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**Jo et al.**

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(54) **SCHEDULING METHOD, MS APPARATUS USING THE SCHEDULING METHOD, DATA TRANSMISSION METHOD, AND BS APPARATUS USING THE DATA TRANSMISSION METHOD IN WIRELESS COMMUNICATION SYSTEM**

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(52) **U.S. Cl.**  
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See application file for complete search history.

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(57) **ABSTRACT**

In the MS apparatus for performing scheduling, a reception module receives any number information through a specific downlink channel in a first time unit from each of neighbor BSs. A scheduling module determines, among the neighbor BSs, a BS which is to transmit and receive data using a downlink data transmission region and an uplink data reception region, respectively, in a second time unit according to a previously set rule based on the number information. A transmission module transmits a signal, indicating that data transmission and reception using the downlink transmission region and uplink data reception region, respectively, in the second time unit are not possible, to the other neighbor BSs excluding the determined BS among the neighbor BSs.

**14 Claims, 9 Drawing Sheets**

