

Title (en)

CHANNEL SELECTION METHOD IN GSM/DCS-BASED CELLULAR RADIO NETWORK

Title (de)

KANALSELEKTIONSVERFAHREN IN EINEM GSM/DCS-BASIERTEN ZELLULAREN FUNKNETZ

Title (fr)

PROCEDE DE SELECTION DE CANAL DANS UN RESEAU DE RADIOPROPAGATION CELULAIRE BASE SUR GSM/DCS

Publication

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Application

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Abstract (en)

[origin: WO9848586A2] The invention relates to a selection of a physical channel in a GSM/DCS-based cellular radio network. More specifically, the invention relates to a selection of a fixed physical control channel and to a selection of a physical traffic channel. The base station (100) comprises a list of physical channels allowed for said base station (100). In the method, interference levels of allowed physical channels are measured and the physical channels to be used for a radio link (108) are selected on the basis of the measured interference level. The base station (100) selects from the allowed physical channels it has measured those channels which have the lowest interference level as fixed physical control channels. Depending on the situation, the subscriber terminal (104) and possibly the base station (100) select the physical traffic channels. A physical channel located at a distance of a fixed frequency spacing from the selected physical traffic channel downlink is selected as a physical traffic channel uplink. Or the frequency spacing between the selected physical traffic channels between downlink and uplink is of random size.

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