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(54) **TRANSMISSION METHOD, TRANSMISSION APPARATUS, AND RECEPTION APPARATUS**

(75) Inventors: **Yutaka Murakami**, Kanagawa (JP);
Masayuki Orihashi, Chiba (JP);
Akihiko Matsuoka, Kanagawa (JP)

(73) Assignee: **Panasonic Corporation**, Kadoma-shi (JP)

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See application file for complete search history.

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Primary Examiner—David C Payne

Assistant Examiner—Rahel Guarino

(74) *Attorney, Agent, or Firm*—Christensen O'Connor Johnson Kindness PLLC

(57) **ABSTRACT**

A transmission method for transmitting modulation signals of a plurality of channels to the same frequency band from a plurality of antennas. At the time when a symbol used for demodulation is inserted in a channel, in another channel symbol, the same phase and quadrature signals in the in-phase-quadrature plane are made to be zero signals. Thus, a plurality of modulation signals are multiplexed and transmitted and the transmitted multiplexed modulation signals are demultiplexed and demodulated at a reception apparatus, thereby improving the data transmission rate.

10 Claims, 87 Drawing Sheets

