A METHOD AND A DEVICE FOR THE UTILIZATION OF CHANNELS IN A RADIO COMMUNICATION SYSTEM

ABSTRACT

A method for optimizing the use of channels, the changing of channels and handover procedures in a mobile telecommunications system for instance, wherein parameters (C/I, P, I, L, N, ρ, m) belonging to the mobile telecommunications system generate the load values (Bc, Bp, Bi, Bl, Bn, Bρ, Bm) for the connections via different channels/base stations between subscribers in a public telephone network and mobile stations in the mobile telecommunications systems. Different kinds of parameters can be compared directly by means of the load values (Bc, Bp, Bi, Bl, Bn, Bρ, Bm) which are combined (S1-S5) to provide a total load value (B_{tot2}, B_{tot4}) for each connection. A first total load value (B_{tot2}) is generated for a connection set-up between one of the subscribers and one of the mobile stations. The total load values (B_{tot4}, B_{tot5}) for the connection are estimated for alternative channels/base stations and these total load values are compared with the first total load value (B_{tot2}). The system changes to the channel/base station that has the most favourable load value (B_{tot4}), on the basis of the comparison. The load values (B_{tot2}, B_{tot4}) can also be used to optimize the resources within one or more base stations, so that the sum of the load values for the connections within one or more base stations will become the most advantageous.

Figure 11 for publication.