Title (en)

WIRELESS COMMUNICATION UNIT AND METHOD FOR RECEIVING A WIRELESS SIGNAL

Title (de)

DRAHTLOSE KOMMUNIKATIONSEINHEIT UND VERFAHREN ZUM EMPFANGEN EINES DRAHTLOSEN SIGNALS

Title (fr)

UNITÉ DE COMMUNICATION SANS FIL ET TECHNIQUE DE RÉCEPTION D'UN SIGNAL SANS FIL

Publication

EP 1985026 A4 20121219 (EN)

Application

EP 07763525 A 20070202

Priority

- US 2007061501 W 20070202
- GB 0602195 A 20060203

Abstract (en)

[origin: GB2434948A] A wireless communication receiver comprises a SNR measurement logic (112) for measuring a SNR value of the received signal and signal processing logic (108) arranged to process the received wireless signal (Fig. 1, not shown). The signal processing logic (108) comprises demodulator logic (255) operably coupled to log likelihood ratio (LLR) logic (262) and decoding logic (265). A scaling factor (Q), dependent upon the measured signal-to-noise ratio, is applied to the vector of LLR values provided by de-mapping unit (260). The values are then saturated by converting any values outside the range [-A...+A] to one of -A or +A. The values are then quantized prior to input to a FEC decoder. Scaling factors corresponding to SNR values may be stored in a memory element. Applications include dual-mode TETRA-1 and TETRA-2 receivers.

IPC 8 full level

H04B 1/69 (2011.01)

CPC (source: EP GB)

H03M 13/45 (2013.01 - GB); **H03M 13/47** (2013.01 - EP); **H03M 13/612** (2013.01 - EP); **H03M 13/6577** (2013.01 - EP); **H03M 13/6591** (2013.01 - EP); **H04L 1/0045** (2013.01 - EP); **H04L 25/067** (2013.01 - EP); H04L 1/004 (2013.01 - GB); H04Q 7/28 (2013.09 - GB)

Citation (search report)

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- [X] US 2005025076 A1 20050203 - CHAUDHURI ARUNAVA [US], et al
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Designated contracting state (EPC)

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GB 0602195 D0 20060315; **GB 2434948 A 20070808**; **GB 2434948 B 20080409**; EP 1985026 A2 20081029; EP 1985026 A4 20121219; WO 2007092744 A2 20070816; WO 2007092744 A3 20080619; WO 2007092744 B1 20080821

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