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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06K 19/06

A3

(11) International Publication Number: WO 98/22914

(43) International Publication Date: 28 May 1998 (28.05.98)

(21) International Application Number: PCT/US97/21809

(22) International Filing Date: 20 November 1997 (20.11.97)

(30) Priority Data:
60/031,283 20 November 1996 (20.11.96) US

(71) Applicant: TECSEC, INCORPORATED [US/US]: Suite 220, 1953 Gallows Road, Vienna, VA 22182 (US).

(72) Inventors: WACK, Carl, J.; Clarksburg, MD (US). SCHEIDT, Edward, M.; McLean, VA 22101 (US). HERSHLOW, John, H.; Berkeley, NJ 08721 (US).

(74) Agent: CHAMPAGNE, Thomas; Rabin, Champagne & Lynt, P.C., Suite 1111, 1725 K Street, N.W., Washington, DC 20006 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, 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, UZ, VN, 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).

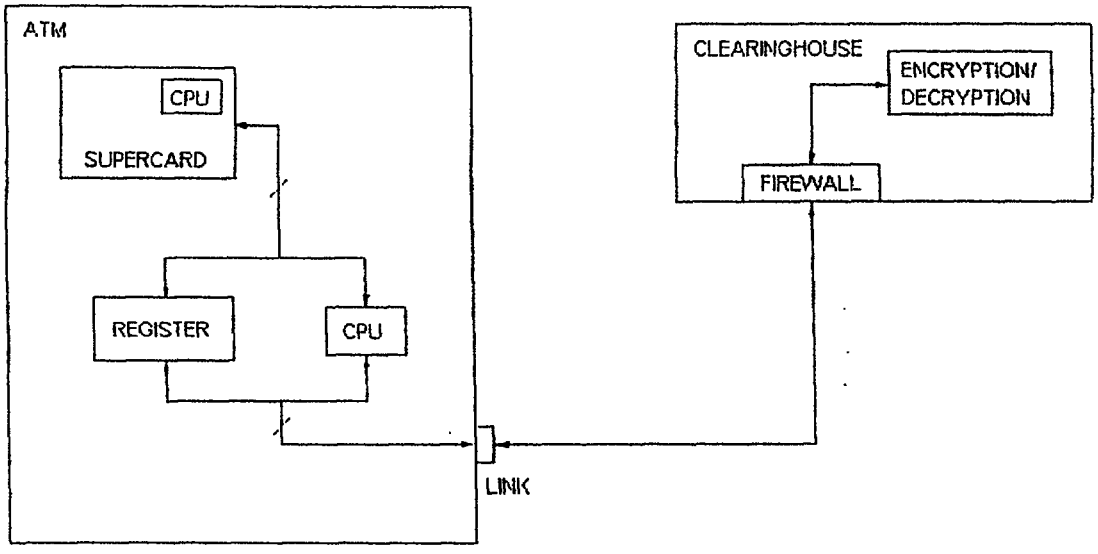
Published

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.

(88) Date of publication of the international search report:
23 July 1998 (23.07.98)

(54) Title: CRYPTOGRAPHIC MEDIUM



(57) Abstract

A cryptographic medium including embedded metallic particles. The particles provide a unique signature when the card is exposed to a radio frequency signal. The medium includes programming and storage capability, so that protocols for different types of transactions may be stored on the medium, along with personal information associated with the user of the token. The token may take the form of a plastic card, which includes an electronic module fabricated using a multi-chip module design and including the programming and storage capability. The design allows greater computing and storage capacity on the card. At least the electronic module is encapsulated in a plascon material, giving the overall card a more physically secure construction.