Title (en)

METHOD AND DEVICE FOR DETERMINING THE TIME BETWEEN THE START AND FINISH OF COMPETITORS AND THE LIKE

Publication

EP 0291627 B1 19901205 (DE)

Application

EP 88100820 A 19880121

Priority

DE 3716987 A 19870521

Abstract (en)

[origin: US5103433A] The times of participants in automobile, foot, dog, bicycle or other races are ascertained by employing a video camera which takes pictures of the finish line and its surroundings at intervals of 1/25 second and by employing at least one photoelectronic detector which generates a signal when the winner or any other participant crosses the finish line and interrupts the beam of radiation between the radiation source and the transducer of the detector. Information denoting the times of taking the pictures and the times of those participants who or which have interrupted the beam of radiation is recorded on the pictures. The times of other participants who or which do not individually interrupt the beam of radiation are calculated on the basis of the recorded information and, if necessary, with assistance from a calculator which applies to the pictures a scale with lines spaced apart from each other by distances corresponding to those covered by a participant within 1/100 second.

IPC 1-7

G07C 1/24

IPC 8 full level

G04F 10/00 (2006.01); **G03B 15/00** (2006.01); **G04F 10/04** (2006.01); **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

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AT CH DE FR GB IT LI

DOCDB simple family (publication)

US 5103433 A 19920407; AT E58975 T1 19901215; DE 3716987 C1 19880428; DE 3861206 D1 19910117; EP 0291627 A2 19881123; EP 0291627 A3 19890614; EP 0291627 B1 19901205; JP S63300994 A 19881208

DOCDB simple family (application)

US 19512388 A 19880516; AT 88100820 T 19880121; DE 3716987 A 19870521; DE 3861206 T 19880121; EP 88100820 A 19880121; JP 1748688 A 19880129