

Title (en)
METHOD FOR GEOLOCATING AN ITEM OF USER EQUIPMENT RECEIVING A PLURALITY OF RADIOFREQUENCY BEAMS TRANSMITTED BY A BASE STATION OF A RADIOCOMMUNICATIONS NETWORK, CORRESPONDING COMPUTER PROGRAM PRODUCT AND DEVICE

Title (de)
VERFAHREN ZUM GEOLOKALISIEREN EINER BENUTZERAUSRÜSTUNG, DIE EINE VIELZAHL VON HOCHFREQUENZSTRAHLEN EMPFÄNGT, DIE VON EINER BASISSTATION EINES FUNKKOMMUNIKATIONSNETZES GESENDET WERDEN, ENTSPRECHENDES COMPUTERPROGRAMMPRODUKT UND VORRICHTUNG

Title (fr)
PROCEDE DE GEOLOCALISATION D'UN EQUIPEMENT UTILISATEUR RECEVANT UNE PLURALITE DE FAISCEAUX RADIOFREQUENCES EMIS PAR UNE STATION DE BASE D'UN RESEAU DE RADIOCOMMUNICATIONS, PRODUIT PROGRAMME D'ORDINATEUR ET DISPOSITIF CORRESPONDANTS

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Abstract (en)
[origin: WO2021116595A1] The invention relates to a method for geolocating an item of user equipment receiving a plurality of radiofrequency beams transmitted by a base station of a radiocommunications network. Such a method comprises: - obtaining (E300) a power measured by the item of user equipment for each radiofrequency beam of the plurality of radiofrequency beams delivering a corresponding set of measured powers; - calculating (E310) at least one item of information, referred to as an item of relative power information, representing a ratio or a difference between two powers of the set of measured powers associated with two corresponding radiofrequency beams; and - determining (E320) a position of the user equipment using, on one hand, the at least one item of relative power information and, on the other hand, for each item of relative power information and for each radiofrequency beam associated with the relative power information, an antenna radiation pattern model characterizing the power, according to an observation direction, of the radiofrequency beam associated with the item of relative power information.

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CPC (source: EP)
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