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# United States Patent [19]

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**Voit**

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- [54] **ENHANCED INTERNET DOMAIN NAME SERVER**
- [75] Inventor: **Eric A. Voit**, Baltimore, Md.
- [73] Assignee: **Bell Atlantic Network Services, Inc.**,  
Arlington, Va.
- [21] Appl. No.: **08/812,075**
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- [51] Int. Cl.<sup>7</sup> ..... **H04L 12/64**
- [52] U.S. Cl. .... **370/352; 370/410; 370/475;**  
709/245
- [58] **Field of Search** ..... 370/352, 353,  
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522, 466, 467, 241, 475; 379/88.17; 709/245,  
225, 223

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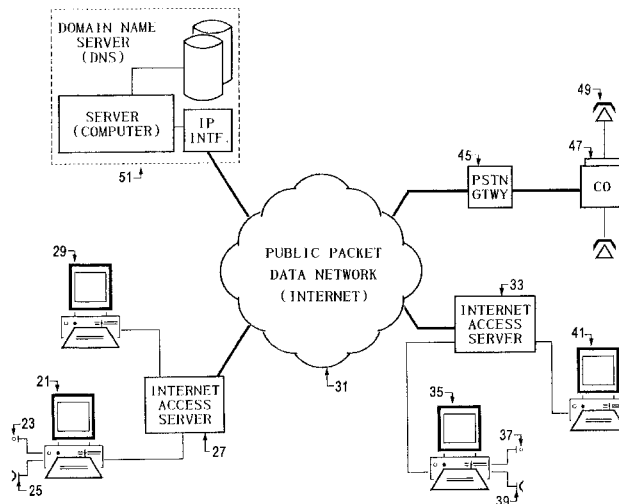
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[57] **ABSTRACT**

An enhanced name translation server, for use on a packet data network such as the Internet, executes a conditional analysis in response to at least some queries or requests for name translations. For example, the server may return a different destination address at different times or in response to translation requests from different terminals. The server also can query a primary destination terminal device, and condition the response to the calling terminal on the status of the primary terminal. For example, if the primary terminal is 'live' the server forwards the address of that terminal to the calling terminal device to set up communications. Otherwise, the server returns alternate destination address information. The server also supports a wide variety of different types of translations, including domain name to address, domain name to telephone number, and telephone number to address. The enhanced translations offer called customers numerous options for controlling communications directed toward them, and the customers may elect to apply these options both to their data communications services and their voice communications services through the packet data network.

**37 Claims, 5 Drawing Sheets**



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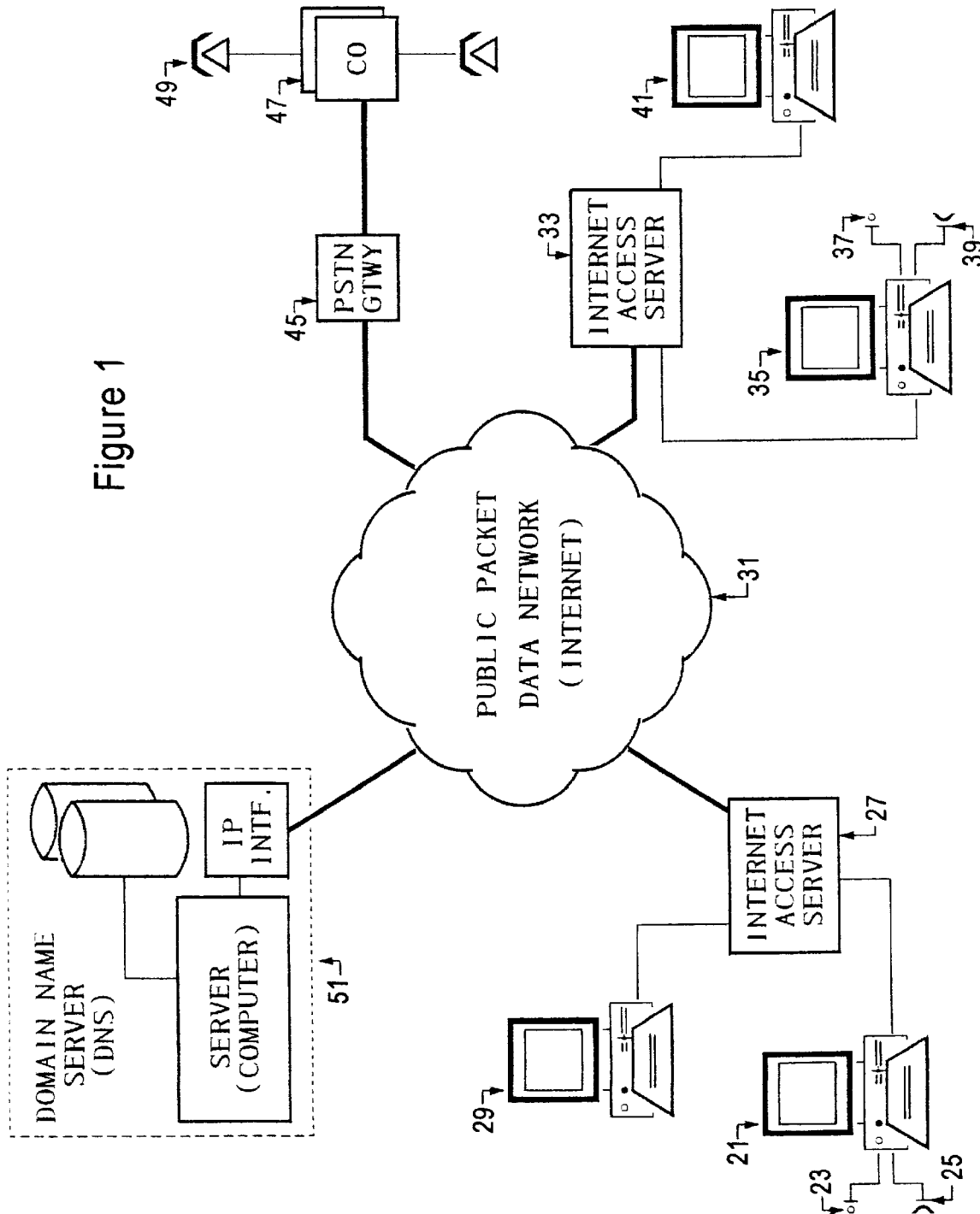


Figure 1

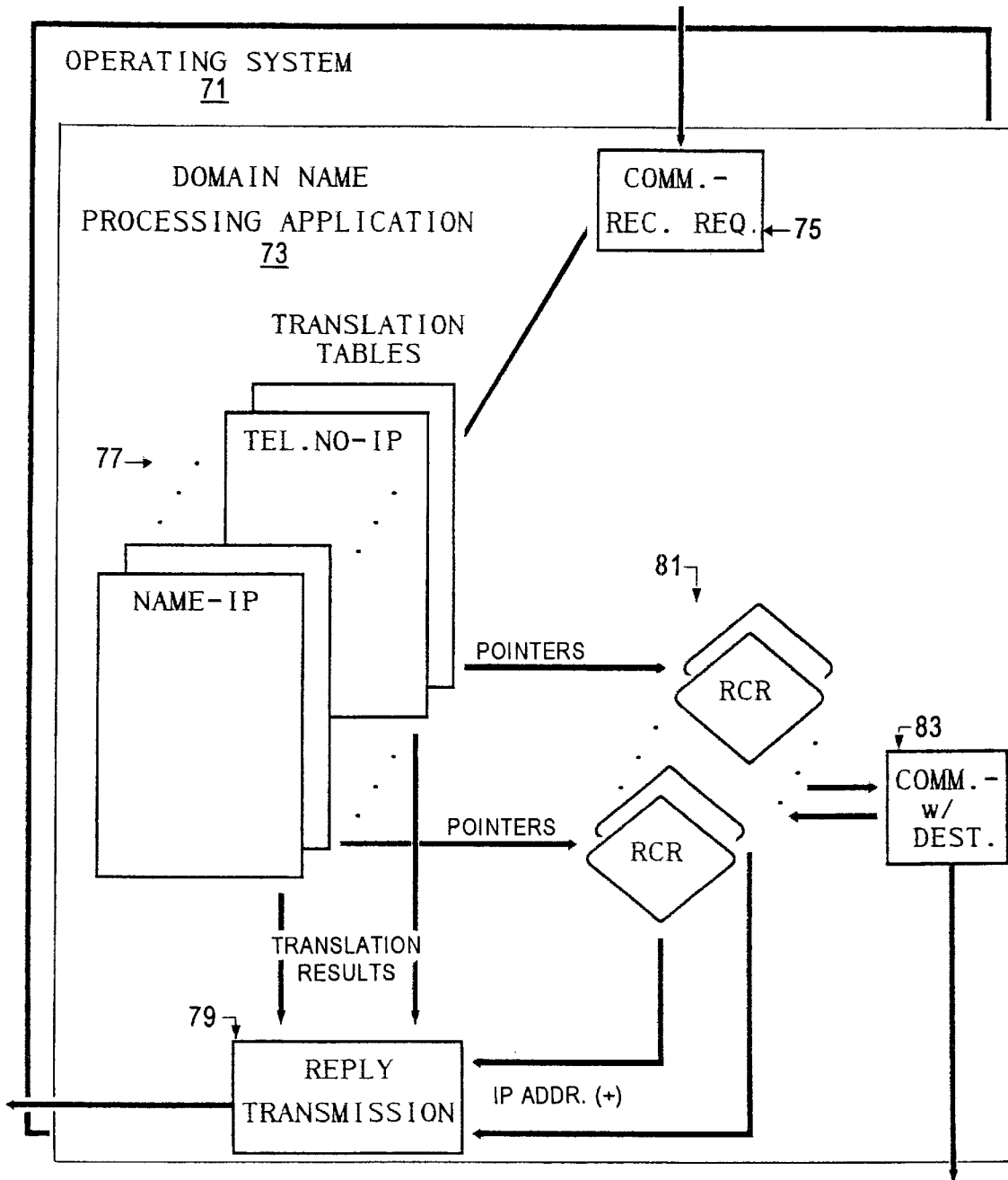
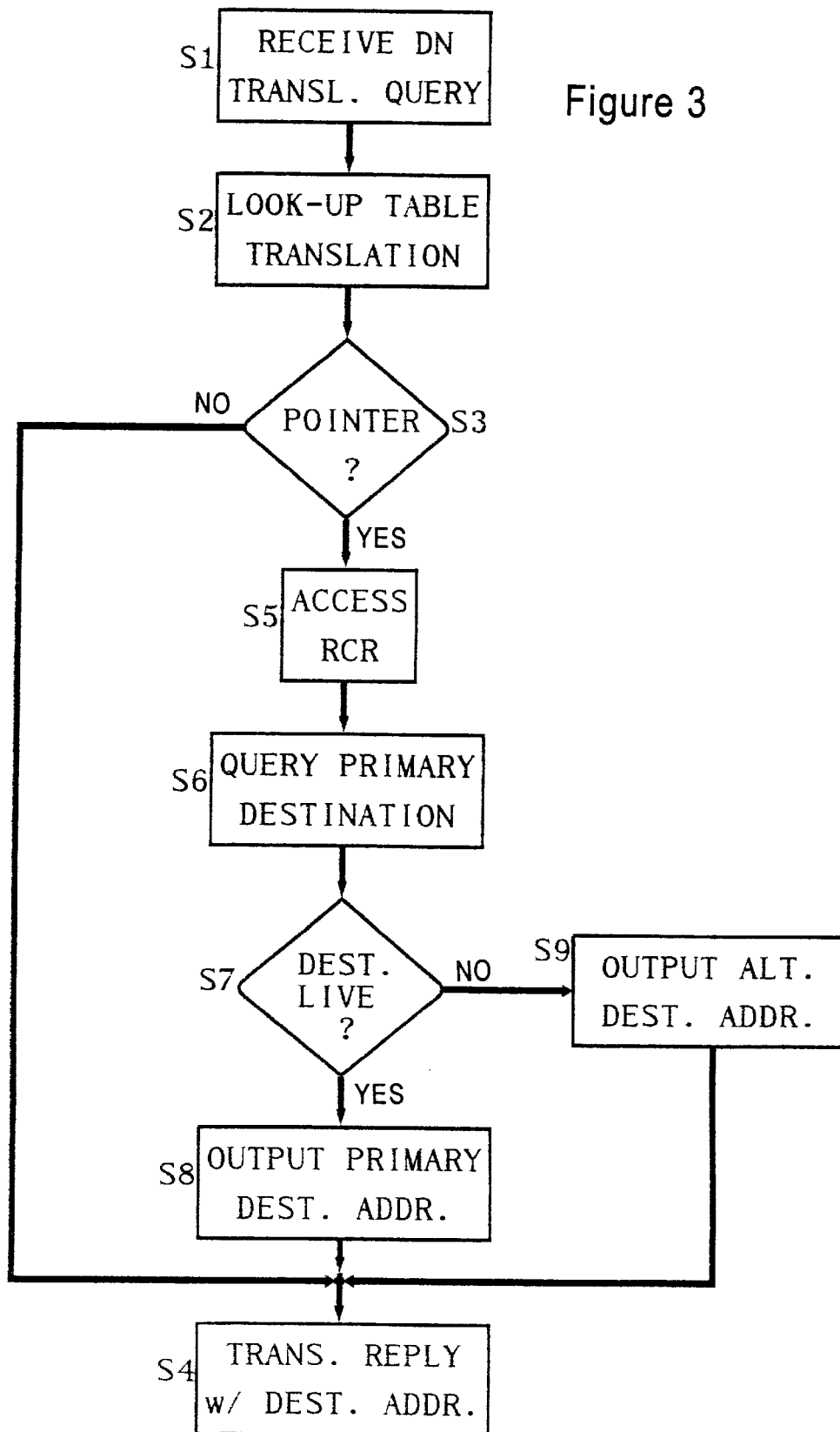


Figure 2

Figure 3



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