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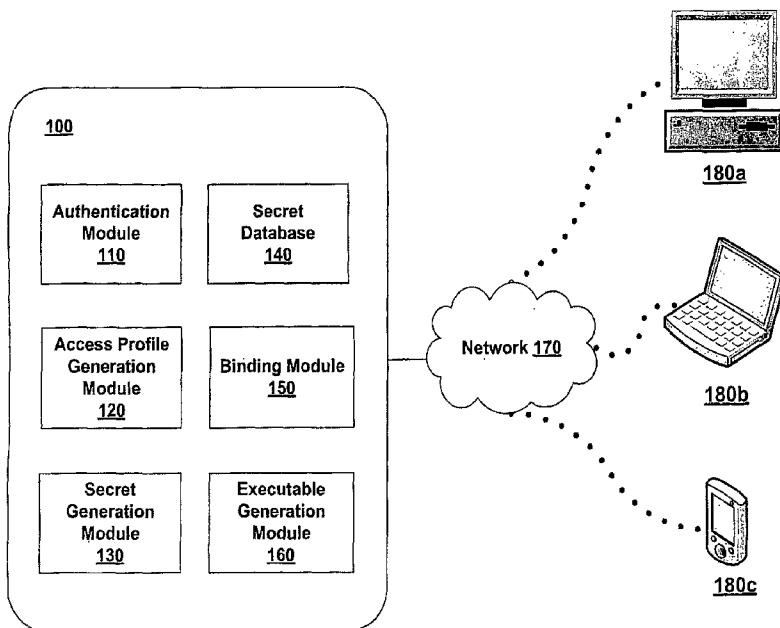
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[Continued on next page]

(54) Title: DYNAMIC AUTHENTICATION IN SECURED WIRELESS NETWORKS



(57) Abstract: Systems and methods for authentication using paired dynamic secrets in secured wireless networks are provided. Each authenticated user is assigned a random secret generated so as to be unique to the user. The secret is associated with a wireless interface belonging to the user, so that no other wireless interface may use the same secret to access the network. The secret may be updated either periodically or at the request of a network administrator, and reauthentication of the wireless network may be required.

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PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 15/173 (2007.10)

USPC - 709/225

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)

USPC - 709/225

* Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 709/223, 224, 225, 226; 726/1, 2, 3, 4, 5, 9, 21, 26 -- text search, see search terms below

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

PubWEST(PGPB,USPT,USOC,EPAB,JPAB); DialogPRO(Engineering); Google Scholar

Search Terms Used: authenticat, user, pair, secret, associate, associated, association, bind, binding, bound, device, unique, password, wireless, verisign, digital, certificate, key, application, random

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,950,523 B1 (BRICKELL et al.) 27 September 2005 (27.09.2005), entire document especially Figs 1, 2; col 2, ln 58-62; col 3, ln 8-12; col 4, ln 60-67; col 5, ln 1-8, 18-29; col 6, ln 60-66.	1-22
Y	US 2006/0080741 A1 (NAIR) 13 April 2006 (13.04.2006), entire document especially Figs 7, 9; para [0015], [0034], [0037], [0040], [0044]-[0045], [0049], [0053]-[0055].	1-22
Y	US 2006/0080415 A1 (TU) 13 April 2006 (13.04.2006), entire document especially Figs 5, 6A; para [0047], [0051], [0055], [0072], [0073].	5 and 13
Y	US 2005/0268107 A1 (HARRIS et al.) 01 December 2005 (01.12.2005), especially para [0149].	7

 Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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