



US007418504B2

(12) **United States Patent**
Larson et al.

(10) **Patent No.:** **US 7,418,504 B2**
(45) **Date of Patent:** **Aug. 26, 2008**

(54) **AGILE NETWORK PROTOCOL FOR SECURE COMMUNICATIONS USING SECURE DOMAIN NAMES**

(58) **Field of Classification Search** 709/226,
709/221; 713/201
See application file for complete search history.

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 646 days.

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(21) **Appl. No.:** **10/714,849**

Laurie Wells (Lancasterbibemail MSN Com); "Subject: Security Icon" Usenet Newsgroup, Oct. 19, 1998, XP002200606.

(22) **Filed:** **Nov. 18, 2003**

(Continued)

(65) **Prior Publication Data**
US 2004/0098485 A1 May 20, 2004

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Related U.S. Application Data

(63) Continuation of application No. 09/558,210, filed on Apr. 26, 2000, now abandoned, which is a continuation-in-part of application No. 09/504,783, filed on Feb. 15, 2000, now Pat. No. 6,502,135, which is a continuation-in-part of application No. 09/429,643, filed on Oct. 29, 1999, now Pat. No. 7,010,604.

(57) **ABSTRACT**

(60) Provisional application No. 60/137,704, filed on Jun. 7, 1999, provisional application No. 60/106,261, filed on Oct. 30, 1998.

A secure domain name service for a computer network is disclosed that includes a portal connected to a computer network, such as the Internet, and a domain name database connected to the computer network through the portal. The portal authenticates a query for a secure computer network address, and the domain name database stores secure computer network addresses for the computer network. Each secure computer network address is based on a non-standard top-level domain name, such as .scom, .sorg, .snet, .snet, .sedu, .smil and .sint.

(51) **Int. Cl.**
G06F 15/173 (2006.01)

(52) **U.S. Cl.** 709/226

60 Claims, 40 Drawing Sheets

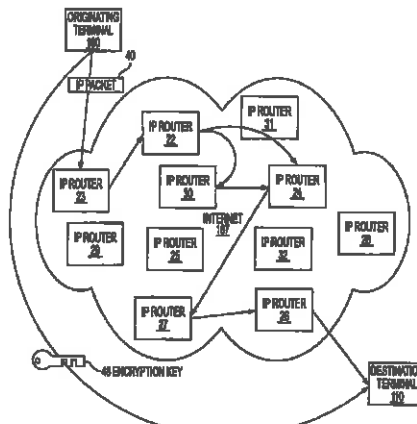


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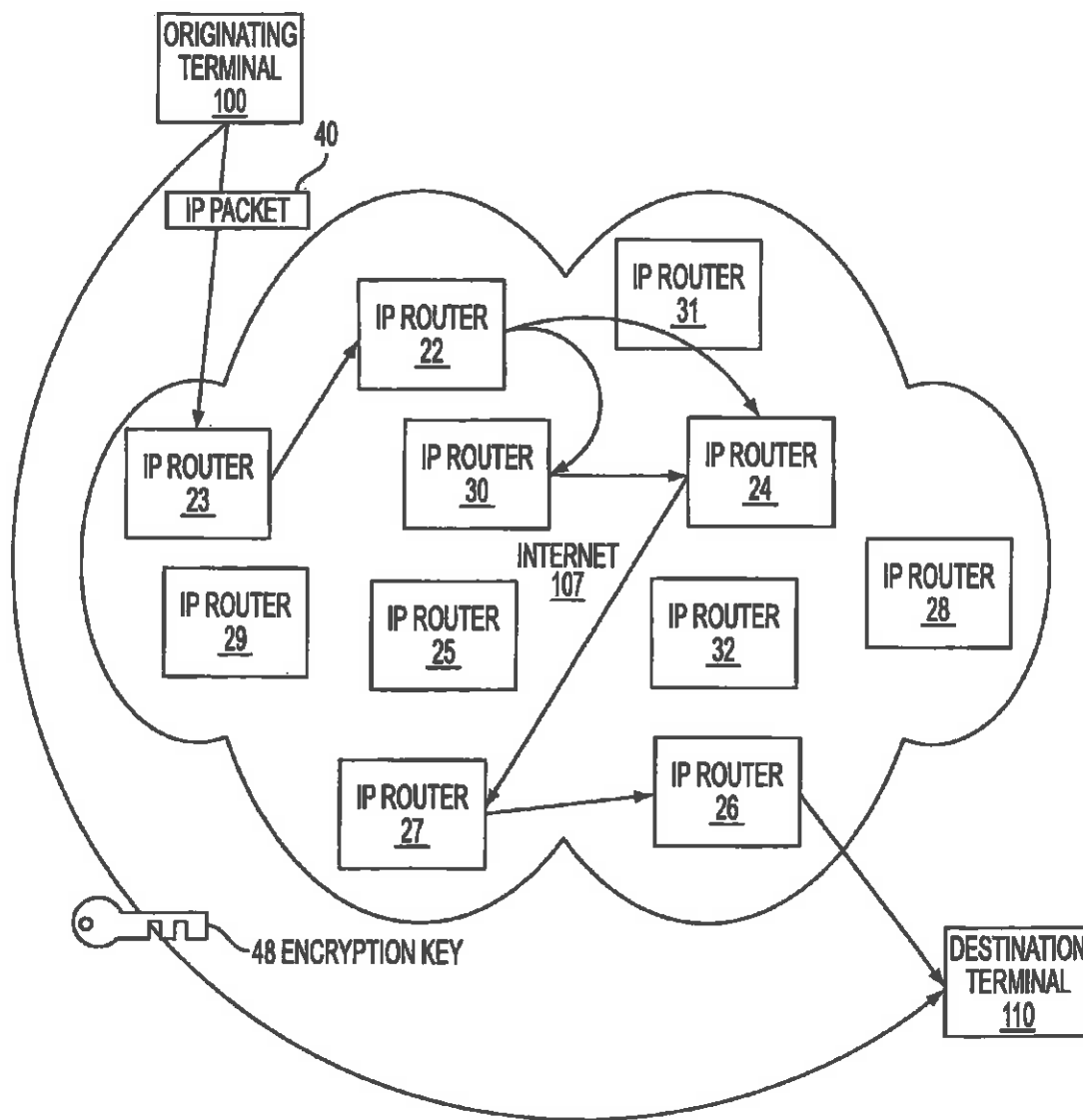


FIG. 1

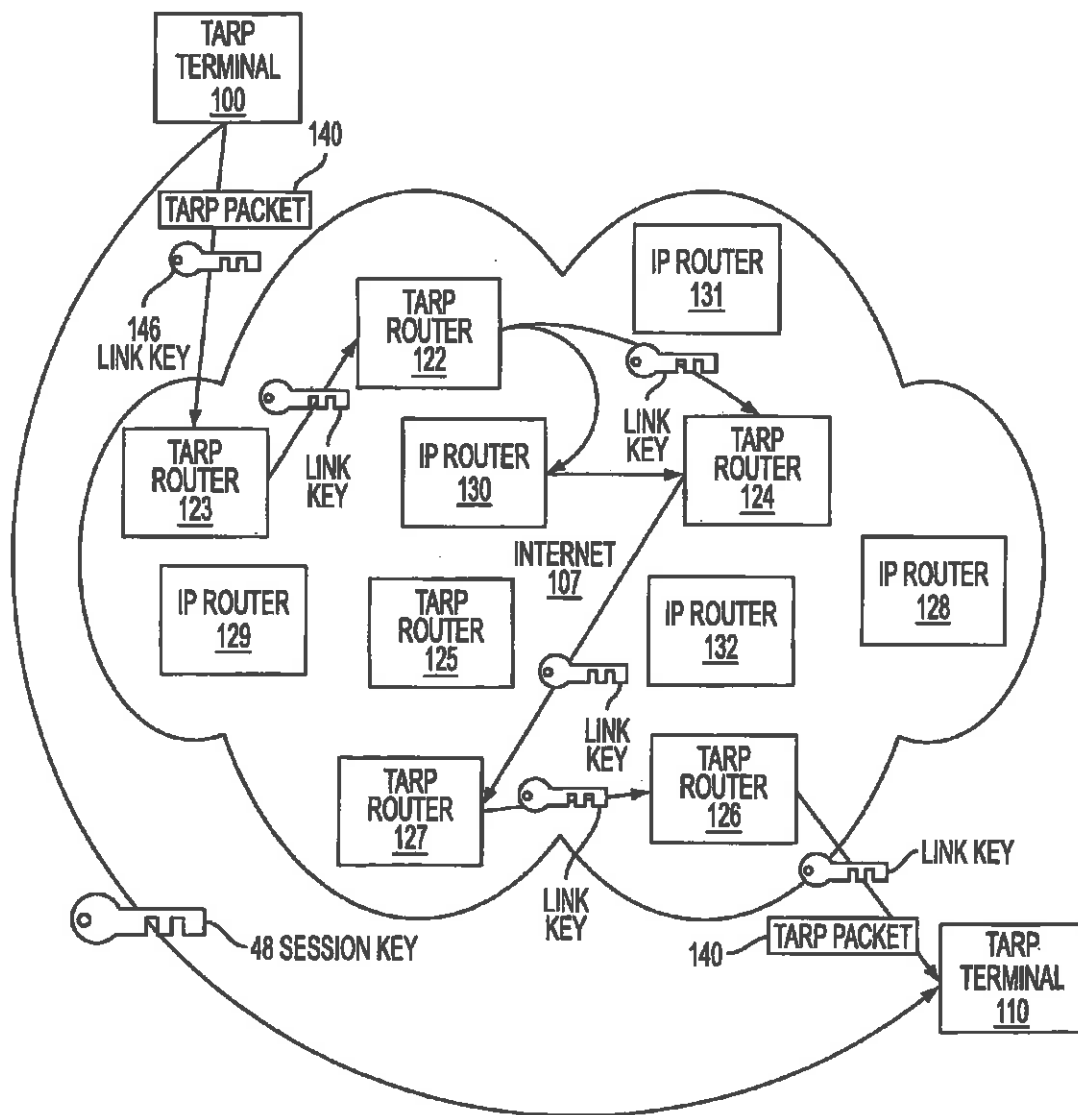


FIG. 2

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