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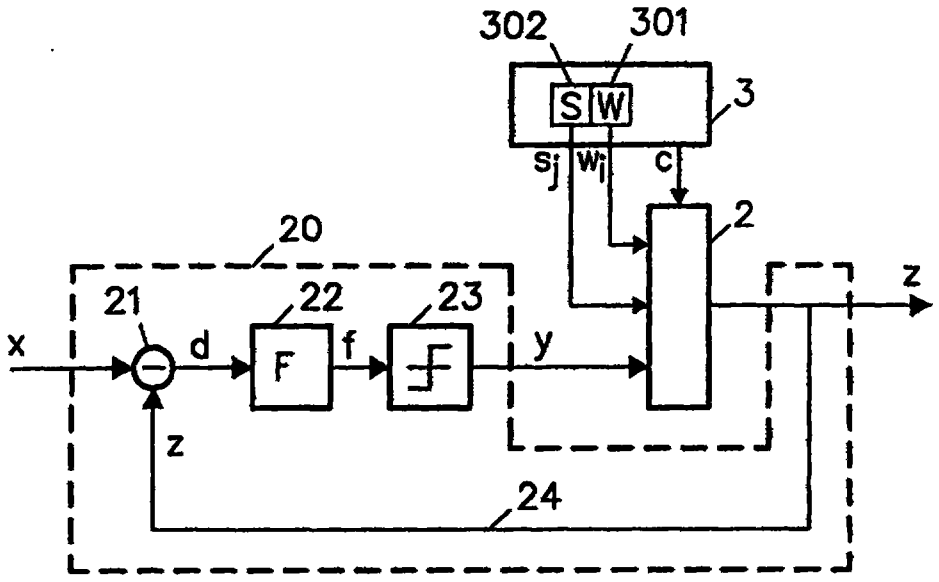
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(54) Title: EMBEDDING SUPPLEMENTAL DATA IN AN INFORMATION SIGNAL



(57) Abstract

An arrangement for embedding supplemental data (e.g. a watermark W) in an information signal (x). In an embodiment of the invention, the arrangement comprises a conventional sigma–delta modulator (20) for encoding an audio signal (x) and modifying means (2) for periodically replacing a bit of the encoded signal (y) by a bit (w_i) of the watermark. In the same manner, a sync pattern (S) is embedded in the signal. The sync bits (s_i) are embedded at a smaller distance than the watermark bits. Preferably, the sync pattern is a pattern of contiguous bits which is typically not generated by the encoder. For the sigma–delta modulator, such a pattern is a run of ones followed by a substantially equally long run of zeroes, or vice versa.