

ABSTRACT OF THE DISCLOSURES

The diversity apparatus of the present invention includes: the detecting unit for detecting reception phase data for each symbol from a reception signal based on a standard
5 carrier wave reproduced from the reception signal; the combining unit for combining respectively a plurality of I-components and a plurality of Q-components in the reception phase data; and the demodulating unit for obtaining digital
10 symbol data respectively from a piece of combined I-component and a piece of combined Q-component. The detecting unit reproduces the standard carrier wave from the reception signal by referring to the symbol data. This construction provides
stable reproduction of carrier waves since the diversity apparatus reproduces the standard carrier waves by using the
15 demodulation data which is obtained from the reception data after diversity combination.