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(54) **RADIO COMMUNICATION SYSTEM, CONTROL METHOD AND CONTROL DEVICE FOR RADIO COMMUNICATION SYSTEM, AND RADIO COMMUNICATION SYSTEM CONTROL PROGRAM**

(71) Applicant: **Nippon Telegraph and Telephone Corporation**, Tokyo (JP)

(72) Inventors: **Daisuke MURAYAMA**, Musashino-shi, Tokyo (JP); **Kenichi Kawamura**, Musashino-shi, Tokyo (JP)

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(57) **ABSTRACT**

A specific signal in a radio communication system includes at least one of a synchronization signal and a reference signal. A first radio communication system performing radio communication in a first cell generates the specific signal based on a first seed and uses a first resource mapping pattern as a resource mapping pattern of the specific signal. A second radio communication system performing radio communication in a second cell that is adjacent to the first cell generates the specific signal based on a second seed and uses a second resource mapping pattern as a resource mapping pattern of the specific signal. When the first resource mapping pattern is identical to the second resource mapping pattern, the first seed and the second seed are set to be different from each other through sequence seed control.