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(54) **TRANSMISSION OF SYSLOG MESSAGES OVER A ONE-WAY DATA LINK**

(75) Inventors: **James Hope**, Greenwich, CT (US);  
**Ronald Mraz**, South Salem, NY (US);  
**Andrew Holmes**, Darien, CT (US)

(73) Assignee: **Owl Computing Technologies, Inc.**,  
Ridgefield, CT (US)

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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,672,601 A	6/1987	Ablay	370/277
5,282,200 A	1/1994	Dempsey et al.	370/245
5,703,562 A	12/1997	Nilsen	
5,769,527 A	6/1998	Taylor et al.	362/85
5,983,332 A	11/1999	Watkins	711/202
6,108,787 A	8/2000	Anderson et al.	
6,262,993 B1	7/2001	Kirmse	370/463
6,269,398 B1	7/2001	Leong et al.	
6,415,329 B1	7/2002	Gelman et al.	
6,546,422 B1	4/2003	Isoyama et al.	709/225
6,665,268 B1	12/2003	Sato et al.	370/242
6,728,213 B1	4/2004	Tzeng et al.	370/235
6,731,625 B1	5/2004	Eastep et al.	
6,792,432 B1	9/2004	Kodavala et al.	707/103 R

6,807,166 B1 *	10/2004	Ohura	370/352
6,954,790 B2	10/2005	Forslow	
6,988,148 B1 *	1/2006	Sheth	709/245
7,007,301 B2	2/2006	Crosbie et al.	
7,016,085 B2 *	3/2006	Gonzalez et al.	358/405
7,020,697 B1	3/2006	Goodman et al.	
7,095,739 B2	8/2006	Mamillapalli et al.	370/390
7,134,141 B2	11/2006	Crosbie et al.	

(Continued)

**FOREIGN PATENT DOCUMENTS**

WO WO 2004/105297 A2 12/2004

**OTHER PUBLICATIONS**

Ian Eaton, "The Ins and Outs of System Logging Using Syslog," 2003, SANS Institute, Australia.

(Continued)

*Primary Examiner* — David Y Eng

(74) *Attorney, Agent, or Firm* — Amster, Rothstein & Ebenstein LLP

(57) **ABSTRACT**

A special syslog daemon on a send node, wherein the send node is connected to a receive node by a one-way data link, the special syslog daemon configured to receive a syslog message from a syslog sender, insert a portion of IP information of the syslog sender in the body of the received syslog message and route the resulting syslog message to the one-way data link so that the resulting syslog message can be sent through the one-way data link to a syslog receiver communicatively coupled to the receive node. The present invention resolves the potential conflict between syslog and one-way data transfer applications that are configured to remove IP information from data prior to its passage through a one-way data link, thereby leading to a further enhancement of network security through their combination.

**10 Claims, 2 Drawing Sheets**

