

Title (en)
SYSTEMS AND METHODS FOR COARSE AND FINE TIME OF FLIGHT ESTIMATES FOR PRECISE RADIO FREQUENCY LOCALIZATION IN THE PRESENCE OF MULTIPLE COMMUNICATION PATHS

Title (de)
SYSTEME UND VERFAHREN FÜR GROBE UND FEINE FLUGZEITSCHÄTZUNGEN ZUR PRÄZISEN FUNKFREQUENZLOKALISIERUNG IN GEGENWART MEHRERER KOMMUNIKATIONSWEGE

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR DES ESTIMATIONS DE TEMPS DE VOL GROSSIÈRES ET FINES POUR UNE LOCALISATION PAR RADIOFRÉQUENCE PRÉCISE EN PRÉSENCE DE PLUSIEURS VOIES DE COMMUNICATION

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Application
EP 18853876 A 20180906

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Abstract (en)
[origin: WO2019051040A2] Systems and methods for determining locations of wireless nodes in a network architecture are disclosed herein. In one example, an asynchronous system includes a first wireless node having a wireless device with one or more processing units and RF circuitry for transmitting and receiving communications in the wireless network architecture including a first RF signal having a first packet. The system also includes a second wireless node having a wireless device with a transmitter and a receiver to enable bi-directional communications with the first wireless node in the wireless network architecture including a second RF signal with a second packet. The one or more processing units of the first wireless node are configured to execute instructions to determine a coarse time of flight estimate of the first and second packets and a fine time estimate of the time of flight using channel information of the first and second wireless nodes.

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