

(Fig. 5)

ABSTRACT

CELLULAR RADIO

A cellular radio system comprising: a plurality of base stations each having a radio transceiver serving a cell of the system; a mobile station having a radio transceiver for communicating with one or other of the base stations; the system having on the one hand first means ($LTA_0, LTA_1, \dots, LTA_N$) for time averaging handover criterion (HOC) measurements over a first averaging period, means (S_H) for applying a first hysteresis margin to the time averaged HOC measurements to provide a first handover indicator, and having on the other hand a second means ($STA_0, STA_1, \dots, STA_N$) for time averaging HOC measurements over a second averaging period which is relatively short compared to the first averaging period, and means (S_W) for applying a second hysteresis margin, which is relatively large compared to the first hysteresis margin, to the time averaged HOC measurements to provide a second handover indicator, and means (OR_1) for assessing handover requirements of the mobile station on the basis of the first and second handover indicators; whereby on the one hand relatively gradual variations in HOC can be assessed and on the other hand relatively sudden variations in HOC can also be assessed.