

Title (en)

DETERMINING THE PEDALLING CADENCE OF A CYCLIST

Title (de)

BESTIMMUNG DER TRITTFREQUENZ EINES RADFAHRERS

Title (fr)

DÉTERMINATION DE LA CADENCE DE PÉDALAGE D'UN CYCLISTE

Publication

**EP 3794378 A1 20210324 (FR)**

Application

**EP 19732408 A 20190510**

Priority

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- FR 2019051065 W 20190510

Abstract (en)

[origin: WO2019220040A1] The invention is based on the observation that, considering the pedalling movement, the power developed by a cyclist takes the form of a permanent sine curve with a frequency that is double the pedalling frequency. This cyclic power variation results in a small oscillation of the speed of the cyclist, the amplitude of which can be observed through GNSS phase measurements which are more precise by an order of magnitude. A first aspect of the invention relates to a method for determining the pedalling cadence of a cyclist (10) on a cycle (12), wherein the pedalling cadence is extracted from an oscillation of GNSS signal phase measurements (16) taken on the cycle (12) via a GNSS receiver (14) or an oscillation of measurements calculated on the basis of the phase measurements.

IPC 8 full level

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