

Title (en)  
METHODS OF DIGITAL STEGANOGRAPHY FOR MULTIMEDIA DATA

Title (de)  
VERFAHREN VON DIGITALER STEGANOGRAPHIE FÜR MULTIMEDIADATEN

Title (fr)  
PROCEDES DE STEGANOGRAPHIE NUMERIQUE DESTINES A DES DONNEES MULTIMEDIA

Publication  
**EP 1125189 A4 20011128 (EN)**

Application  
**EP 99952884 A 19991026**

Priority  
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Abstract (en)  
[origin: WO0025203A1] A lossless steganographic encoding method for secure transmission or storage of multimedia data. Primary data, such as text, image, video, audio or other digital data, is utilised in a steganographic process to encode secondary data, such as text, image, video, audio or other digital data. The primary data includes a plurality of first data elements and the secondary data includes a plurality of second data elements. For each second data element an operation is performed with a first data element so as to generate a key element as a result of the operation. The key elements may then be securely transmitted and/or stored. In preferred embodiments of the method, the primary data may be rearranged according to a predefined or random manner, or it may be resized so as to match the size of the secondary data. A complementary decoding method is disclosed, and a method of generating a pseudo-random number sequence, which may be used in the steganographic and decoding methods, is also disclosed.

IPC 1-7  
**G06F 7/58**; **H04L 9/20**

IPC 8 full level  
**G06T 1/00** (2006.01); **G06F 7/58** (2006.01); **G09C 1/00** (2006.01); **G09C 5/00** (2006.01); **H04L 9/22** (2006.01); **H04N 1/387** (2006.01); **H04N 7/26** (2006.01)

CPC (source: EP)  
**G06F 7/582** (2013.01); **H04L 9/0662** (2013.01); **H04L 2209/20** (2013.01); **H04L 2209/608** (2013.01)

Citation (search report)  
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• [X] EP 0035048 A1 19810909 - IBM [US]  
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• See references of WO 0025203A1

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**SG 9900105 W 19991026**; AU 6494399 A 19991026; EP 99952884 A 19991026; JP 2000578722 A 19991026