9801302-2

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 1/00 — A1

(11) International Publication Number: WO 97/03398

(43) International Publication Date: 30 January 1997 (30.01.97)

(21) International Application Number: PCT/NO96/00171

(22) International Filing Date: 10 July 1996 (10.07.96)

(30) Priority Data: 952795, 13 July 1995 (13.07.95), NO

(71)(72) Applicant and Inventor: SIGBJØRNSEN, Sigurd [NO/NO]; Tykkåsen 52, N-4870 Fevik (NO).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: HAGLUND, Magne, Arild [NO/NO]; Gunder Danielsens vei 53, N-4890 Grimstad (NO). OLESHCHUK, Vladimir, A. [UA/NO]; Landgraffs vei 20, N-4890 Grimstad (NO).

(74) Agent: J.K. THORSENS PATENTBUREAU A/S; P.O. Box 9276 Grønland, N-0134 Oslo (NO).

(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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).

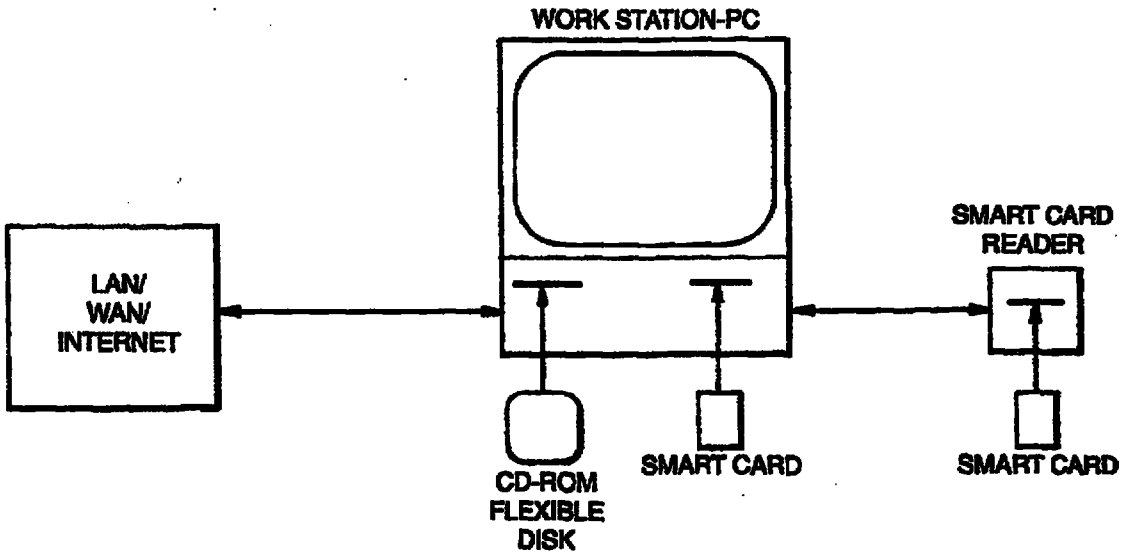
Published

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.

In English translation (filed in Norwegian).

(54) Title: PROTECTION OF SOFTWARE AGAINST USE WITHOUT PERMIT



(57) Abstract

An arrangement to protect software, particularly freely distributed application software, against utilization without permission of the copyright holder. By encrypting the software employing a key (k1) which is different from that key (k2) which is employed in the decryption, better protection is obtained against unauthorized utilization when the decryption key is kept secret to the user. Further improved security is achieved by additionally executing scrambling-descrambling of the communication between the computer in which the software is utilized and the external unit in which the decryption key is stored. Also, the external unit is arranged such that it returns to the host computer, the result from its processing of data received from the host, the result then being utilized in the further execution of the respective program.