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demodulating (n×m)-bit signal based on a signal with said delay distortion removed and detected timing location of n signals; and  
 coupling said extracted k-bit information with said demodulated (n×m)-bit signal for generating (k+n×m)-bit serial signal per symbol.

5. The code division multiplexing communication method of claim 4, wherein said spread code is a Barker code.

6. The code division multiplexing communication method of claim 4, wherein

10 said step for equalizing a signal based on said correlation result further comprises steps of:  
 obtaining a multipath distortion from a signal based on said correlation result and obtaining a tap coefficient for said equalization of said multipath distortion when receiving a training signal; and  
 equalizing a signal based on a correlation result with said obtained tap coefficient and removing a delay distortion from a signal based on said correlation result when receiving a data signal.

20 7. A code division multiplexing communication system having a transmitter and a receiver using spectrum spread for transmitting a digital signal between said transmitter and said receiver wherein

25 said transmitter comprises:  
 a signal distributor dividing (k+n×m)-bit serial input signal per symbol timing to n pieces of m bit parallel signals, wherein each k,m is at least 1, and n is a least 2, and outputting j variations of m bit data signals each at a differently-shifted timing from said parallel signals and j selection signals for selecting said m bit data signals, wherein j is an integer also  $jC_n \geq 2^k$ ;  
 a code generator generating j spread codes each at a differently shifted timing;  
 j units of spread devices spectrum spreading said data signals based on said spread codes;  
 a selector selecting and synthesizing n signals among output signals of said spread means based on said selection signals;  
 a modulator modulating an output signal of said selection means; and  
 a transmitter analog operation unit converting a frequency of an output signal of said modulation means

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into a radio frequency and transmitting a signal at a changed frequency to said receiver; and  
 said receiver comprises:  
 a receiver analog operation unit converting a signal transmitted from said transmitter into a base band signal;  
 a correlator taking a correlation between an output signal of said analog operation means and a spread code and outputting a correlation result signal;  
 an equalizer removing a delay distortion generated on a transmission path from said correlation result signal;  
 a signal location detector detecting timing locations of n signals at the highest level with 1 symbol block and extracting k-bit information from said timing location;  
 n units of demodulators demodulating (n×m)-bit signal based on an output signal of said equalizer and signal location information in said signal location detector; and  
 a coupler coupling output signals of said n units of demodulation means and an output signal of said signal location detector and outputting (k+n×m)-bit serial signal per symbol.

8. The code division multiplexing communication system of claim 7, wherein

30 said spread devices comprise devices spectrum spreading a data signal based on a Barker code; and  
 said correlator comprises a device taking a correlation between an output signal of said transmitter analog operator and a Barker code and outputting a signal based on a correlation result.

9. The code division multiplexing communication system of claim 7, wherein

35 said equalizer comprises an equalizing operator removing delay distortion from an output signal of said correlator and a tap coefficient operator obtaining a multipath distortion based on an output signal of said correlator and outputting said multipath distortion as a tap coefficient of said equalizer.

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