

Annex 1 to the Statement of Grounds for Amendment for EP (UK) 1 685 659 B1

Conditional Amendment 1

Claim 1

A mobile station (200) for use in a communication system having a base station (100), the mobile station (200) comprising:

receiver means (220) for receiving from the base station (100) a first downlink signal on a downlink fractional dedicated channel consisting only of non-predetermined data values multiplexed between users,

measurement means (250) for measuring a parameter of the received first downlink signal;

power control means (230) for generating first power control commands in response to the measured parameter; and

transmitter means (240) for transmitting the first power control commands to the base station (100);

wherein the measurement means (250) is adapted to measure the parameter of the first downlink signal while the first downlink signal is modulated with the non-predetermined data values and is subjected to transmit power control in accordance with the first power control commands, and wherein the non-predetermined data values consist of second power control commands.

Claim 3

A mobile station as claimed in claim 1 or 2, wherein the power control means (230) is adapted to decode the non-predetermined data values of the received first downlink signal comprising second power control commands and to adjust the transmit power of the transmitter means in accordance with the decoded second power control commands.

Claim 6

A method of operating a communication system comprising a base station (100) and at least one mobile station (200), comprising at the base station (100), receiving first power control commands transmitted by the mobile station (200) and transmitting a first downlink signal modulated with non-predetermined data values and subjected to transmit power control in accordance with the first transmit power control commands, wherein the first downlink signal is transmitted on a downlink fractional dedicated channel consisting only of non-predetermined data values multiplexed between users and at the mobile station (200), receiving a first downlink signal, measuring a parameter of the first downlink signal modulated with the non-predetermined data values, generating the first power control commands in response to the measured parameter, and transmitting the first power control commands, wherein the first downlink signal is received on the downlink fractional dedicated

channel consisting only of non-predetermined data values multiplexed between users, and wherein the non-predetermined data values consist of second power control commands.

Claim 8

A method as claimed in claim 6 or 7, comprising ~~at the base station (100), arranging for the non-predetermined data values to comprise second power control commands~~ and, at the mobile station (200), decoding the second power control commands and adjusting the transmit power of the mobile station (200) in accordance with the second power control commands.

Conditional Amendment 2

Claim 1

A mobile station (200) for use in a communication system having a base station (100), the mobile station (200) comprising:

receiver means (220) for receiving from the base station (100) a first downlink signal on a downlink fractional dedicated channel consisting only of non-predetermined data values multiplexed between users,

measurement means (250) for measuring a parameter of the received first downlink signal;

power control means (230) for generating first power control commands in response to the measured parameter; and

transmitter means (240) for transmitting the first power control commands to the base station (100);

wherein the measurement means (250) is adapted to measure the parameter of the first downlink signal while the first downlink signal is modulated with the non-predetermined data values and is subjected to transmit power control in accordance with the first power control commands, and wherein the non-predetermined data values consist of second power control commands and wherein the downlink fractional dedicated channel is a fractional control channel in UMTS FDD mode having a spreading factor of 256 and comprising ten symbols per slot, such that one slot can support ten users with one symbol per TPC command.

Claim 3

A mobile station as claimed in claim 1 or 2, wherein the power control means (230) is adapted to decode the non-predetermined data values of the received first downlink signal comprising second power control commands and to adjust the transmit power of the transmitter means in accordance with the decoded second power control commands.

Claim 6

A method of operating a communication system comprising a base station (100) and at least one mobile station (200), comprising at the base station (100), receiving first power control commands transmitted by the mobile station (200) and transmitting a first downlink signal modulated with non-predetermined data values and subjected to transmit power control in accordance with the first transmit power control commands, wherein the first downlink signal is transmitted on a downlink fractional dedicated channel consisting only of non-predetermined data values multiplexed between users and at the mobile station (200), receiving a first downlink signal, measuring a parameter of the first downlink signal modulated with the non-predetermined data values, generating the first power control commands in response to the measured parameter, and transmitting the first power control commands, wherein the first downlink signal is received on the downlink fractional dedicated channel consisting only of non-predetermined data values multiplexed between users, and wherein the non-predetermined data values consist of second power

control commands, and wherein the downlink fractional dedicated channel is a fractional control channel in UMTS FDD mode having a spreading factor of 256 and comprising ten symbols per slot, such that one slot can support ten users with one symbol per TPC command.

Claim 8

A method as claimed in claim 6 or 7, comprising ~~at the base station (100), arranging for the non-predetermined data values to comprise second power control commands and, at the mobile station (200), decoding the second power control commands and adjusting the transmit power of the mobile station (200) in accordance with the second power control commands.~~