

MULTI-CARRIER TRANSMISSION SYSTEM AND METHOD THEREOF**ABSTRACT**

A multi-carrier transmission system and a method therefor employing a bit distribution technique (A5). The system regards a plurality of SNR values evaluated at different times as on SNR value evaluated simultaneously at different frequencies. The system realises a given transmission speed depending upon a plurality of SNR values evaluated at different times and thus maximizes performance margin. The multi-carrier transmission system has signal to noise ratio evaluating means (2) for obtaining plural sets of signal to noise ratios by evaluating the signal to noise ratio of each of the multi-carriers at different times. The system also has bit distribution means (6,10) for performing bit distribution of each carrier depending upon one set of signal to noise ratios by taking a plurality of sets of signal to noise ratios as one set of signal to noise ratios evaluated simultaneously at different frequencies.

Fig.1



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