Claims

1. Method for watermarking an encrypted digital content by a content distribution network, said method comprising the steps of:

- receiving in the content distribution network, a non watermarked encrypted content and marking metadata, said encrypted content being the result of an encryption of a non watermarked clear content by a stream cipher process, said marking metadata indicating locations in the content suitable for a modification of said content;

- using a watermark formed of watermark values and corresponding to a unique identifier;

- producing a watermarked encrypted content by combining in the content distribution network, with a combination function, the values forming the watermark with the non watermarked encrypted content in locations indicated by the marking metadata;

- the unique identifier being a unique identifier of a content or being the unique identifier of a content distribution network.

2. Method for watermarking an encrypted content according to claim 1 , characterized in that the non watermarked clear content corresponding to said non watermarked encrypted content is encrypted by a process known under the name AES-CTR.

3. Method for watermarking an encrypted content according to claim 1 , characterized in that the combination between the values forming the watermark and the non watermarked encrypted content uses a logical function XOR.

4. Method for watermarking an encrypted content according to claim 1, characterized in that said marking metadata indicates locations in the non watermarked encrypted content, in which a watermark can be introduced, the locations indicated by the marking metadata being locations in which the modification of a value of the encrypted content does not produce a visible effect during the rendering of the clear corresponding content.

5. Method for watermarking an encrypted content according to claim 1, characterized in that the watermark contains error correction code.

6. Method for watermarking an encrypted content according to claim 1, characterized in that the unique identifier is redundant in the watermark.

7. Method for watermarking an encrypted content according to claim 1, characterized in that the unique identifier is a unique identifier of a user unit requesting said encrypted digital content.

8. Method for retrieving a unique identifier from a watermarked clear content, said watermarked clear content being the result of a decryption of an encrypted content watermarked according to the method of claim 1, said method for retrieving the unique identifier comprising the steps of:

- combining the watermarked clear content with the non watermarked clear content in the locations indicated by the marking metadata, in order to obtain the watermark;

- applying an operation on the watermark to obtain the unique identifier, said operation being a reverse of the operation allowing for the watermark to be obtained from the unique identifier;

- the unique identifier being a unique identifier of a content or being the unique identifier of a content distribution network.

9. Method according to claim 8, characterized in that the combination of the watermarked clear content with the non watermarked clear content uses a logical function XOR.

10. Method according to claim 8, characterized in that, prior to performing the step of applying an operation on the watermark to obtain the unique identifier, an error correction code is performed.

11. Content distribution network adapted to:

- receive a non watermarked encrypted content and marking metadata, said non watermarked encrypted content being the result of an encryption of a non watermarked clear content by a stream cipher process, said marking metadata indicating locations in the content suitable for a modification of said content;

- use a watermark formed of watermark values and corresponding to a unique identifier;

- produce a watermarked encrypted content by combining, with a combination function, the values forming the watermark with the non watermarked encrypted content in locations indicated by the marking metadata;

- the unique identifier being a unique identifier of a content or being the unique identifier of a content distribution network.

12. Content distribution network according to claim 11, characterized in that the combination of the values forming the watermark with the encrypted content in locations indicated by the marking metadata uses a logical function XOR

13. Device for retrieving a unique identifier from a watermarked clear content, said watermarked clear content being the result of a decryption of an encrypted content watermarked according to the method of claim 1, said retrieving device being adapted to:

- receive a watermarked clear content;

- receive a corresponding non watermarked clear content;

- receive marking metadata corresponding to said watermarked clear content;

- combine the watermarked clear content with the non watermarked clear content in the locations indicated by the marking metadata, in order to obtain the watermark;

- apply an operation on the watermark to obtain the unique identifier, said operation being the reverse of the operation allowing for the watermark to be obtained from the unique identifier;

- the unique identifier being a unique identifier of a content or being the unique identifier of a content distribution network.