US006122743A

United States Patent [19]

Shaffer et al.

[11] **Patent Number: 6,122,743**

[45] **Date of Patent: Sep. 19, 2000**

[54] **SYSTEM FOR PROVIDING ENHANCED SECURITY FOR TRANSACTIONS TRANSMITTED THROUGH A DISTRIBUTED NETWORK**

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[73] Assignee: **Siemens Information and Communication Networks, Inc.**, Boca Raton, Fla.

[21] Appl. No.: **09/052,812**

[22] Filed: **Mar. 31, 1998**

[51] **Int. Cl.**[7] **H04J 3/24**; H04L 9/00

[52] **U.S. Cl.** **713/201**; 370/94.1

[58] **Field of Search** 713/201, 200; 370/235

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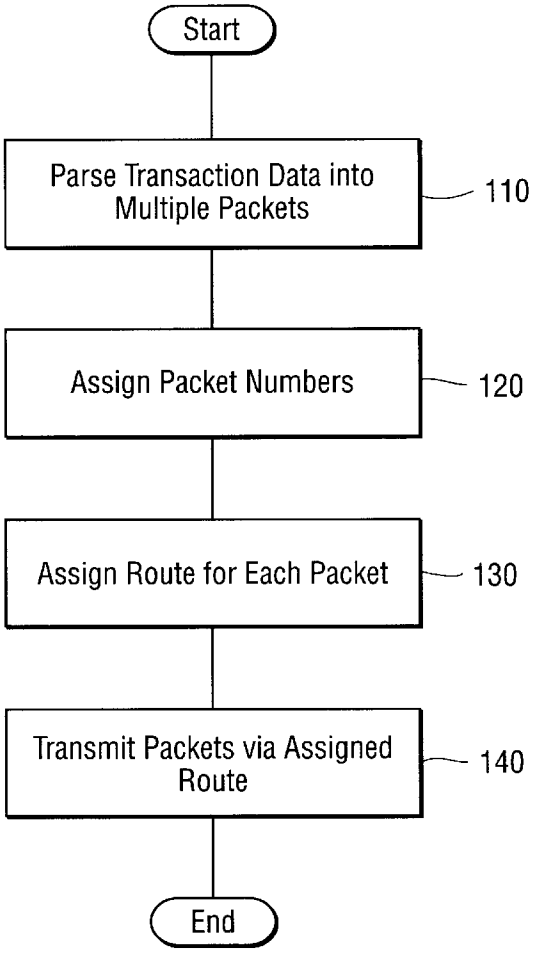
Primary Examiner—Ly V. Hua

[57] **ABSTRACT**

Transactions sent from a source node to a destination node interconnected by a distributed network are protected from interception by a third party by passing the transaction data into several packets which are renumbered as a pseudo-random sequence and sent along different routes from the source node to the destination node.

10 Claims, 6 Drawing Sheets



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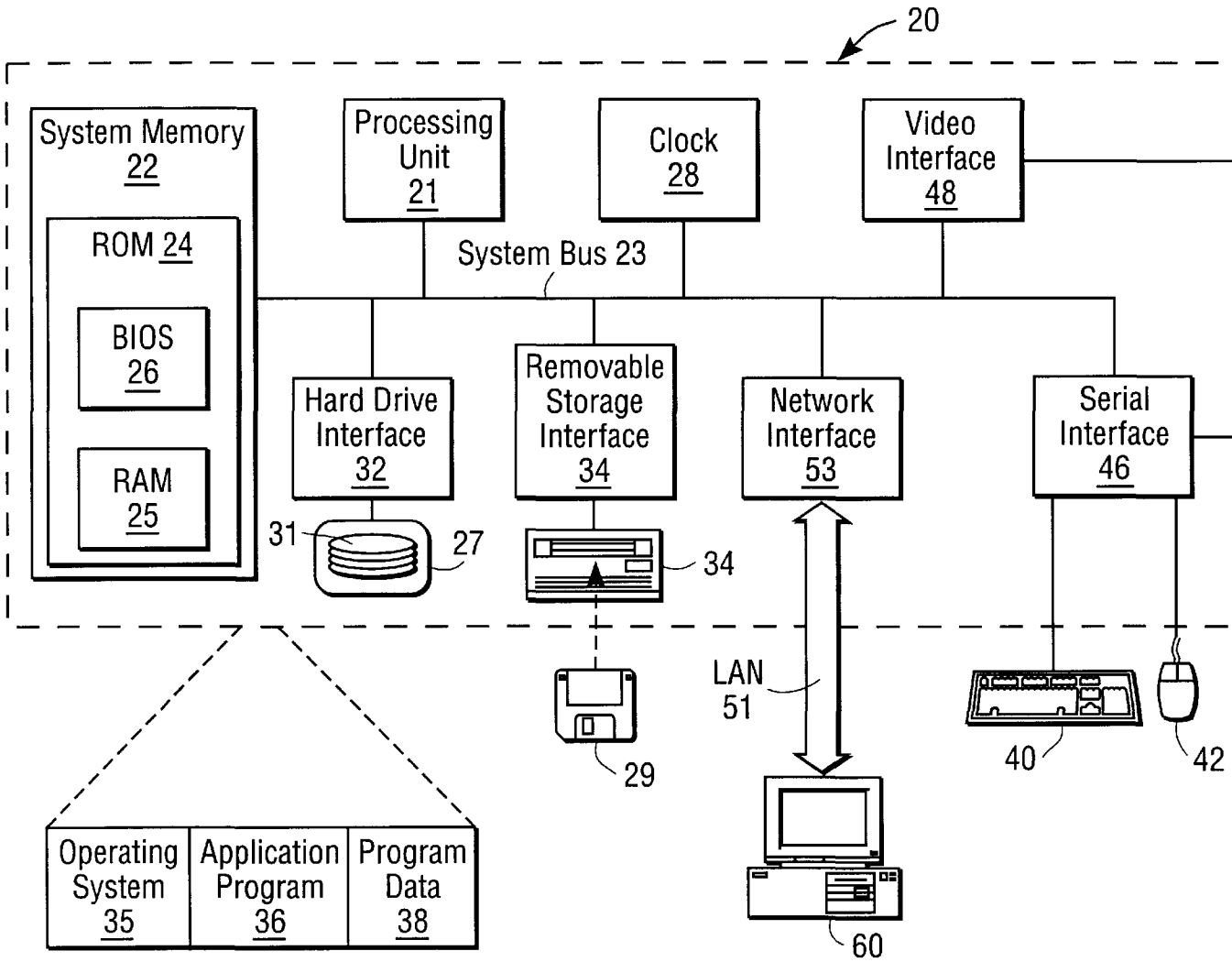

FIG. 1A

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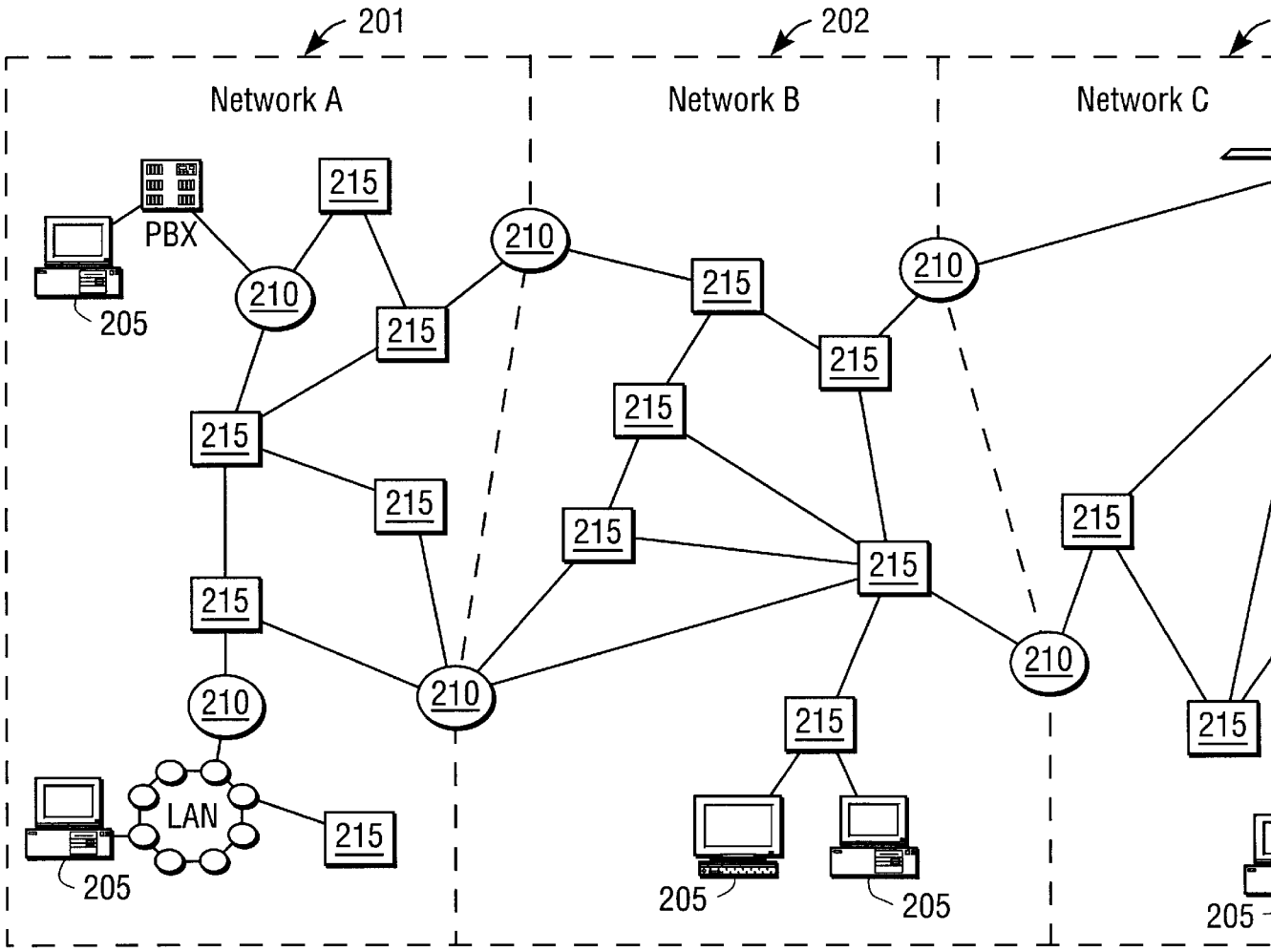

FIG. 1B

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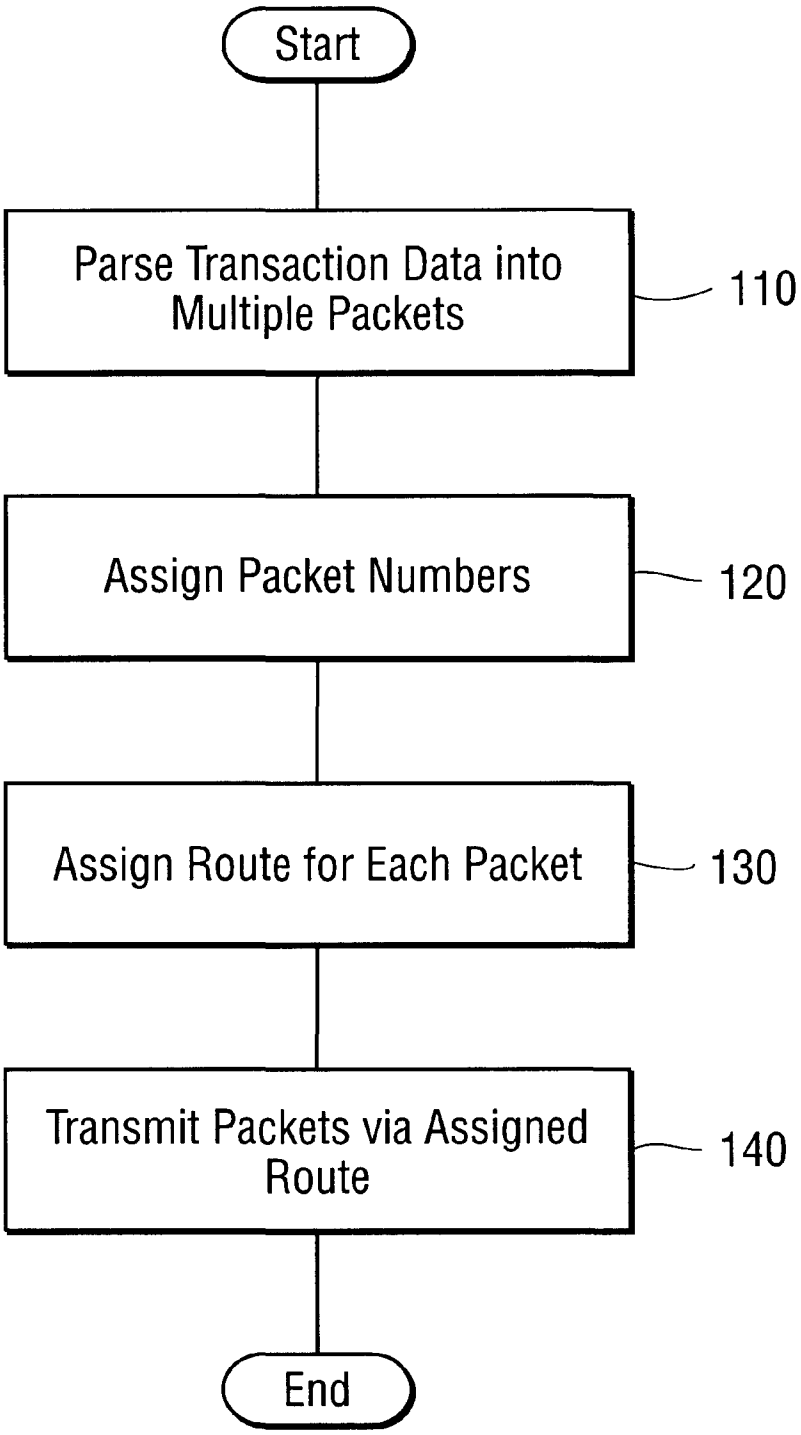

FIG. 2

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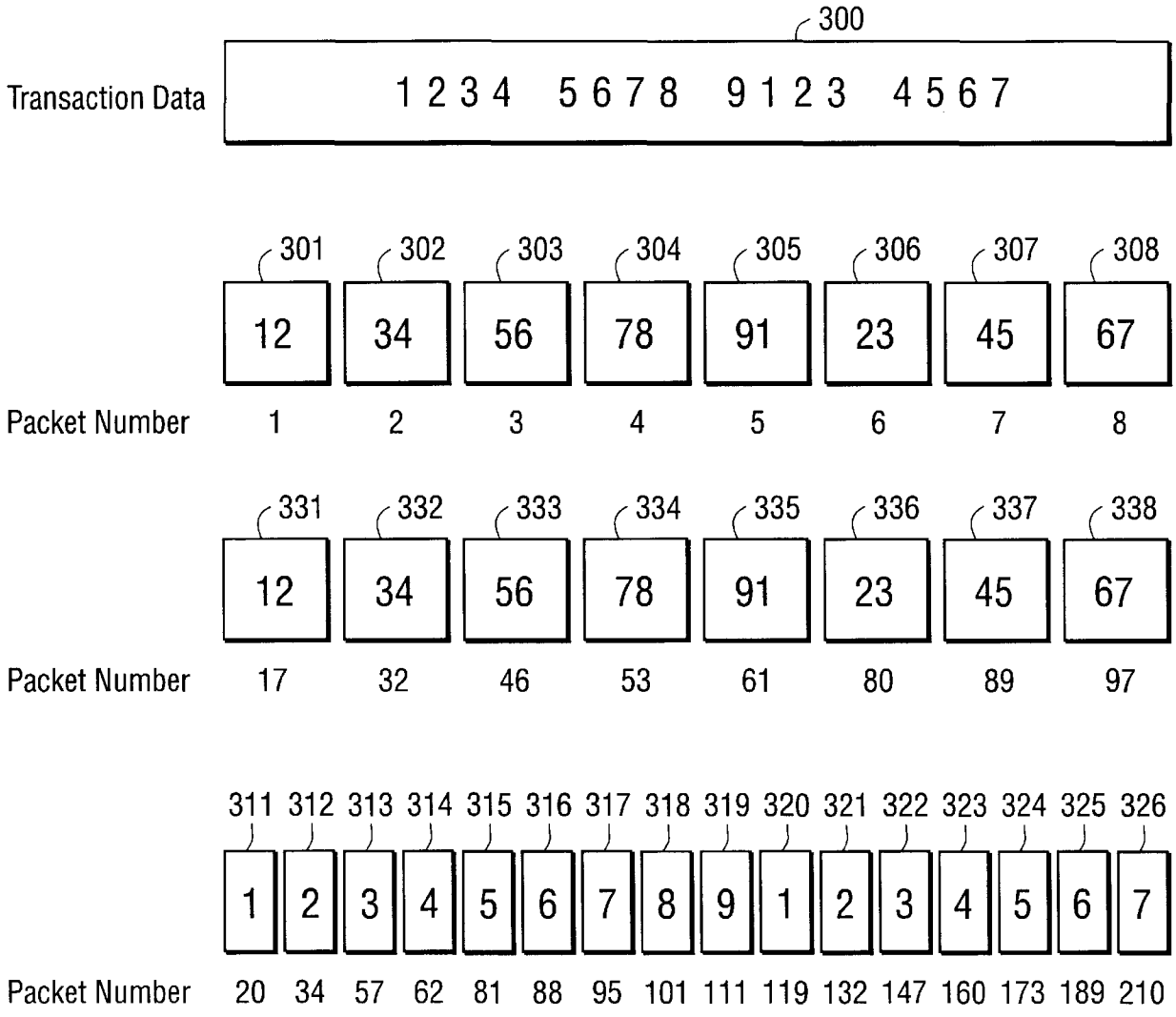

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