



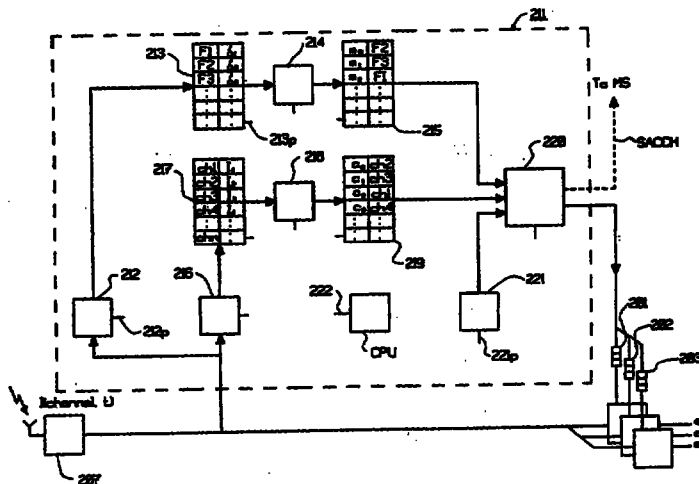
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(54) Title: CHANNEL HOPPING IN A RADIO COMMUNICATIONS SYSTEM



(57) Abstract

The invention relates to a method and to an arrangement for effecting base orthogonal channel hopping between mobile stations (MS1-MS3) and a base station in a radio communications system. Connections (F1-F3) having low attenuation are allotted a number of channels having high interference I (channel, t). Connections (F1-F3) that have higher attenuation are allocated a number of channels that have lower interference I (channel, t). A channel allocation means (211) in the base station functions to produce channel hopsequences which are transferred to hopsequence lists (204-206) in the mobile stations (MS1-MS3), via a control channel SACCH. The channel hopsequences are also transferred to corresponding hopsequence lists (201-203) in the base station. Attenuation of the connections (F1-F3) and interference on the channels I (channel, t) are measured continuously in the channel allocating means (211), wherein the best channels with respect to interference are used. The channel allocation means creates the channel hop sequences in accordance with the principle that the better a connection with respect to attenuation, the poorer the channels with respect to interference that are allocated to the connection.

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