

MOBILE COMMUNICATION SYSTEMS

ABSTRACT OF THE DISCLOSURE



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A mobile communication system includes a base station connected to a backbone network, and a mobile station configured to communicate with the base station using a radio frequency. The system has a first communication mode, in which a first radio frequency is used for an uplink and a second radio frequency is used for a downlink; a second communication mode, in which the first radio frequency is used for the uplink, and the second radio frequency is shared by the uplink and the downlink; a third communication mode, in which the second radio frequency is used for the downlink, and the first radio frequency is shared by the uplink and the downlink; and a mode switcher configured to switch the first through third communication modes in accordance with data transfer volumes on the uplink and the downlink.

FIG. 10