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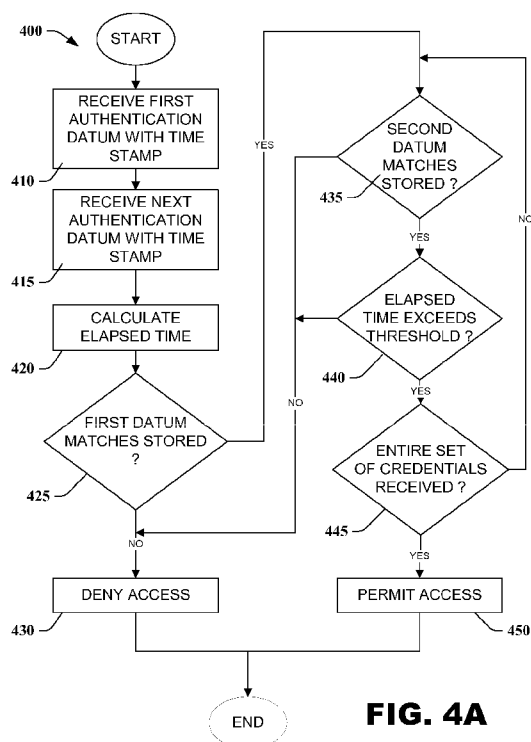


FIG. 4A

(57) Abstract: An apparatus for managing access to a computing resource, comprises a clock configured to associate a datum arrival time with an authentication datum. The clock is further configured to calculate a datum elapsed time between a first datum arrival time associated with a first authentication datum and a second datum arrival time associated with a second authentication datum. The apparatus also comprises an authentication module configured to receive at least the first authentication datum and the second authentication datum; compare the datum elapsed time with a threshold elapsed time; and selectively provide access to a computing resource based at least in part upon successfully matching the received first authentication datum with a stored first authentication datum, successfully matching the received second authentication datum with a stored second authentication datum, and determining that the datum elapsed time exceeds the datum threshold time.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 9/00 (2012.01)

USPC - 713/182

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(8) - H04L 9/00, 9/32, G06F 12/14 (2012.01)

USPC - 713/182, 184, 382/115

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)

Patbase, Elsevier Inc Engineering Village: Compendex, Inspec, NTIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2006/0280339 A1 (CHO) 14 December 2006 (14.12.2006) entire document	1-3, 7-9, 13-20, 23-31, 39-44 ----
Y	US 6,898,711 B1 (BAUMAN et al) 24 May 2005 (24.05.2005) entire document	4-6, 10-12, 21-22, 32-38
Y	US 2004/0143767 A1 (SCHREIBER et al) 22 July 2004 (22.07.2004) entire document	4-6, 10-12, 21-22
Y	US 2004/0143767 A1 (SCHREIBER et al) 22 July 2004 (22.07.2004) entire document	32-38
A	US 2009/0013403 A1 (MORIMOTO) 08 January 2009 (08.01.2009) entire document	1-44



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