

ABSTRACT

A sync signal transmission method is proposed to reduce the load imposed on a mobile station in carrying out neighboring cell search or base station selection. The sync signal transmission method is applied to a CDMA mobile communications system including at least a plurality of base stations and a mobile station. It carries out double spreading of information symbols using a short period spreading code and a long period spreading code, wherein the short period spreading code has a repetition period identical to a period of the information symbols and is assigned in common to all the base stations, and the long period spreading code has a repetition period longer than the information symbols and is differently assigned to each of said base stations; and intermittently transmits a sync signal, which is spread by only the short period spreading code, from the plurality of base stations to the mobile station, transmission timings shifted by a predetermined interval for each of the base station. The sync signal spread by only the short period spreading code can also be transmitted with transmission timings shifted by a predetermined interval for each of a plurality of sectors in a cell.

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