

Title (en)

A GNSS REPEATER ARCHITECTURE AND LOCATION FINDING METHOD FOR INDOOR POSITIONING SYSTEMS USING LOWER FREQUENCIES THAN GNSS SIGNALS

Title (de)

GNSS-REPEATER-ARCHITEKTUR UND STANDORTLOKALISATIONSVERFAHREN FÜR INNENPOSITIONSSYSTEME MIT NIEDRIGEREN FREQUENZEN ALS GNSS-SIGNALE

Title (fr)

ARCHITECTURE DE RÉPÉTEUR DE GNSS ET PROCÉDÉ DE RECHERCHE DE LOCALISATION DE SYSTÈMES DE POSITIONNEMENT EN INTÉRIEUR AU MOYEN DE FRÉQUENCES INFÉRIEURES À CELLES DE SIGNAUX DE GNSS

Publication

**EP 4118459 A1 20230118 (EN)**

Application

**EP 20727742 A 20200313**

Priority

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Abstract (en)

[origin: WO2021183067A1] The disclosed invention refers to a system for indoor positioning comprising a multiplicity of antennas collecting satellite navigation signals emitted by a multiplicity of satellites, repeaters (each repeater with different set of satellites) for producing secondary signals different from said satellite navigation signals and propagating said secondary signals and at least one receiver capable of receiving and processing said secondary signals to compute location information. Said secondary signals are contained in a lower frequency ISM band (such as 433 MHz) whereby free path loss is reduced and coverage is increased due to higher transmit power levels. Said at least one receiver is configured to execute a clock bias-based pseudorange triangulation algorithm.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2021183067A1

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DOCDB simple family (publication)

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