

Title (en)

METHOD FOR BLIND MODULATION DETECTION

Title (de)

VERFAHREN ZUR BLINDEN MODULATIONSERKENNUNG

Title (fr)

PROCEDE DE DETECTION AVEUGLE DE MODULATION

Publication

**EP 1243112 A1 20020925 (EN)**

Application

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Abstract (en)

[origin: WO0152493A1] A burst of data modulated according to one modulation scheme is transmitted from the transmitter as a radio signal. Each burst contains a predefined training sequence, which may differ from burst to burst, but is known by the receiver. The receiver back-rotates the portion of the received signal corresponding to the training sequence by all available modulation schemes. Using mathematical modeling, the magnitude of the errors calculated according to each modulation scheme are compared and the modulation scheme selected is the scheme which yields the smallest error. The data in the burst may then be demodulated and processed according to the selected modulated scheme. This method has particular applicability to a GSM system in which both GMSK and EDGE modulation schemes are used but is also applicable to modulation schemes generally where the signals are modulated by a rotation.

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