE AND SPEED DETECTION SYSTEM

Title (de)

OPTISCHES ENTFERNUNGS-UND GESCHWINDIGKEITSMESSSYSTEM

Title (fr)

SYSTEME OPTIQUE DE CALCUL DE LA DISTANCE ET DE LA VITESSE

Publication

EP 0877944 A4 19990421 (EN)

Application

EP 95910109 A 19950118

Priority

US 9500819 W 19950118

Abstract (en)

[origin: WO9622537A1] A passive optical speed and distance measuring system includes a pair of camera lenses (14, 18) positioned along a common baseline (60) a predetermined distance apart and controlled by an operator to capture images of a target at different times. The camera lenses (14, 18) are focused on light sensitive pixel arrays which capture target images at offset positions in the line scans of the pixel arrays. A video signal processor with a computer (30) determines the location of the offset positions and calculates the range to the target by solving the trigonometry of the triangle formed by the two camera lenses (14, 18) and the target. Once the range to the target is known at two different times the speed of the target is calculated.

IPC 1-7

G01P 3/36; **G01C 3/00**

IPC 8 full level

G01C 3/06 (2006.01); **G01C 3/08** (2006.01); **G01P 3/36** (2006.01); **G01S 11/14** (2006.01)

CPC (source: EP)

G01C 3/085 (2013.01); **G01P 3/36** (2013.01)

Citation (search report)

- [Y] DE 3642196 A1 19880623 - MEL MIKRO ELEKTRONIK GMBH [DE]
- [Y] US 4601053 A 19860715 - GRUMET ALEX [US]
- [A] EP 0035794 A1 19810916 - SIEMENS AG [DE]
- [A] US 4320302 A 19820316 - STEIN KARL U
- See references of WO 9622537A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9622537 A1 19960725; AU 1832995 A 19960807; AU 690230 B2 19980423; CA 2209610 A1 19960725; CA 2209610 C 20010327; EP 0877944 A1 19981118; EP 0877944 A4 19990421; JP H10512953 A 19981208

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