

Title (en)

METHOD AND DEVICE FOR DETERMINING THE TIME BETWEEN START AND FINISH OF ATHLETES OR SUCHLIKE

Publication

EP 0432352 A3 19911227 (DE)

Application

EP 90110891 A 19900608

Priority

DE 3937977 A 19891115

Abstract (en)

[origin: US5105395A] The times which elapse while the participants in a race or another contest cover the distance between a starting line and a finish line are ascertained, at an accuracy of one hundredth of a second, with a camera which takes pictures of the finish line at a first frequency and transmits picture signals to a pulse amplifier as well as to a mixing stage which latter transmits picture signals to a video recorder. A timing pulse generator transmits signals at a frequency of one thousandth of a second; such signals are processed in a second generator which transmits processed signals to a pulse separator connected with the output of the amplifier of picture signals. This ensures that each picture receives and exhibits information denoting the exact instant of taking the respective picture irrespective of the frequency of picture taking. The timing pulse generator is started in response to firing of a starter gun, and the picture which is taken at or immediately after the time a contestant crosses the finish line further contains information denoting the exact instant of activation of a photoelectronic detector which monitors the finish line.

IPC 1-7

G07C 1/24

IPC 8 full level

G04F 10/00 (2006.01); **G03B 17/24** (2006.01); **G04F 13/02** (2006.01); **G07C 1/22** (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)

Citation (search report)

- [YD] EP 0291627 A2 19881123 - IMHOF AUGUSTIN
- [A] EP 0002870 A1 19790711 - LONGINES MONTRES COMP D [CH]
- [A] EP 0207675 A1 19870107 - YAMAGUCHI CINEMA KK [JP]
- [Y] UHREN-JUWELEN-SCHMUCK Nr. 2, 1984, BIELEFELD, DEUTSCHLAND Seite 188; 'INTELLEGENTER ZEITMESSER'
- [A] LA SUISSE HORLOGERE ET REVUE INTERNATIONALE DE L'HORLOGERIE Bd. 83, Nr. 3, September 1968, Seiten 51 - 56; 'OBJECTIF MEXICO'
- [A] DIE UHR Bd. 27, Nr. 12, 25. Juni 1972, Seiten 30 - 31; 'FERNSEHZEITMESSUNG'

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DOCDB simple family (application)

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