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(54) **APPARATUS AND METHOD FOR RECEIVING DATA IN A MOBILE COMMUNICATION SYSTEM USING AN ADAPTIVE ANTENNA ARRAY TECHNIQUE**

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See application file for complete search history.

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(57) **ABSTRACT**

A mobile communication system receives a reception signal of a reception signal, and performs a control operation such that a weight for generating a reception beam is calculated using a first technique if a difference between an error sum value at a current time and an error sum value at a previous time is greater than an absolute value of a first threshold or the error sum value at the current time is greater than or equal to a second threshold, and performs a control operation such that the weight is calculated using a second technique if the different between the error sum value at the current time and the error sum value at the previous time is less than or equal to the absolute value of the first threshold and the error sum value at the current time is less than the second threshold.

**30 Claims, 10 Drawing Sheets**

