

Title (en)
Method of detecting a jamming transmitter affecting a communication user equipment and system, user equipment and communication module

Title (de)
Verfahren zur Erkennung eines ein Kommunikationsbenutzergerät beeinflussenden Störsenders und System, Benutzergerät und Kommunikationsmodul

Title (fr)
Procédé de détection d'un émetteur parasite affectant un équipement d'utilisateur de communication et système, équipement d'utilisateur et module de communication

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Application
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Abstract (en)
The invention refers to a method of detecting a jamming transmitter affecting a communication user equipment (UE), wherein said communication user equipment (UE), in particular having a communication module (1), is adapted for communication with a component of a radio network (RN), like a radio network (RN) based on a cellular global system for mobile communications (GSM), having a number of user equipments (UE) and a number of base stations (BS), wherein said method is characterized by: - providing the user equipment (UE) in a connected mode of a communication radiolink with the component of the radio network (RN); wherein in the connected mode of said user equipment (UE) the steps are provided: - setting a first, in particular early, power indicator indicative of a received radio signal strength, wherein the early power indicator set is assumed for an unaffected state of the user equipment (UE); - providing a radiolink evaluation, evaluating whether the communication radiolink is affected by a radiolink error, and wherein - in case of a radiolink error identification a second, in particular later, power indicator is determined indicative of a received radio signal strength, wherein the second power indicator determined is defined for an affected state of the user equipment (UE); - comparing the first power indicator to the second power indicator, in particular comparing the early power indicator from a first time (t1) to the later power indicator from a second time (t2), - indicating a jamming affection in case the comparison shows that the received radio signal strength is unchanged or has increased.

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Citation (applicant)
• WO 2005112321 A1 20051124 - DAI TELECOM S P A [IT], et al
• WO 2007019814 A1 20070222 - SIEMENS AG [DE], et al

Citation (search report)
• [I] CA 2433242 A1 20040103 - NEWTRAX TECHNOLOGIES INC [CA]
• [ID] WO 2007019814 A1 20070222 - SIEMENS AG [DE], et al
• [ID] WO 2005112321 A1 20051124 - DAI TELECOM S P A [IT], et al
• [I] EP 1363421 A2 20031119 - BOOMERANG TRACKING INC [CA]

Cited by
EP3026835A1; US10263726B2; WO2016083390A1

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