

Title (en)
A TIME-OF-FLIGHT MEASUREMENT SYSTEM AND A METHOD OF OPERATING THE SYSTEM

Title (de)
FLUGZEITMESSSYSTEM UND VERFAHREN ZU SEINEM BETRIEB

Title (fr)
SYSTEME DE MESURE DU TEMPS DE VOL ET PROCEDE D'UTILISATION DE CE SYSTEME

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Application
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Priority
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• GB 0404857 A 20040304

Abstract (en)
[origin: WO2005088561A2] A time-of-flight ranging system, such as a keyless entry system, comprises a first part (10) and a second part (12) which may implemented as a portable device such as a key fob. Both parts have signal transmitting and receiving means (14, 22 and 26, 32) for effecting communication with each other. The signal transmitting and receiving means introduce non-predictable time delays in their respective internal signal propagation paths. The first part includes a controller (18) for determining the time-of-flight of the signals io between the parts. In order to allow for the non-predictable time delays, the first and second parts are located within a known distance of each other and the time-of flight over the known distance is measured, the time difference between the measured time-of-flight and a theoretical time-of-flight over the known distance is determined and is used to adjust the measured time-of-flight is and thereby the range. The time-of-flight ranging system may be applied to not only entry security systems but also to tracking systems such as systems for tracking toddlers, personnel and equipment.

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CPC (source: EP)
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