

## ANNEX A TO STATEMENT OF GROUNDS

### **737 Patent – Red-line version of conditional amendments**

1. A method comprising the following steps performed by a mobile terminal:  
receiving a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme, MCS, Index, information on resource blocks used for the transmission from the mobile terminal to the base station, and a channel quality information trigger for triggering a transmission of an aperiodic channel quality information report to the base station,  
characterized in that the method further comprises:  
determining whether the channel quality information trigger is set and whether the control channel signal indicates a predetermined value of the MCS Index and indicates a number of resource blocks that is smaller than or equal to a predetermined resource block number, and  
transmitting the aperiodic channel quality information report to the base station without multiplexing the aperiodic channel quality information report with Uplink Shared Channel data, in case the determining step yields a positive result.

~~2. The method according to claim 1,~~

~~wherein the MCS Index has a value between 0 and 31 inclusive, wherein an MCS Index value between 0 and 28 inclusive indicates MCS information for an uplink transmission using a redundancy version parameter with value 0, an MCS Index value of 29 indicates a redundancy version parameter with value 1 for an uplink retransmission, an MCS Index value of 30 indicates a redundancy version parameter with value 2 for an uplink retransmission, and an MCS Index value of 31 indicates a redundancy version parameter with value 3 for an uplink retransmission,~~

~~wherein the predetermined MCS Index has the value 29.~~

~~2. The method according to claim 1, wherein the method further comprises:~~

~~transmitting Uplink Shared Channel data multiplexed with an aperiodic channel quality information report to the base station, using the redundancy version parameter with value 1, when a control signal is received from the base station in which the channel quality information trigger is set, and which indicates the predetermined value of the MCS Index and indicates a number of resource blocks used for the transmission from the mobile terminal to the base station that is larger than the predetermined resource block number; and~~

~~transmitting Uplink Shared Channel data which is not multiplexed with an aperiodic channel quality information report to the base station, using the redundancy version parameter with value 1, when a control signal is received from the base station in which the channel quality information trigger is not set, and which indicates the predetermined value of the MCS Index and indicates a number of resource blocks used for the transmission from the mobile terminal to the base station, irrespective of whether the indicated number of resource blocks is larger than the predetermined resource block number, or is smaller than or equal to the predetermined resource block number.~~

3. The method according to claim 1 or 2, wherein the mobile terminal is configured to feed back the channel quality information report on the Physical Uplink Shared Channel, PUSCH, based on one of a plurality of reporting modes.

4. The method according to one of claims 1 to 3, wherein a Physical Uplink Shared Channel is used to transmit the channel quality information report.

5. The method according to one of claims 1 to 4, wherein the control channel quality information trigger is a Channel Quality Indicator request bit.

~~6. The method according to one of claims 1 to 5, wherein the predetermined MCS Index indicates a redundancy version parameter with value 1~~

76. The method according to one of claims 1 to 5~~claim 6~~, wherein the redundancy version parameter with value 1 is a redundancy version infrequently used for data retransmission.

87. The method according to one of claims 1 to 76, wherein the channel quality information is at least one of a channel quality indicator, a precoding matrix indicator, or a rank indicator.

98. A mobile terminal comprising:

a receiver adapted to receive a control channel signal from a base station, wherein the control channel signal comprises a Modulation and Coding Scheme, MCS, Index, information on resource blocks used for the transmission from the mobile terminal to the base station, and a channel quality information trigger for triggering a transmission of an aperiodic channel quality information report to the base station,

characterized in that the terminal further comprises

a processor adapted to determine whether the channel quality information trigger is set and whether the control channel signal indicates a predetermined value of the MCS Index and indicates a number of resource blocks that is smaller than or equal to a predetermined resource block number, and

a transmitter adapted to transmit the aperiodic channel quality information report to the base station without multiplexing the aperiodic channel quality information report with Uplink Shared Channel data, in case the determination yields a positive result.

~~10. The mobile terminal according to claim 9,~~  
wherein the MCS Index has a value between 0 and 31 inclusive, wherein an MCS Index value between 0 and 28 inclusive indicates MCS information for an uplink transmission using a redundancy version parameter with value 0, an MCS Index value of 29 indicates a redundancy version parameter with value 1 for an uplink retransmission, an MCS Index value of 30 indicates a redundancy version

parameter with value 2 for an uplink retransmission, and an MCS Index value of 31 indicates a redundancy version parameter with value 3 for an uplink retransmission,

wherein the predetermined MCS Index has the value 29.

9. The mobile terminal according to claim 8, further configured to:

transmit Uplink Shared Channel data multiplexed with an aperiodic channel quality information report to the base station, using the redundancy version parameter with value 1, when the mobile terminal receives a control signal from the base station in which the channel quality information trigger is set, and which indicates the predetermined value of the MCS Index and indicates a number of resource blocks used for the transmission from the mobile terminal to the base station that is larger than the predetermined resource block number; and

transmit Uplink Shared Channel data which is not multiplexed with an aperiodic channel quality information report to the base station, using the redundancy version parameter with value 1, when the mobile terminal receives a control signal from the base station in which the channel quality information trigger is not set, and which indicates the predetermined value of the MCS Index and indicates a number of resource blocks used for the transmission from the mobile terminal to the base station, irrespective of whether the indicated number of resource blocks is larger than the predetermined resource block number, or is smaller than or equal to the predetermined resource block number.

4410. The mobile terminal according to claim 9-8 or 409, configured to feed back the channel quality information report on the Physical Uplink Shared CHannel, PUSCH, based on one of a plurality of reporting modes.

4211. The mobile terminal according to one of claims 9-8 to 4410, wherein the transmitter is adapted to use a Physical Uplink Shared CHannel to transmit the channel quality information report.

~~13. The mobile terminal according to one of claims 9 to 12, wherein the predetermined MCS Index indicates a redundancy version parameter with value 1.~~

4412. The mobile terminal according to one of claims 9-8 to 4311, wherein the control channel quality information trigger is a Channel Quality Indicator request bit.

4513. The mobile terminal according to one of claims 9-8 to 4412, wherein the channel quality information is at least one of a channel quality indicator, a precoding matrix indicator, or a rank indicator.