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ABSTRACT

WIRELESS COMMUNICATION SYSTEM FOR MULTI-HOP
CONNECTION, SOURCE STATION, RADIO STATION AND PILOT
5 SIGNAL USED THEREIN

A destination station 3 in a wireless communication system for a multi-hop connection selects a transmission path having a minimum total of required transmission power values of respective stations on the
5 transmission path among candidates of the transmission path from a source station 1 to the destination station 3 and transmits a pilot signal to the source station 1 and a relay station 2, the pilot signal including identification information about the respective stations on the selected transmission path and required transmission power values thereof. Thus, the source station 1
10 and the relay station 2, which have received this pilot signal, can determine the transmission path having the minimum total of the required transmission power values by use of the identification information included in the received pilot signal.

(Figure 2)