PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04L 9/00 — A1

(11) International Publication Number: WO 99/16205

(43) International Publication Date: 1 April 1999 (01.04.99)

(21) International Application Number: PCT/US98/19618

(22) International Filing Date: 21 September 1998 (21.09.98)

(30) Priority Data:
08/935,955 23 September 1997 (23.09.97) US

(71) Applicant: AEGISOFT CORPORATION [US/US]; 7 Talley Court, Gaithersburg, MD 20878 (US).

(72) Inventors: JIA, Zheng; 11423 Stony Point Place, Germantown, MD 20876 (US). SHEN, Ji; 7 Talley Court, Gaithersburg, MD 20878 (US).

(74) Agents: MORRIS, Francis, E. et al.; Pennie & Edmonds LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).

(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, GM, HR, 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, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: METHOD AND SYSTEM OF DYNAMIC TRANSFORMATION OF ENCRYPTED MATERIAL

(57) Abstract

This invention relates to metered usage, and prevention of piracy, of computer software and other intellectual property existing in electronic digital format. The end result of the invention enables software-on-demand and software subscription services by employing a transformation filter (104) to perpetually regulate, meter, and charge for the usage of software products. The apparatus is implemented as a virtually integral part of the operating system that monitors and "filter" all read, write, and open/execute acccess to and from the I/O devices (106). As the protected material is being accessed, the transformation filter (104) positions itself in the path required for loading the material through the file system and application layers. The material enters the transformation filter (104) in its encrypted state and is decrypted in real-time as it goes through. The material is then handed over to the operating system components (107/108) to fulfill the user access requests.

