

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 A1 19981118 (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

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