

ABSTRACT

**METHOD AND APPARATUS FOR ENCODING AND DECODING A BIT SEQUENCE
FOR TRANSMISSION OVER POTS WIRING**

A method and apparatus for decoding a symbol, having a time duration indicative of a bit sequence and determined by first and second delimiters being with the detection of the first delimiter of the symbol on a carrier medium. A predetermined blanking interval is measured following detection of this first delimiter. Detection of the second delimiter on the carrier medium is prevented prior to expiration of the predetermined blanking interval. This is to prevent the detection of reflections resulting from the propagation of the first delimiter over the carrier medium, and the incorrect identification of such reflections as the second delimiter of the symbol. The valid second delimiter of the symbol is then detected on a carrier medium subsequent to expiration of the predetermined blanking interval. A symbol, indicative of the bit sequence, is identified from a group of symbols based on the time duration between the respective detections of the first and second delimiters.

Figure 7



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