

Title (en)

INITIAL UPLINK AND DOWNLINK POWER LEVEL ASSIGNMENT IN A RADIO TELECOMMUNICATIONS NETWORK

Title (de)

ZUWEISUNG DES ANFANGSLEISTUNGSPEGELS FÜR DIE ABWÄRTS- UND AUFWÄRTSRICHTUNG IN EINEM FUNKTELEKOMMUNIKATIONSNETZWERK

Title (fr)

ATTRIBUTION DE NIVEAUX DE PUISSANCE INITIAUX DANS LE SENS MONTANT ET DESCENDANT, DANS UN RESEAU DE RADIOTELECOMMUNICATION

Publication

EP 1205037 A1 20020515 (EN)

Application

EP 00948455 A 20000707

Priority

- SE 0001460 W 20000707
- US 35985999 A 19990726

Abstract (en)

[origin: WO0108322A1] A method of assigning initial uplink and downlink power levels for a transaction of a data package between a mobile station (12) and a base station (11) in a radio telecommunications network. A historical database (13) of signal strength measurements, interference measurements, and uplink and downlink power level settings in the network is maintained. To set downlink power, an uplink signal strength (16) of an initial access signal (15) sent from the mobile station to the base station is measured at the base station. The measured uplink signal strength (16) is sent to the historical database where it is correlated with an associated downlink power level setting. The correlated downlink power level setting (17) is sent to the base station where it is utilized as the initial downlink power level setting for a first transmission (19) from the base station to the mobile station. To set uplink power, the signal strength (42) of an initial packet channel request (41) on the control channel is sent to the historical database along with an interference measurement (43) on the packet data channel. An associated mobile station uplink power level setting (44) is retrieved from the database and sent to the mobile station where it is utilized for the first data transmission (46). A closed loop power control method may be utilized to adjust either the uplink or the downlink power level to an optimum level.

IPC 1-7

H04B 7/005; **H04Q 7/20**

IPC 8 full level

H04B 7/005 (2006.01)

CPC (source: EP)

H04W 52/226 (2013.01); **H04W 52/228** (2013.01); **H04W 52/50** (2013.01); **H04W 52/08** (2013.01); **H04W 52/20** (2013.01); **H04W 52/24** (2013.01); **H04W 52/286** (2013.01); **H04W 52/34** (2013.01); **H04W 52/40** (2013.01)

Citation (search report)

See references of WO 0108322A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0108322 A1 20010201; AU 6193600 A 20010213; CN 1375137 A 20021016; EP 1205037 A1 20020515

DOCDB simple family (application)

SE 0001460 W 20000707; AU 6193600 A 20000707; CN 00813126 A 20000707; EP 00948455 A 20000707