CLAIMS

Claim 1 A communication apparatus, comprising:

a receiver, which, in operation, receives resource assignment information indicating a set of interlace indices of a plurality of sets of interlace indices including index sets {#i} and {#i, #j} where i and j are integers larger than or equal to 0; and

a transmitter, which, in operation, transmits an uplink signal on first resource blocks (RBs) within a band,

wherein, a number of the first RBs is the largest integer which is based on one or more specific prime numbers that are two, three and five and which is not greater than a number of second RBs, wherein the number of second RBs is not based on the one or more specific prime numbers and is indicated by the set of interlace indices.

Claim 2 The communication apparatus according to claim 1, wherein the first RBs are the lowest RBs among the second RBs indicated by the set of interlace indices.

Claim 3 The communication apparatus according to claim 1, wherein each of the interlace indices indicates a plurality of RBs arrayed at an equal spacing in a frequency domain.

Claim 4 The communication apparatus according to claim 1, wherein the resource assignment information indicates the set of interlace indices, which includes two {#i, #j} or more interlace indices.

Claim 5 The communication apparatus according to claim 1, wherein a size of the uplink signal is determined based on the first RBs.

Claim 6 The communication apparatus according to claim 1, wherein each of the interlace indices indicates a different number of RBs.

Claim 7 The communication apparatus according to claim 1, wherein the resource assignment information is indicated by downlink control information (DCI).

Claim 8 A communication method, comprising:

receiving resource assignment information indicating a set of interlace indices of a plurality of sets of interlace indices including index sets {#i} and {#i, #j} where i and j are integers larger than or equal to 0; and

transmitting an uplink signal on first resource blocks (RBs) within a band,

wherein, a number of the first RBs is the largest integer which is based on one or more specific prime numbers that are two, three and five and which is not greater than a number of second RBs, wherein the number of second RBs is not based on the one or more specific prime numbers and is indicated by the set of interlace indices.

Claim 9 The communication method according to claim 8, wherein the first RBs are the lowest RBs among the second RBs indicated by the set of interlace indices.

Claim 10 The communication method according to claim 8, wherein each of the interlace indices indicates a plurality of RBs arrayed at an equal spacing in a frequency domain.

Claim 11 The communication method according to claim 8, wherein the resource assignment information indicates the set of interlace indices, which includes two {#i, #j} or more interlace indices.

Claim 12 The communication method according to claim 8, wherein a size of the uplink signal is determined based on the first RBs.

Claim 13 The communication method according to claim 8, wherein each of the interlace indices indicates a different number of RBs.

Claim 14 The communication method according to claim 8, wherein the resource assignment information is indicated by downlink control information (DCI).