

Title (en)
METHOD FOR CONTROLLING THE TRANSMISSION POWER

Title (de)
VERFAHREN ZUR STEUERUNG DER SENDELEISTUNG

Title (fr)
PROCÉDÉ DE COMMANDE DE LA PUISSANCE D'ÉMISSION

Publication
EP 3332586 A1 20180613 (DE)

Application
EP 16751541 A 20160803

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• EP 2016068563 W 20160803

Abstract (en)
[origin: WO2017025413A1] The invention relates to a method for determining the power control parameters in order to control the power, in particular the energy per symbol, with which signals are transmitted from transmitters of a group of multiple transmitters to a receiver assigned to said group in packets according to a multiplex specification in a communication system. Each transmitter of a group determines the transmitter transmission power randomly such that the signal-to-noise ratio of the receiver lies between a minimum and a maximum value. The minimum and maximum signal-to-noise ratio values that determine to which group a transmitter belongs are defined in a first table, and the probability value used for the transmitter is defined in a second table in order to determine the transmission power of the transmitter such that the transmitter signal-to-noise ratio lies within the total range of permissible signal-to-noise ratios or within the signal-to-noise ratio that is permissible for the group to which the transmitter belongs. New values for the first and second tables are defined such that the maximum load in packets per seconds which can be accepted by the communication channel while maintaining a desired threshold packet error rate is maximized and/or the distance from the histogram of received signal-to-noise ratios in dB to a uniform histogram of signal-to-noise ratios in dB is minimized.

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