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Larson et al.

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(54) **METHOD FOR ESTABLISHING SECURE COMMUNICATION LINK BETWEEN COMPUTERS OF VIRTUAL PRIVATE NETWORK**

(58) **Field of Classification Search** 709/225-229, 709/245
See application file for complete search history.

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(57) **ABSTRACT**

A technique is disclosed for establishing a secure communication link between a first computer and a second computer over a computer network. Initially, a secure communication mode of communication is enabled at a first computer without a user entering any cryptographic information for establishing the secure communication mode of communication. Then, a secure communication link is established between the first computer and a second computer over a computer network based on the enabled secure communication mode of communication. The secure communication link is a virtual private network communication link over the computer network in which one or more data values that vary according to a pseudo-random sequence are inserted into each data packet.

29 Claims, 40 Drawing Sheets

(73) Assignee: **Virnetx, Inc.**, Scotts Valley, CA (US)

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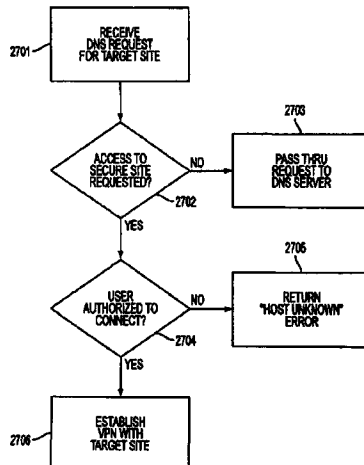
Related U.S. Application Data

(60) Division of application No. 09/558,209, 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.

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- Exhibit 2, IETF RFC 2065: Domain Name System Security Extensions; Published Jan. 1997¹ vs. Claims of the '504 Patent².
- Exhibit 3, RFC 2543¹ vs. Claims of the '135 Patent².
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- Exhibit 5, RFC 2543¹ vs. Claims of the '504 Patent².
- Exhibit 6, SIP Draft v.2¹ vs. Claims of the '135 Patent².
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- Exhibit 21, iPass¹ vs. Claims of the '135 Patent².
- Exhibit 22, iPASS¹ vs. Claims of the '211 Patent².
- Exhibit 23, iPASS¹ vs. Claims of the '504 Patent².
- Exhibit 24, "US '034"¹ vs. Claims of the '135 Patent².
- Exhibit 25, US Patent No. 6,453,034 ("US '034")¹ vs. Claims of the '211 Patent².
- Exhibit 26, US Patent No. 6,453,034 ("US '034")¹ vs. Claims of the '504 Patent².
- Exhibit 27, US '287¹ vs. Claims of the '135 Patent².
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- Exhibit 95, GB '841¹ vs. Claims of the '211 Patent².
- Exhibit 96, GB '841¹ vs. Claims of the '504 Patent².
- Exhibit 97, US '318¹ vs. Claims of the '135 Patent².
- Exhibit 98, US '318¹ vs. Claims of the '211 Patent².
- Exhibit 99, US '318¹ vs. Claims of the '504 Patent².
- Exhibit 100, VPN/VLAN¹ vs. Claims of the '135 Patent².
- Exhibit 101, Nikkei¹ vs. Claims of the '135 Patent².
- Exhibit 102, Nikkei¹ vs. Claims of the '211 Patent².
- Exhibit 103, Nikkei¹ vs. Claims of the '504 Patent².
- Exhibit 104, Special Anthology¹ vs. Claims of the '135 Patent².

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