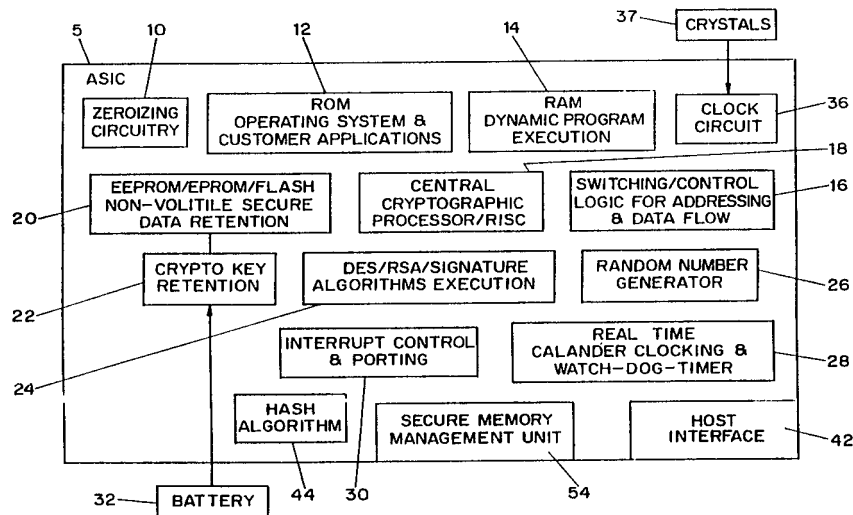




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <p>(51) International Patent Classification ⁶ : H04L 9/00</p> | <p>A3</p> | <p>(11) International Publication Number: WO 98/20461 (43) International Publication Date: 14 May 1998 (14.05.98)</p> |
| <p>(21) International Application Number: PCT/US97/15856 (22) International Filing Date: 7 November 1997 (07.11.97)</p> <p>(30) Priority Data: 60/030,537 7 November 1996 (07.11.96) US 60/050,043 18 June 1997 (18.06.97) US 60/054,105 29 July 1997 (29.07.97) US</p> <p>(71) Applicant (for all designated States except US): ASCOM HASLER MAILING SYSTEMS, INC. [US/US]; 19 Forest Parkway, Shelton, CT 06484 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): SCHWARTZ, Robert [US/US]; 191 Linden Avenue, Branford, CT 06405 (US). BROOKNER, George [US/US]; 11 Surrey Drive, Norwalk, CT 06851 (US). NACLERIO, Edward [US/US]; 49 Scenic Road, Madison, CT 06443-1738 (US).</p> <p>(74) Agent: FERENCE, Stanley, D., III; Oppedahl & Larson, Suite 309, 1992 Commerce Street, Yorktown Heights, NY 10598-4412 (US).</p> | | <p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 8 October 1998 (08.10.98)</p> |

(54) Title: SYSTEM FOR PROTECTING CRYPTOGRAPHIC PROCESSING AND MEMORY RESOURCES FOR POSTAL FRANKING MACHINES



(57) Abstract

An improved system for protecting cryptographic processing and memory for postal franking machines. Appropriate cryptographic processing and memory resources are contained in a Postal Security Device (PSD) (5), which defines a cryptographic and physical boundary. Cryptographic processing (18) occurs in the PSD, which provides security to these resources, thereby minimizing a successful fraudulent attack on the system. Speed of the cryptographic processing is also increased. The PSD may be in the form of an Applications Specific Integrated Circuit (ASIC) or Personal Computer Memory Card International Association (PCMCIA) Card.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/15856

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :H04L 9/00
US CL :380/51, 23, 50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 380/51, 23, 50, 55, 21

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
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| A, P | US 5,602,921 A (RAMADEI) 11 February, 1997 | 1-11 |
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| A | US 5,448,641 A (PINTSOV, et al.) 05 September 1995 | 1-11 |
| A | US 5,535,279 A (SEESTROM) 09 July 1996 | 1-11 |

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