ABSTRACT

MOBILE TERMINAL APPARATUS AND RADIO STATION APPARATUS

To provide a mobile terminal apparatus and radio base station apparatus supporting each of a plurality of mobile communication systems when the plurality of mobile communication systems coexists, the mobile terminal apparatus performs a cell search using an SCH signal included in one downlink CC among a plurality of downlink CCs, the radio base station apparatus broadcasts a DBCH signal including information of an uplink CC paired with an initial downlink CC including the SCH signal obtained by the cell search, and transmits a response signal of an RACH signal from the mobile terminal apparatus to the mobile terminal apparatus in the initial downlink CC, the mobile terminal apparatus transmits a shared channel signal including information of a transmission/reception bandwidth of the mobile terminal apparatus to the radio base station apparatus in the uplink CC, the radio base station apparatus transmits a control signal including assignment information of a downlink CC and an uplink CC based on the information of the transmission/reception bandwidth of the mobile terminal apparatus to the mobile terminal apparatus, and the radio base station apparatus and the mobile terminal apparatus communicate with each other in the downlink CC and the uplink CC based on the assignment information after random access.

Fig. 7