

ABSTRACT**Improved continuous phase modulation method and emitter
implementing said method**

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A continuous phase modulation method comprising the following steps:

- 10 • receiving (101) a sequence of digital data symbols $a(n)$ to be emitted;
- 15 • transforming (102) the sequence of symbols $a(n)$ to be emitted into a transformed sequence of symbols $b(n)$, each symbol $b(n)$ of which is equal to the sum of a symbol $a(n)$ to be emitted and of a corrective factor equal to a transformation T_f applied to a plurality of differences $(a(n)-a(n-1))$ between two consecutive symbols to be emitted, the transformation T_f applied being a combination c of at least two differences between two consecutive symbols of the sequence to be emitted, transformed by the application of a non-linear function f ;
- 20 • filtering (103) the sequence of transformed symbols $b(n)$ with a shaping filter and modulating (104) the filtered sequence with a phase modulator,
- 25 • said transformation T_f being defined so as to minimize interference between modulated symbols filtered by a receiving filter.

Figure 1