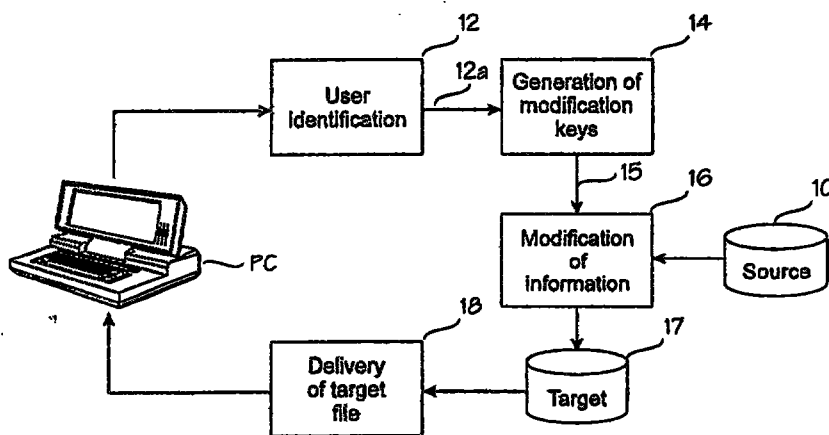




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(21) International Application Number: PCT/FI97/00587 (22) International Filing Date: 29 September 1997 (29.09.97) (30) Priority Data: 963925 30 September 1996 (30.09.96) FI (71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). (72) Inventor; and (75) Inventor/Applicant (for US only): HIPPELÄINEN, Lassi [FI/FI]; Kajaanuksenkatu 7 A 11, FIN-00250 Helsinki (FI). (74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> <i>In English translation (filed in Finnish).</i>	

(54) Title: MARKING OF ELECTRONIC DOCUMENTS IN ORDER TO EXPOSE UNAUTHORIZED PUBLICATION



(57) Abstract

A method of marking information to be produced in order to expose unauthorized copying. In the method, a user identifier (12a) is defined, a source file (10) containing a substantial part of the information produced is created, and a different target file (17) is created for each user on the basis of the source file (10) and the user identifier (12a). In the invention, several predefined modification rules (10b1-10b3, 31, 32) are stored in a file (10, 10b, 16) in order to modify the information contained in the source file (10). Using a digital processor, a sequence of modification keys (15a, 15b,...) is generated on the basis of the user identifier, the locations of the source file (10) to be modified are defined, and modifications are made in these locations, determining the nature and/or position of the modifications on the basis of the predefined modification rules (10b1-10b3, 31, 32) and modification keys (15a, 15b,...). From the content of the target file delivered to the user, it is possible to conclude a user-specific identifier and thereby the person responsible for the unauthorized copy.