

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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Apple, Inc.  
Petitioner

v.

ERICSSON INC. ET AL.  
("Ericsson"),  
Patent Owner

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Case XXXXXX  
Patent No. 9,300,432

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**DECLARATION OF DR. R. MICHAEL BUEHRER**

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	[1pre] A method, in a user equipment, of enabling link quality estimation of a radio channel used for transmitting signals from a sending node to the user equipment, the method comprising: .....	42
	[1a] receiving, from the sending node and by dedicated higher layer signaling, a user equipment specific measurement adjusting parameter for adjusting signal power measurements;.....	45
	[1b] measuring properties based on reference symbols of the radio channel transmitted by the sending node; .....	47
	[1c] adjusting the measured properties of the radio channel based on the received measurement adjusting parameter; and .....	49
	[1d] sending, to the sending node, a channel state information report based on the adjusted measured properties. ....	50
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	[5a] The method of claim 1, further comprising: receiving payload data and reference symbols from the sending node; and .....	54
	[5b] configuring the channel state information report based on signal measurements on the reference symbols;.....	56
	[5c] wherein the measurement adjusting parameter compensates for a difference in received power of measured signals and data signals. ....	57
F.	Claim 6 .....	59
	[6pre] A user equipment, comprising: .....	59
	[6a] a signal receiving circuit adapted to receive, from a sending node and by dedicated higher layer signaling, a	

	user equipment specific measurement adjusting parameter for adjusting signal power measurements; .....	60
	[6b] a signal measuring circuit configured to measure properties based on reference symbols of the radio channel transmitted by the sending node; .....	61
	[6c] a quality estimating circuit configured to adjust the measured properties of the radio channel based on the received measurement adjusting parameter; and .....	62
	[6d] a reporting circuit configured to send, to the sending node, a channel state information report based on the adjusted measured properties. ....	63
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	[10b] wherein the signal receiving circuit is configured to configure the channel state information report based on signal measurements on the reference symbols;.....	66
	[10c] wherein the measurement adjusting parameter compensates for a difference in received power of measured signals and data signals. ....	66
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	[11pre] A method, in a sending node, for enabling link quality estimation of a radio channel used for transmitting signals from the sending node to a user equipment, the method comprising: .....	67
	[11a] sending, by dedicated higher layer signaling, a user equipment specific measurement adjusting parameter to the user equipment for adjusting signal power measurements; and.....	68
	[11b] receiving a channel state information report from the user equipment, the channel state information report including	

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	[14b] wherein the measurement adjusting parameter compensates for a difference in received power of measured signals and data signals. ....	70
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	[15pre] A sending node for enabling link quality estimation of a radio channel used for transmitting signals from the sending node to a user equipment, comprising:.....	71
	[15a] a sending circuit configured to send, by dedicated higher layer signaling, a user equipment specific measurement adjusting parameter to the user equipment for adjusting signal power measurements; and .....	72
	[15b] a report receiver configured to receive a channel state information report from the user equipment, the channel state information report including measured properties defined by reference symbols of the radio channel transmitted by the sending node adjusted in accordance with the sent measurement adjusting parameter. ....	73
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	[18a] The sending node of claim 15: wherein the sending circuit is configured to send payload data and reference symbols to the user equipment, which configures the channel state	

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