

Title (en)

METHOD AND SYSTEM FOR MEASURING REACTION TIME AT THE START OF A RACE

Title (de)

VERFAHREN UND SYSTEM ZUM MESSEN EINER REAKTIONSZEIT ZU BEGINN EINES RENNENS

Title (fr)

PROCEDE ET SYSTEME DE MESURE D'UN TEMPS DE REACTION AU DEPART D'UNE COURSE

Publication

**EP 3139348 B1 20201216 (FR)**

Application

**EP 15183711 A 20150903**

Priority

EP 15183711 A 20150903

Abstract (en)

[origin: JP2017047205A] PROBLEM TO BE SOLVED: To improve a method of measuring or determining a reaction time of an athlete in a start time of a race.SOLUTION: A method of the invention can measure a reaction time of an athlete in a start time of a race by using an individualized transponder module (1) which is at a position of the athlete, and a base station (10). The transponder module comprises a reception unit (3), a processor (4), a transmission unit (5) for transmitting a data signal, and motion sensors (7,8) for supplying a measurement signal to the processor. The transponder module is activated by a received wakeup signal, and motion is measured by the sensors in a start time of a race. The data signal is transmitted to the base station, then a reaction time of the athlete in a start time of the race is determined, and if the reaction time after the start signal, is less than a prescribed threshold value time, it is determined that the start of the athlete is a potential dishonest start.SELECTED DRAWING: Figure 1

IPC 8 full level

**G07C 1/22** (2006.01); **A63B 69/00** (2006.01)

CPC (source: EP US)

**A63B 24/0062** (2013.01 - EP US); **A63B 71/0605** (2013.01 - EP US); **A63K 3/023** (2013.01 - EP US); **G07C 1/22** (2013.01 - EP US); **A63B 2220/34** (2013.01 - EP US); **A63B 2220/36** (2013.01 - US); **A63B 2220/40** (2013.01 - EP US); **A63B 2220/836** (2013.01 - EP US); **A63B 2225/50** (2013.01 - EP US)

Citation (examination)

WO 2015106077 A1 20150716 - UNDER ARMOUR INC [US]

Cited by

CN110474708A; CN111544906A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3139348 A1 20170308**; **EP 3139348 B1 20201216**; JP 2017047205 A 20170309; JP 6280602 B2 20180214; US 10653935 B2 20200519; US 2017065871 A1 20170309

DOCDB simple family (application)

**EP 15183711 A 20150903**; JP 2016168991 A 20160831; US 201615251463 A 20160830