[CLAIMS]

[Claim 1]

A communicating apparatus comprising:

a transmitting and receiving part that executes transmission and reception of signals with at least one or more other communicating apparatuses; and

an error avoiding part that, in a state where a communication system configured such that the communication system executes communication through a bus already operates, executes a process of avoiding occurrence of any error occurring when a communicating apparatus is additionally connected to the communication system.

[Claim 2]

The communicating apparatus according to claim 1, wherein

the communicating apparatus includes a second communicating apparatus that executes communication in accordance with control by a first communicating apparatus that has initiative of the communication through the bus and that is additionally connected to the communication system,

the transmitting and receiving part executes transmission and reception of signals with the other communicating apparatuses through a data signal line and

a clock signal line that constitute the bus, and

the error avoiding part causes the transmitting and receiving part to transmit a signal requesting additional connection to the communication system when the error avoiding part detects that a state where potentials of the data signal line and the clock signal line are each at an H-level continues for a time period longer than a predetermined time period, using a fact that the error avoiding part detects that the potentials of the data signal line and the clock signal line are each at an H-level, as a condition for starting counting.

[Claim 3]

The communicating apparatus according to claim 1, wherein

the communicating apparatus includes a first communicating apparatus that has initiative of communication through the bus, and

in a case where the second communicating apparatus is likely to be additionally connected to the communication system, the error avoiding part restricts a lower limit of a communication speed employed when communication is executed with a low-speed communicating apparatus that is a communicating apparatus executing communication at a speed lower than a communication speed employed in the communication of the second communicating

apparatus.

[Claim 4]

The communicating apparatus according to claim 3, wherein

the first communicating apparatus has information set in advance therein that indicates whether or not the second communicating apparatus is likely to be additionally connected to the communication system.

[Claim 5]

The communicating apparatus according to claim 1, wherein

the communicating apparatus is a first communicating apparatus that has initiative of communication through the bus, and

the error avoiding part causes the transmitting and receiving part to regularly transmit an optional polling signal that includes an end signal declaring an end of the communication using the bus.

[Claim 6]

The communicating apparatus according to claim 1, wherein

the communicating apparatus includes a first communicating apparatus that has initiative of communication through the bus,

the transmitting and receiving part executes

transmission and reception of signals with the other communicating apparatuses through a data signal line and a clock signal line that constitute the bus, and

the error avoiding part

in a case where a second communicating apparatus to be additionally connected to the communication system does not include a counting part that counts with the detection of the fact that potentials of the data signal line and the clock signal line are each at an H-level as a start of counting, causes the transmitting and receiving part to regularly transmit an optional polling signal including an end signal that declares an end of the communication using the bus, and

in a case where the second communicating apparatus to be additionally connected to the communication system includes the counting part that counts with the detection of the fact that the potentials of the data signal line and the clock signal line are each at the H-level as the start of the counting and a low-speed communicating apparatus includes a communicating apparatus executing communication at a speed lower than a communication speed employed in the communication of the second communicating apparatus is connected to the communication system, restricts a lower

limit of the communication speed employed when communication is executed with the low-speed communicating apparatus.

[Claim 7]

A communication method comprising the steps of:

executing transmission and reception of signals with at least one or more other communicating apparatuses; and

in a state where a communication system configured to be able to execute communication through a bus already operates, executing a process of avoiding occurrence of any error occurring when a communicating apparatus is additionally connected to the communication system.

[Claim 8]

A program causing a computer to execute a process that comprises the steps of:

executing transmission and reception of signals with at least one or more other communicating apparatuses; and

in a state where a communication system configured to be able to and execute communication through a bus already operates, executing a process of avoiding occurrence of any error occurring when a communicating apparatus is additionally connected to the communication system.

[Claim 9]

A communication system configured to be able to execute communication through the bus using a first communicating apparatus that has initiative of communication through the bus and a second communicating apparatus that executes communication in accordance with control by the first communicating apparatus, wherein

the first communicating apparatus and the second communicating apparatus each include a transmitting and receiving part that executes transmission and reception of signals with at least one or more other communicating apparatuses, and

at least one of the first communicating apparatus or the second communicating apparatus include an error avoiding part that, in a state where the first communicating apparatus is connected to at least the bus and the communication system already operates, executes a process of avoiding occurrence of any error occurring when the second communicating apparatus is additionally connected to the communication system.