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<b>(51) International Patent Classification</b> <sup>6</sup> : <b>H04M 11/00</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 97/04602</b> <b>(43) International Publication Date:</b> 6 February 1997 (06.02.97)
<b>(21) International Application Number:</b> PCT/US96/12072 <b>(22) International Filing Date:</b> 19 July 1996 (19.07.96) <b>(30) Priority Data:</b> 08/504,271 19 July 1995 (19.07.95) US <b>(71) Applicant:</b> LOCKHEED MARTIN CORPORATION [US/US]; 65 Spit Brook Road, P.O. Box 868, Nashua, NH 03061 (US). <b>(72) Inventors:</b> ROWELL, Michael, L.; 32 Union Street, Milford, NH 03055 (US). PIRKEY, Roger, D.; 165 Broadmoor Road, Lake Mary, FL 32746 (US). CAMACHO, Luz, M.; 107 Tate Court, Orlando, FL 32828 (US). <b>(74) Agent:</b> GOMES, David, W.; Lockheed Martin Corporation, P.O. Box 868, Nashua, NH 03061 (US).	<b>(81) Designated States:</b> BR, CA, CN, KR, MX, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 17 April 1997 (17.04.97)	
<b>(54) Title:</b> METHOD FOR USING PERSONAL IDENTIFICATION NUMBERS WITH TELECOMMUNICATIONS CALLS		
<b>(57) Abstract</b> <p>Personal identification numbers, PINs, are used with cellular telephones to reduce fraudulent cellular usage of stolen and cloned cell phones. Wireless transmission of PINs can result in interception thereof by the same means that are used to intercept cell phone account numbers and serial numbers to produce cloned cell phones. Wireless transmission of PINs is reduced by only requiring the use of a PIN when a telephone number being called by a cell phone or subscriber does not match a list of numbers previously called by that particular cell phone or subscriber. The invention is useful wherever PINs are used to reduce cell phone fraud.</p>		

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INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US96/12072

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(6) :H04M 11/00  
US CL : 379/58, 62, 59  
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. : 379/58, 62, 59; 455/33.1, 33.2

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)  
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**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 5,345,595 (JOHNSON ET AL.) 06 September 1994; Fig. 1B; Fig. 2; Fig. 3A; Fig. 6; col. 6, line 33 to col. 8, line 8; col. 10, line 64 to col. 11, line 6.	1-9
Y,P	US, A, 5,517,555 (AMADON ET AL.) 14 May 1996; Fig. 9.	8
Y	US, A, 5,335,278 (MATCHETT ET AL.) 02 August 1994; col. 9, line 44 to col. 10, line 15.	2, 4, 6, 7 and 9
Y	US, A, 5,325,418 (MCGREGOR ET AL.) 28 June 1994; col. 7, line 41 to col. 8, line 14.	2 and 6
Y	US, A, 5,200,995 (GAUKEL ET AL.) 06 April 1993; Fig. 4A; col. 15, line 56 to col. 16, line 50.	1, 2, 3, 6, 7 and 8

Further documents are listed in the continuation of Box C.  See patent family annex.

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International application No.  
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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.
Y,E	US, A, 5,555,551 (RUDOKAS ET AL.) 10 September 1996; col. 5, line 40 to col. 6, line 7.	1-9
Y,P	US, A, 5,509,052 (CHIA ET AL.) 16 April 1996; Fig.4-7; col. 4, line 40 to col. 6, line 44.	1-9