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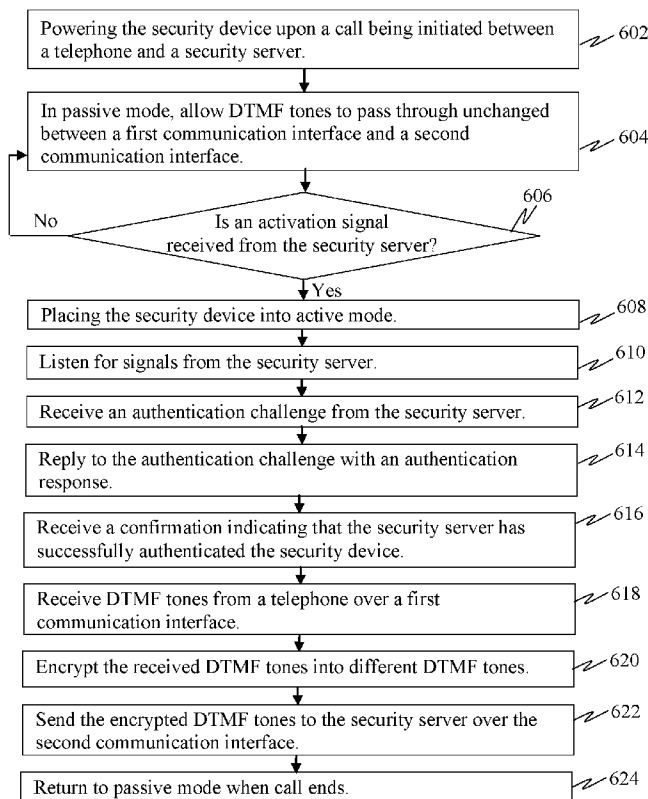
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(54) Title: METHOD AND DEVICE FOR SECURE PHONE BANKING



(57) Abstract: A small form-factor security device is provided that may be inserted in series with a telephone line to encrypt dual tone multi-frequency (DTMF) tones from a telephone to prevent unauthorized disclosure of sensitive information. A receiving device decrypts the encrypted DTMF tones to receive the original information sent by the telephone. The security device acts as a second factor in a two-factor authentication scheme with a tele-services security server that authenticates the security device.

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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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)

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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.
X	DE 43 25 459 A1 (C2S GMBH CRYPTOGRAFISCHE SICHE [DE]) 9 February 1995 (1995-02-09) abstract column 1, line 1 - column 1, line 37 column 2, line 12 - column 4, line 18 claims 1,15 figures 1-4	1-53
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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.
X	US 2002/046092 A1 (OSTROFF MAURICE [IL]) 18 April 2002 (2002-04-18) figures 2-6 paragraphs [0082], [0083] paragraphs [0144] - [0151] claims 1,10,15	1-53

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date																														
DE 4325459	A1	09-02-1995	NONE																														
US 6704715	B1	09-03-2004	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">AT</td> <td style="width: 35%;">316725 T</td> <td style="width: 50%;">15-02-2006</td> </tr> <tr> <td>AU</td> <td>4388897 A</td> <td>17-04-1998</td> </tr> <tr> <td>DE</td> <td>69735166 T2</td> <td>16-11-2006</td> </tr> <tr> <td>DK</td> <td>0950303 T3</td> <td>29-05-2006</td> </tr> <tr> <td>EP</td> <td>0950303 A1</td> <td>20-10-1999</td> </tr> <tr> <td>ES</td> <td>2257781 T3</td> <td>01-08-2006</td> </tr> <tr> <td>FR</td> <td>2753860 A1</td> <td>27-03-1998</td> </tr> <tr> <td>WO</td> <td>9813971 A1</td> <td>02-04-1998</td> </tr> <tr> <td>JP</td> <td>2001508563 T</td> <td>26-06-2001</td> </tr> <tr> <td>PT</td> <td>950303 T</td> <td>30-06-2006</td> </tr> </table>	AT	316725 T	15-02-2006	AU	4388897 A	17-04-1998	DE	69735166 T2	16-11-2006	DK	0950303 T3	29-05-2006	EP	0950303 A1	20-10-1999	ES	2257781 T3	01-08-2006	FR	2753860 A1	27-03-1998	WO	9813971 A1	02-04-1998	JP	2001508563 T	26-06-2001	PT	950303 T	30-06-2006
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