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Dharmarajan

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(54) **METHOD AND SYSTEM FOR
AUTHORIZING A CLIENT COMPUTER TO
ACCESS A SERVER COMPUTER**

(75) Inventor: **Baskaran Dharmarajan**, Mountain
View, CA (US)

(73) Assignee: **Microsoft Corporation**, Redmond, WA
(US)

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(52) **U.S. Cl.** **726/8; 713/150; 726/2;**
726/4; 726/21; 709/201; 709/219; 709/229;
370/401; 370/312; 370/332; 380/286

(58) **Field of Classification Search** **713/201,**
713/100, 150; 714/42; 380/286; 370/401,
370/312, 332; 705/1, 400; 709/219, 229,
709/201; 726/3, 8-10, 2, 21, 4

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,455,953 A * 10/1995 Russell 710/266
5,481,539 A * 1/1996 Hershey et al. 370/312
5,721,777 A * 2/1998 Blaze 380/286
5,999,711 A * 12/1999 Misra et al. 713/201
6,005,853 A * 12/1999 Wang et al. 370/332
6,041,357 A * 3/2000 Kunzelman et al. 709/228
6,088,451 A * 7/2000 He et al. 713/201
6,101,486 A * 8/2000 Roberts et al. 705/27
6,236,971 B1 * 5/2001 Stefik et al. 705/1
6,240,512 B1 * 5/2001 Fang et al. 713/150
6,263,432 B1 * 7/2001 Sasmazel et al. 713/100

6,401,223 B1 * 6/2002 DePenning 714/42
6,427,209 B1 * 7/2002 Brezak et al. 713/201
6,510,464 B1 * 1/2003 Grantges et al. 709/225
6,678,733 B1 * 1/2004 Brown et al. 709/229
6,877,095 B1 * 4/2005 Allen 713/182
2003/0067926 A1 * 4/2003 Golikeri et al. 370/401

* cited by examiner

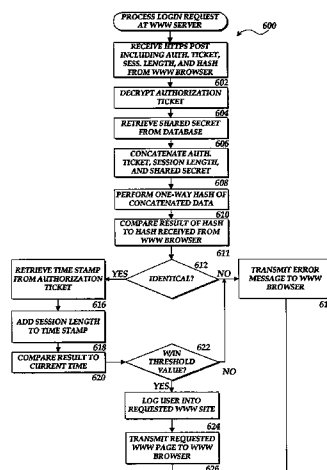
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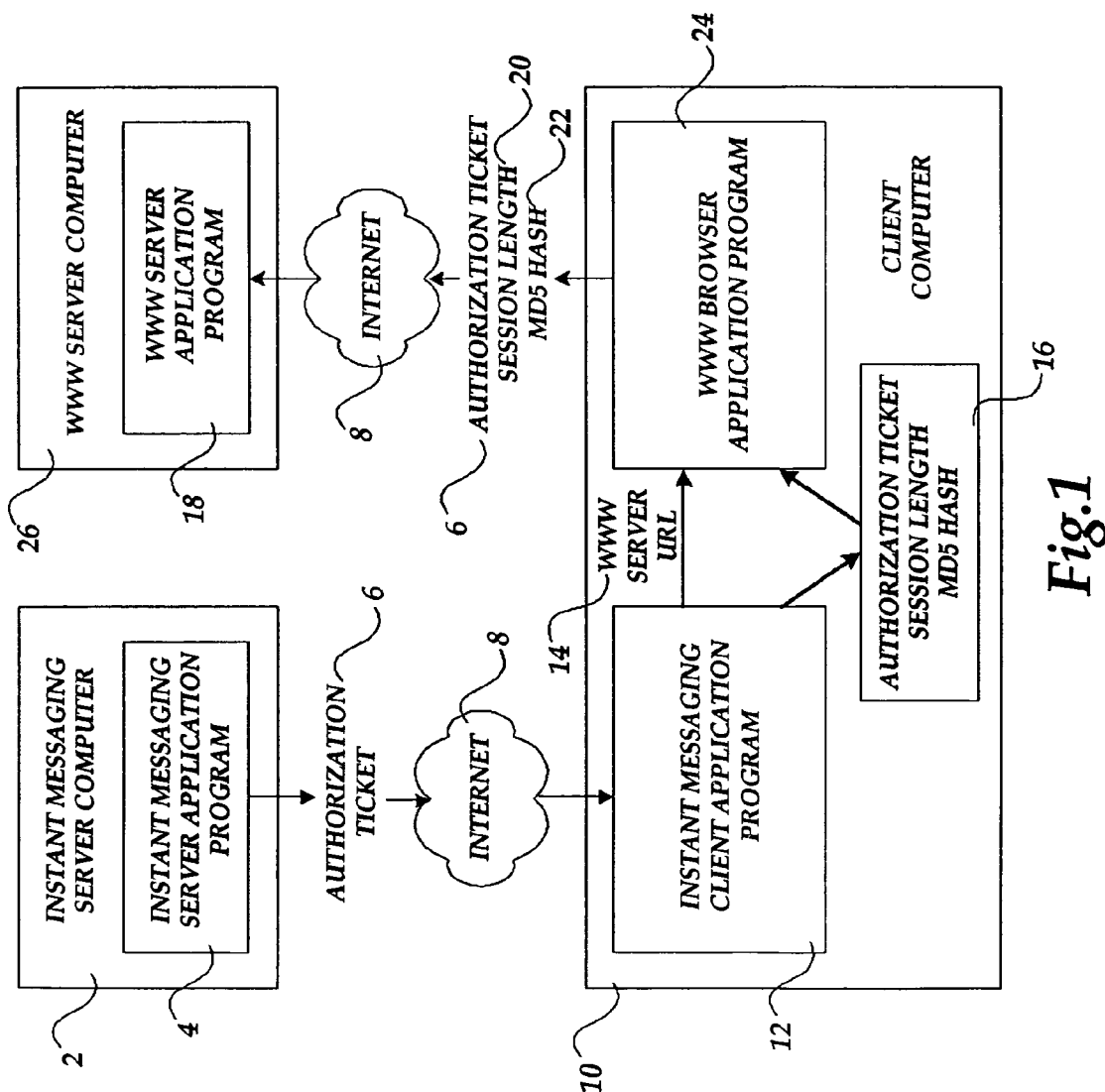
(74) *Attorney, Agent, or Firm*—Christensen O'Connor
Johnson Kindness PLLC

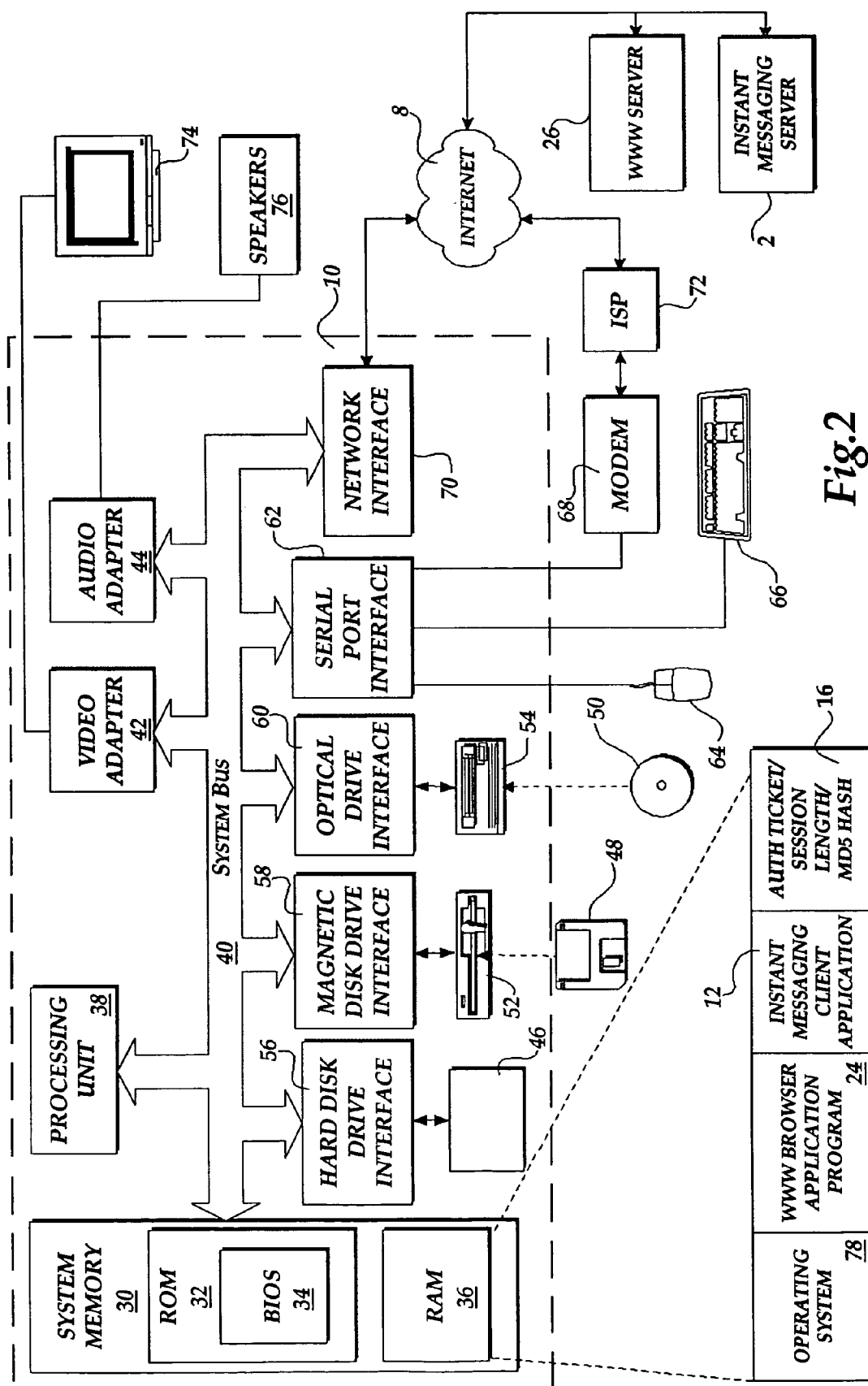
(57) **ABSTRACT**

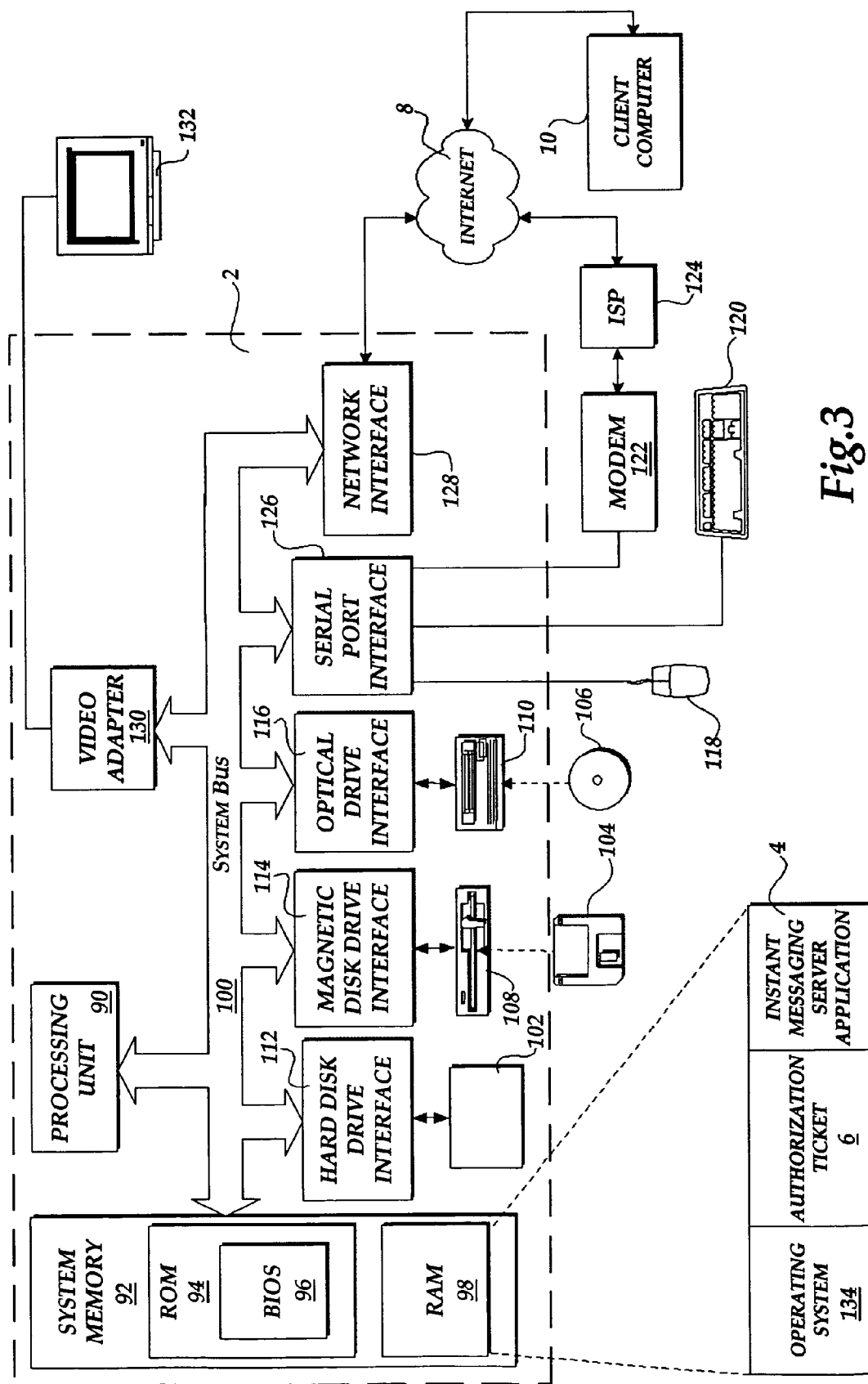
The present invention includes a client computer, a first server computer, and a second server computer. The first server provides an authorization ticket containing a time stamp to the client computer when the client computer is authorized to access the first server. An elapsed time counter is started at the client computer when access is provided to the first server. When a request is received at the client computer to access the second server, the client computer determines the session length based upon the elapsed time counter. The client computer calculates a hash value for the authorization ticket, the session length, and a secret shared with the second server computer. The client computer transmits a login request to the second server including the authorization ticket, the session length, and the hash. The second server decrypts the authorization ticket and retrieves a copy of the shared secret. The second server executes a hash function on the authorization ticket, the session length, and the shared secret. The second server then compares the computed hash to the hash value received from the second client application. If the two hash values are identical, the second server retrieves the time stamp from the authorization ticket and adds the session length to the time stamp. The second server then compares the resulting value to the current time. If the resulting value and the current time are within a preset threshold value, the client computer is provided.

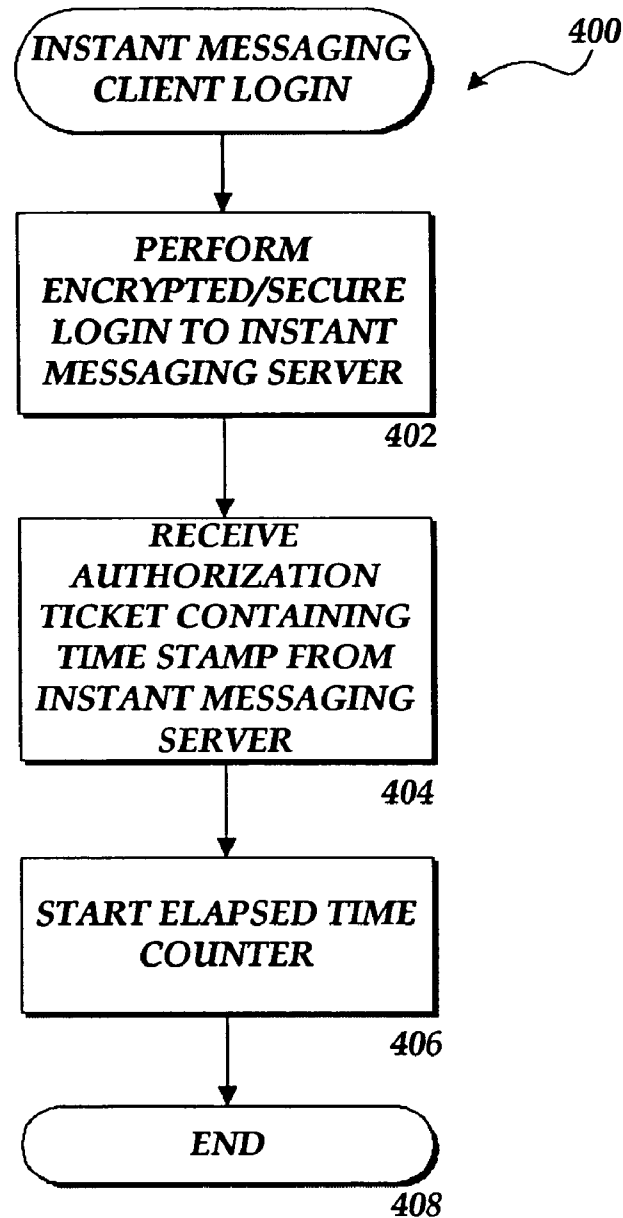
21 Claims, 6 Drawing Sheets



*Fig. 1*





*Fig.4*

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