

Title (en)  
SYSTEM AND METHOD FOR DETECTING THE WALK OF A PERSON

Title (de)  
SYSTEM UND VERFAHREN ZUR ERKENNUNG DER GANGART EINER PERSON

Title (fr)  
SYSTEME ET PROCEDE DE DETECTION DE MARCHE D'UNE PERSONNE

Publication  
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Application  
**EP 10705367 A 20100225**

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Abstract (en)  
[origin: WO2010097422A1] The invention relates to a system for detecting the walk of a person, provided with a housing (BT) including an at least biaxial motion sensor (CM), said housing being suitable for being attached to the upper part of the body of said person such that a first axis of measurement of said sensor (CM) coincides with the anteroposterior axis (AP) or the vertical axis (VT) of said body, and that a second axis of measurement of said sensor (CM) coincides with the medio-lateral axis (ML) of said body, said system additionally being provided with a means (MA) for analysing the measurements output by said sensor (CM), wherein said analysis means (MA) includes: a means (MT) for processing the measurement signals output by said sensor (CM) during a window of time, including a means for searching for a dominant frequency (MRFD) in said signals; and a means for detecting (MD) the walk of the person when a ratio between the dominant frequency of the signal of the first axis of measurement and the dominant frequency of said second axis of measurement, or between the dominant frequency of a Euclidean norm of the vector of measurements transmitted by said sensor (CM) and the dominant frequency of the signal of the second axis of measurement, is substantially equal to two.

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