

Title (en)

System for the identification and the determination of the passing moment of a plurality of moving objects at a predetermined point of their travel path.

Title (de)

Einrichtung zur Identifizierung und zur Bestimmung des Zeitpunktes des Passierens einer Vielzahl bewegter Körper an einem bestimmten Punkt ihrer Umlaufbahn.

Title (fr)

Installation pour l'identification et la détermination de l'instant du passage d'une pluralité de mobiles en un point déterminé de leur trajectoire.

Publication

EP 0074330 A1 19830316 (FR)

Application

EP 82810312 A 19820719

Priority

- CH 575181 A 19810907
- FR 8118752 A 19811002

Abstract (en)

1. A system for identifying a plurality of moving bodies at a particular point of their path of travel and for determining the instant at which they pass said point, comprising near said point a stationary station (1) which includes a transceiver for transmitting a radio-electric signal having a set frequency (f1) and for receiving radio-electric identification signals from the various moving bodies, each of said bodies also including an on-board transceiver (2) for receiving said radio-electric signal, for producing, in response to this signal, one of said identification signals with a frequency (fi) that is different all of the other frequencies at which the transceivers (2) on board the other moving bodies can transmit thereby to identify the moving body concerned, and for transmitting this identification signal to said stationary station (1), said on-board transceiver (2) having an oscillator (12) for producing said identification frequency (fi), and switching means (15, 16, 17) that will allow said on-board transceiver (2) to be supplied with energy only during the time said radio-electric signal being transmitted by said stationary station is being received, said station including also means (4) for processing the identification signals to determine, for each signal, the identity of the moving body that transmitted it and the instant when this moving body moves past said stationary station, said system being characterized in that each on-board transceiver (2) has means (a) for converting the frequency (f1) of the signal that is received from said stationary station (1) into a set frequency (f2) able to stabilize said oscillator (12), and control means (10, 11, 13, 14, 15) that are connected between said frequency conversion means (9) and said oscillator (12) such that the respective frequencies (fi) of the identification signals generated by said oscillators (12) be progressively graded between a lowermost frequency (f3) and an uppermost frequency (f4) and separated from one another by a frequency difference of constant value equal to the value in hertz of the frequency (f2) that is produced by said conversion means (9), the frequency (f1) of the signal being transmitted by the stationary station (1) thus being the only reference that is common to all of the frequencies (fi) of said identification signals.

Abstract (fr)

L'installation comprend notamment un dispositif embarqué (2) sur chaque mobile, une antenne réceptrice fixe (3) et des moyens de traitement (4) des signaux d'identification émis par les dispositifs embarqués (2). En outre, un émetteur (22) est prévu pour envoyer aux dispositifs (2) un signal de pilotage qui sert d'une part à déclencher les moyens d'élaboration (10 à 13) des signaux d'identification, et qui sert d'autre part de signal de référence à ces moyens qui ne comportent donc pas de base de temps propre. Cette installation est particulièrement bien adaptée pour le chronométrage des courses automobiles.

IPC 1-7

G07C 1/24; G08G 1/12

IPC 8 full level

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CPC (source: EP)

G07C 1/24 (2013.01); **G07C 9/28** (2020.01); **G08G 1/017** (2013.01)

Citation (search report)

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