

TRANSMISSION APPARATUS, TRANSMISSION METHOD, RECEPTION
APPARATUS, AND RECEPTION METHOD

ABSTRACT

A disclosed transmission apparatus includes a multiplexing
portion that multiplexes a common pilot channel, a shared
5 control channel, and a shared data channel; a symbol
generation portion that performs an inverse Fourier
transformation on the multiplexed signal so as to generate
a symbol; and a transmission portion that transmits the
generated symbol. The multiplexing portion multiplexes the
10 shared control channel including control information
necessary for demodulation of the shared data channel
including a payload and the common pilot channel to be used
by plural users in a frequency direction, and the shared data
channel in a time direction with respect to the common pilot
15 channel and the shared control channel. Even when the number
of symbols composing a transmission time interval (TTI) is
reduced, transmission efficiency of channels excluding the
common pilot channel can be maintained by reducing insertion
intervals of the common pilot channel accordingly.

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FIG. 2