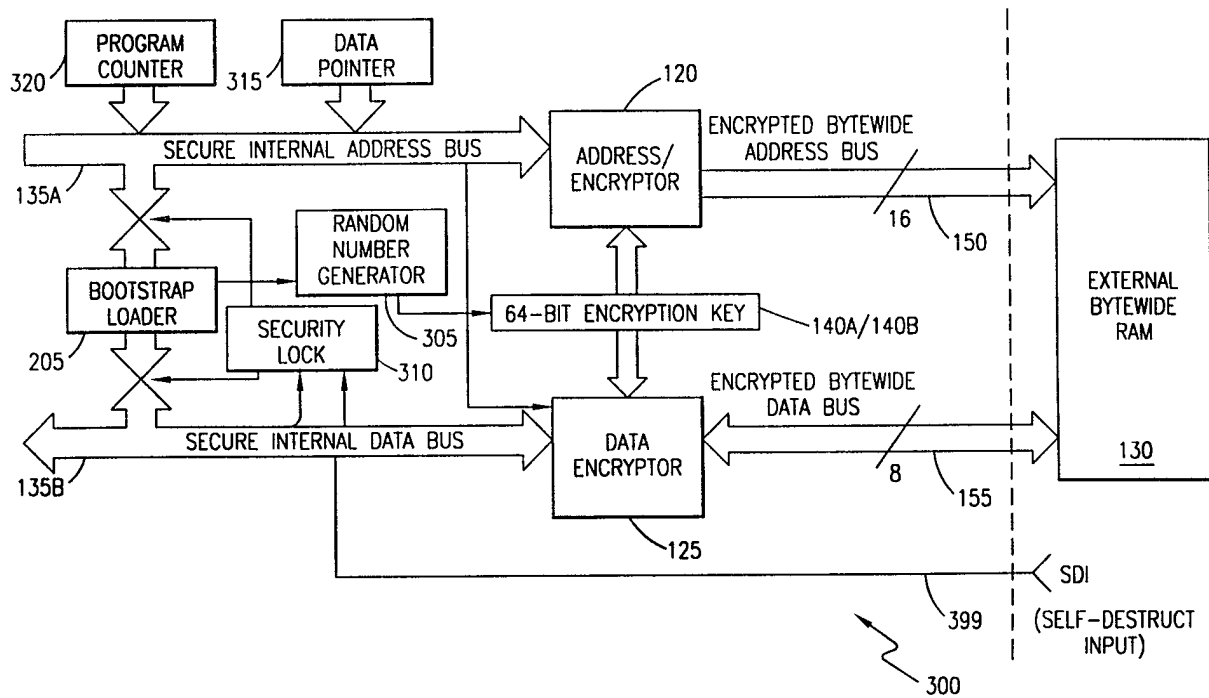




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : G06F 1/00, 12/14</p>	<p>A3</p>	<p>(11) International Publication Number: WO 98/47060 (43) International Publication Date: 22 October 1998 (22.10.98)</p>
<p>(21) International Application Number: PCT/US98/06665 (22) International Filing Date: 3 April 1998 (03.04.98) (30) Priority Data: 08/837,145 14 April 1997 (14.04.97) US (71) Applicant: DALLAS SEMICONDUCTOR CORPORATION [US/US]; 4401 South Beltwood Parkway, Dallas, TX 75244-3932 (US). (72) Inventors: LITTLE, Wendell, L.; 2300 Stonegate Circle, Denton, TX 76205 (US). CURRY, Stephen, M.; 6646 Clearhaven Circle, Dallas, TX 75248 (US). LOOMIS, Donald, W.; 316 Dakota Lane, Coppell, TX 75019 (US). SCHLUNDT, Conrad, F.; 6709 Sandtrap Court, Plano, TX 75093 (US). (74) Agents: MAXWELL, Roger, L. et al.; Jenkins & Gilchrist, P.C., Suite 3200, 1445 Ross Avenue, Dallas, TX 75202 (US).</p>	<p>(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, GW, 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, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 25 March 1999 (25.03.99)</p>	

(54) Title: SYSTEMS AND METHODS FOR PROTECTING ACCESS TO ENCRYPTED INFORMATION



(57) Abstract

A microcontroller communicating via a data path and an address path with a memory block containing encrypted contents, the microcontroller including the capability for detecting resets effectuated in the wake of an unauthorized attempt to gain access to the encrypted contents and the capability of evading such an unauthorized attempt.

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INTERNATIONAL SEARCH REPORT

Internatic Application No

PCT/US 98/06665

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 G06F1/00 G06F12/14

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)

IPC 6 G06F

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 practical, 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.
X	US 5 515 540 A (GRIDER STEPHEN N ET AL) 7 May 1996 see abstract; figure 1 see column 3, line 8 - line 29	1,9-11
Y	see column 22, line 59 - column 23, line 59 see column 29, line 41 - line 51 see claim 1	2
A	---	5-7
Y	US 5 081 675 A (KITIRUTSUNETORN KITTI) 14 January 1992 see abstract; figure 8 see column 3, line 51 - column 4, line 60 see claims 1-20	2
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Date of the actual completion of the international search	Date of mailing of the international search report
24 November 1998	01/12/1998
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Powell, D

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 00953 A (NAT SEMICONDUCTOR CORP) 11 January 1996 see abstract; figure 17 see page 17, line 30 - page 19, line 10 see page 41, line 13 - page 43, line 29 see page 52, line 1 - page 53, line 1 -----	3-8, 12, 13
A	US 4 319 079 A (BEST ROBERT M) 9 March 1982 -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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