



## AMENDMENTS TO THE SPECIFICATION

In the title:

Please change the title to read as follows:

HEADER REPETITION IN PACKET-BASED OFDM SYSTEMS RECEIVER METHOD AND APPARATUS FOR VARIABLE HEADER REPETITION IN A WIRELESS OFDM NETWORK WITH DIFFERENT CHANNEL BANDWIDTHS

Please amend the first paragraph of the application beneath the heading “RELATED APPLICATION DATA”:

**[0001]** This application is a continuation of U.S. Patent Application No. 16/125,206, filed September 7, 2018, now U.S. Patent No. 10,291,449, which is a continuation of U.S. Patent Application No. 15/958,519, filed April 20, 2018, now U.S. Patent No. 10,079,707, which is a continuation of U.S. Patent Application No. 15/476,284, filed March 31, 2017, now U.S. Patent No. 9,973,361, which is a continuation of U.S. Patent Application No. 15/350,418, filed November 14, 2016, now U.S. Patent No. 9,614,566, which is a continuation of U.S. Patent No. 13/376,856, filed February 8, 2012, now U.S. Patent No. 9,584,262, which is a national stage application under 35 U.S.C. 371 of PCT Application No. PCT/US2010/046088, having an international filing date of August 20, 2010, which designated the United States, which PCT application claims the benefit of and priority under 35 U.S.C. §119(e) to U.S. Patent Application No. 61/235,909, filed August 21, 2009, entitled “Header Repetition Scheme in Packet-Based OFDM Systems,” each of which are incorporated herein by reference in their entirety.

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1-59. (Cancelled)

60. (New) A wireless OFDM (Orthogonal Frequency Division Multiplexing) transceiver comprising:

a wireless OFDM communications receiver operable to receive, over a wireless communication channel, a first packet type in a first channel bandwidth, the first packet type comprising a first header field, wherein the first header field comprises two parts, a first part comprising a first set of header bits of the first header field and a second part comprising a second set of header bits of the first header field, wherein the first set of header bits of the first header field is different than the second set of header bits of the first header field; and

a demodulator operable to demodulate a first OFDM symbol followed by a second OFDM symbol, wherein the first OFDM symbol is used to receive the first part of the first header field and the second OFDM symbol is used to receive the second part of the first header field;

the wireless OFDM communications receiver further operable to receive, over the wireless communications channel, a second packet type in a second channel bandwidth, the second packet type comprising a second header field, wherein the second header field comprises four parts, a first part comprising a first set of header bits of the second header field, a second part comprising a second set of header bits of the second header field, a third part comprising a third set of header bits of the second header field and a fourth part comprising a fourth set of header bits of the second header field,

wherein the first set of header bits of the second header field is the same as the second set of header bits of the second header field, wherein the third set of header bits of the second header field is the same as the fourth set of header bits of the second header field,

the demodulator further operable to demodulate a first OFDM symbol followed by a second OFDM symbol followed by a third OFDM symbol followed by a fourth OFDM symbol,

wherein the first OFDM symbol is used to receive the first part of the second header field, the second OFDM symbol is used to receive the second part of the second header field, the third OFDM symbol is used to receive the third part of the second header field, the fourth OFDM symbol is used to receive the fourth part of the second header field,

wherein the second set of header bits of the second header field received using the second OFDM symbol are received in a different order than the first set of header bits of the second header field received using the first OFDM symbol,

wherein the fourth set of header bits of the second header field received using the fourth OFDM symbol are received in a different order than the third set of header bits of the second header field received using the third OFDM symbol, and

and wherein the first channel bandwidth is at least two times wider than the second channel bandwidth.

61. (New) The wireless transceiver of claim 60, wherein the reception of the same header bits in the second OFDM symbol provides diversity to increase a likelihood of correctly receiving header information of the second packet type.

62. (New) The wireless transceiver of claim 60, wherein the reception of the same header bits in the fourth OFDM symbol provides diversity to increase a likelihood of correctly receiving header information of the second packet type.

63. (New) The wireless transceiver of claim 60, wherein the wireless transceiver supports SmartGrid applications.

64. (New) The wireless transceiver of claim 60, wherein the wireless transceiver supports one or more wireless standards.

65. (New) The wireless transceiver of claim 60, wherein a MAP (Media Access Plan) frame indicates whether two or four OFDM symbols are used to receive header bits.

66. (New) The wireless transceiver of claim 60, wherein the first header field indicates that the type of packet.

67. (New) The wireless transceiver of claim 60, wherein the second header field indicates that the type of packet.

68. (New) A method of operating a wireless OFDM (Orthogonal Frequency Division Multiplexing) transceiver comprising:

receiving, by a wireless OFDM communications receiver over a wireless communication channel, a first packet type in a first channel bandwidth, the first packet type comprising a first header field, wherein the first header field comprises two parts, a first part comprising a first set of header bits of the first header field and a second part comprising a second set of header bits of the first header field, wherein the first set of header bits of the first header field is different than the second set of header bits of the first header field;

demodulating, by a demodulator, a first OFDM symbol followed by a second OFDM symbol, wherein the first OFDM symbol is used to receive the first part of the first header field and the second OFDM symbol is used to receive the second part of the first header field;

receiving, by the wireless OFDM communications receiver over the wireless communication channel, a second packet type in a second channel bandwidth, the second packet type comprising a second header field, wherein the second header field comprises four parts, a first part comprising a first set of header bits of the second header field, a second part comprising a second set of header bits of the second header field, a third part comprising a third set of header bits of the second header field and a fourth part comprising a fourth set of header bits of the second header field,

wherein the first set of header bits of the second header field is the same as the second set of header bits of the second header field, wherein the third set of header bits of the second header field is the same as the fourth set of header bits of the second header field;

and demodulating, by the demodulator, a first OFDM symbol followed by a second OFDM symbol followed by a third OFDM symbol followed by a fourth OFDM symbol, wherein the first OFDM symbol is used to receive the first part of the second header field, the second OFDM symbol is used to receive the second part of the second header field, the third OFDM

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