

[0020]

Embodiments of the present disclosure make it possible to perform communication with a higher efficiency.

[Solution to Problems]

[0021]

According to a first aspect of the present disclosure, there is provided a wireless communication apparatus including a preamble generation section configured to generate a preamble that is to be deployed at a top of a transmission frame and includes header information, a midamble generation section configured to generate a midamble that is to be deployed in a middle of the transmission frame and includes information of at least part of the header information, and a wireless transmission processing section configured to transmit the transmission frame including the preamble and the midamble.

[0022]

According to a second aspect of the present disclosure, there is provided a wireless communication method including the steps of generating a preamble that is to be deployed at a top of a transmission frame and includes header information, generating a midamble that is to be deployed in a middle of the transmission frame and includes information of at least

part of the header information, and transmitting the transmission frame including the preamble and the midamble.

[0023]

In the above aspects of the present disclosure, a preamble that is to be deployed at the top of a transmission frame and includes header information is generated, and a midamble that is to be deployed in the middle of the transmission frame and includes information of at least part of the header information is generated. Then, the transmission frame including the preamble and the midamble is transmitted.

[0024]

According to a third aspect of the present disclosure, there is provided a wireless communication apparatus including a wireless reception processing section configured to receive a reception frame that includes a preamble deployed at a top of the reception frame and including header information and a midamble deployed in a middle of the frame and including information of at least part of the header information, and a midamble detection section configured to detect the midamble from the reception frame and extract the information of the at least part of the header information included in the midamble.

[0025]

According to a fourth aspect of the present disclosure, there is provided a wireless communication method including

the steps of receiving a reception frame that includes a preamble deployed at a top of the reception frame and including header information and a midamble deployed in a middle of the frame and including information of at least part of the header information, and detecting the midamble from the reception frame and extracting the information of the at least part of the header information included in the midamble.

[0026]

In the above aspects of the present disclosure, a reception frame that includes a preamble deployed at the top of the reception frame and including header information and a midamble deployed in the middle of the frame and including information of at least part of the header information is received, and the midamble is detected from the reception frame. Then, the information of the at least part of the header information included in the midamble is extracted.

[Advantageous Effect of Invention]

[0027]

According to the above aspects of the present disclosure, communication can be performed with a high efficiency.

[0028]