## Claims

1. A watermark generator for providing a watermark signal as a sequence of subsequent watermark coefficients based on a stream of subsequent stream values representing discrete valued data, the watermark generator comprising:

a differential encoder configured to provide the watermark signal, wherein the differential encoder is configured to apply a phase rotation to a current stream value of the stream values representing the discrete valued data or to a current watermark symbol, the current watermark symbol corresponding to a current stream value of the stream values representing the discrete valued data, to obtain a current watermark coefficient of the watermark signal;

wherein the differential encoder is configured to derive a phase of a previous spectral coefficient of a watermarked signal which is a combination of a host signal and the watermark signal;

wherein the differential encoder is configured to provide the watermark signal such that a phase angle of the phase rotation applied to the current stream value or the current watermark symbol is dependent on the phase of the previous spectral coefficient of the watermarked signal; and

wherein the host signal is an audio signal, an image signal or a video signal, and the watermarked signal is an audio signal, an image signal or a video signal.

2. The watermark generator according to claim 1,

wherein the watermark generator comprises an information processor;

wherein the information processor is configured to provide the stream representing the discrete valued data in a time frequency domain, such that each stream value of the stream is associated to a frequency subchannel and a time slot; and

wherein the differential encoder is configured to obtain the current watermark coefficient in the time frequency domain, such that a frequency subchannel associated to the current watermark coefficient is identical to a frequency subchannel associated to the current stream value and such that a time slot associated to the current watermark coefficient is identical to a time slot associated to the current stream value.

3. The watermark generator according to claim 2,

wherein the differential encoder is configured to derive spectral coefficients of the watermarked signal in a time frequency domain, such that each spectral coefficient of the watermarked signal is associated to a frequency subchannel and a time slot, and

wherein the differential encoder is configured to determine the phase rotation, such that a time slot associated to the previous spectral coefficient of the watermarked signal, in dependence on which the phase angle of the phase rotation applied to the current stream value or the