

Title (en)

System, especially for timing races, containing a photosensor and method for adjusting the alignment of such a system on a finish line

Title (de)

System mit einem Photosensor, insbesondere zur Zeitmessung bei Wettkämpfen, und Einstellverfahren zum Ausrichten eines solchen Systems auf eine Ziellinie

Title (fr)

Système, notamment pour le chronométrage de courses; comportant un capteur photosensible et procédé de réglage de l'alignement d'un tel système sur une ligne de passage d'objets

Publication

EP 0898249 B1 20030502 (FR)

Application

EP 97114547 A 19970822

Priority

EP 97114547 A 19970822

Abstract (en)

[origin: EP0898249A1] Optical system to be placed in the extension of the crossing line or finishing line of a race having computer and electronic based means for precise alignment of the optical device with the crossing line. System comprises an optical device for projecting the image of a crossing line on to a photo-sensitive recorder, which generates electronic signals representative of the image projected by the optical device, means for treating the signal image, means for display of a video image of the image on a screen, where the original captured image is in the form of a matrix of pixels (CCD), treatment means for generation of a reticule superimposed of the video image, and means for extraction of a column of pixels form the capture matrix which corresponds to the reticule image on the screen.

IPC 1-7

G07C 1/24; **G04F 13/02**

IPC 8 full level

G04F 13/02 (2006.01); **G07C 1/24** (2006.01)

CPC (source: EP US)

G04F 13/02 (2013.01 - EP US); **G07C 1/24** (2013.01 - EP US)

Cited by

EP2887655A1; EP2887656A1; WO2011039376A1; EP1627531A4; EP3982337A1; US9286734B2; US9473755B2; US9521379B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0898249 A1 19990224; **EP 0898249 B1 20030502**; AT E239277 T1 20030515; AU 755152 B2 20021205; AU 7992198 A 19990304; CA 2245067 A1 19990222; CA 2245067 C 20060214; DE 69721520 D1 20030605; DE 69721520 T2 20040318; ES 2198522 T3 20040201; US 6411329 B1 20020625

DOCDB simple family (application)

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