

Title (en)

SPECTRALLY EFFICIENT METHOD FOR COMMUNICATING AN INFORMATION SIGNAL

Publication

**EP 0377687 A4 19910911 (EN)**

Application

**EP 89904890 A 19890403**

Priority

- US 18768588 A 19880429
- US 18776688 A 19880429

Abstract (en)

[origin: WO8910661A1] According to the invention, an information signal is sampled, quantized and processed digitally through an information encoder (100). Digitally processed samples (1104, 1106) produced by the encoder (100) are modulated onto a communication channel to create channel symbols having a magnitude of modulation proportional to a characteristic of a respective digitally processed sample. Both a radio frequency (RF) transmission embodiment, and a wireline embodiment are provided. In a final aspect of the present invention, encryption (1101) is provided to ensure communication privacy.

IPC 1-7

**H04B 14/04**

IPC 8 full level

**H04L 27/00** (2006.01); **H04B 1/66** (2006.01); **H04B 14/04** (2006.01); **H04K 1/02** (2006.01); **H04L 9/10** (2006.01)

IPC 8 main group level

**H04B** (2006.01)

CPC (source: EP KR)

**H02M 3/335** (2013.01 - KR); **H04B 1/667** (2013.01 - EP); **H04B 14/04** (2013.01 - KR); **H04K 1/02** (2013.01 - EP)

Citation (search report)

- [A] IBM TECHNICAL DISCLOSURE BULLETIN, vol. 26, no. 10B, March 1984, pages 5332-5335, New York, US; D.R. IRVIN: "TDHS preprocessing compression selectively applied to sub-band speech coders"
- [A] RUNDFUNKTECHNISCHE MITTEILUNGEN, vol. 18, no. 3, 1974, pages 160-164, Norderstedt, DE; G.-G. GASSMANN: "Verbesserung der AM-Übertragungsqualität bei unveränderter Systembandbreite"
- See references of WO 8910661A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**US 8901345 W 19890403**; CN 89102988 A 19890428; EP 89904890 A 19890403; FI 896174 A 19891221; IL 8967289 A 19890320; JP 50474089 A 19890403; KR 890702478 A 19891228