

Title (en)

DEVICE, SYSTEM AND METHOD FOR SPECTRALLY SHAPING TRANSMITTED DATA SIGNALS

Title (de)

EINRICHTUNG, SYSTEM UND VERFAHREN ZUR FORMUNG DES SPEKTRUMS EINES ÜBERTRAGENEN DATENSIGNALS

Title (fr)

DISPOSITIF, SYSTEME ET PROCEDE POUR FORMER LE SPECTRE DES SIGNAUX DE DONNEES EMIS

Publication

**EP 0927481 A1 19990707 (EN)**

Application

**EP 97945245 A 19970919**

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- US 2668896 P 19960925
- US 73043496 A 19961015
- US 74784096 A 19961113

Abstract (en)

[origin: WO9813977A1] The transmitter (56) for transmitting a sequence of octets over a digital network which digital network converts the octets into a sequence of levels, the transmitter including: mapping device (74) outputting for each group of data bits an equivalence class of one or more levels; a level selector (76), for selecting the level in the equivalence class to represent the group of data bits to be transmitted; a filter device (78), which receives at its input previously selected levels and provides its output to the level selector, wherein the level selector (76) selects the level to be transmitted based on the output of the filter device (78); and an octet converter (80), which receives the selected level at its input and transmits over the digital network an octet corresponding to the selected level to produce the analog signal having the predefined spectral shape when the transmitted octets are converted to levels in the digital network.

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