

**(12) United States Patent**  
**Kalmanek, Jr. et al.**

**(10) Patent No.: US 6,324,279 B1**  
**(45) Date of Patent: Nov. 27, 2001**

(54) **METHOD FOR EXCHANGING SIGNALING MESSAGES IN TWO PHASES**

(56) **References Cited**  
**PUBLICATIONS**

(75) Inventors: **Charles Robert Kalmanek, Jr.**, Short Hills; **William Todd Marshall**, Chatham; **Partho Pratim Mishra**, Summit; **Douglas M Nortz**, Red Bank; **Kadangode K. Ramakrishnan**, Berkeley Heights, all of NJ (US)

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(73) Assignee: **AT&T Corp.**, New York, NY (US)

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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 0 days.

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(21) Appl. No.: **09/366,676**

\* cited by examiner

(22) Filed: **Aug. 4, 1999**

*Primary Examiner*—Harry S. Hong

**Related U.S. Application Data**

(57) **ABSTRACT**

(60) Provisional application No. 60/104,878, filed on Oct. 20, 1998, and provisional application No. 60/095,288, filed on Aug. 4, 1998.

Signaling messages are exchanged for a call between a calling party to a called party. A setup message for the call is exchanged through at least one gate controller. Network resources are reserved for the call based on the exchanged setup messages. An end-to-end message for the call is exchanged without the end-to-end message being routed through the at least one gate controller.

(51) **Int. Cl.<sup>7</sup>** ..... **H04M 7/00; H04M 3/42; H04L 12/56; H04L 12/58**

(52) **U.S. Cl.** ..... **379/229; 370/389; 370/401; 379/207; 379/230**

(58) **Field of Search** ..... **370/389, 392, 370/400, 401; 379/201, 202, 203, 204, 205, 206, 207, 211, 212, 215, 229, 230**

**60 Claims, 28 Drawing Sheets**

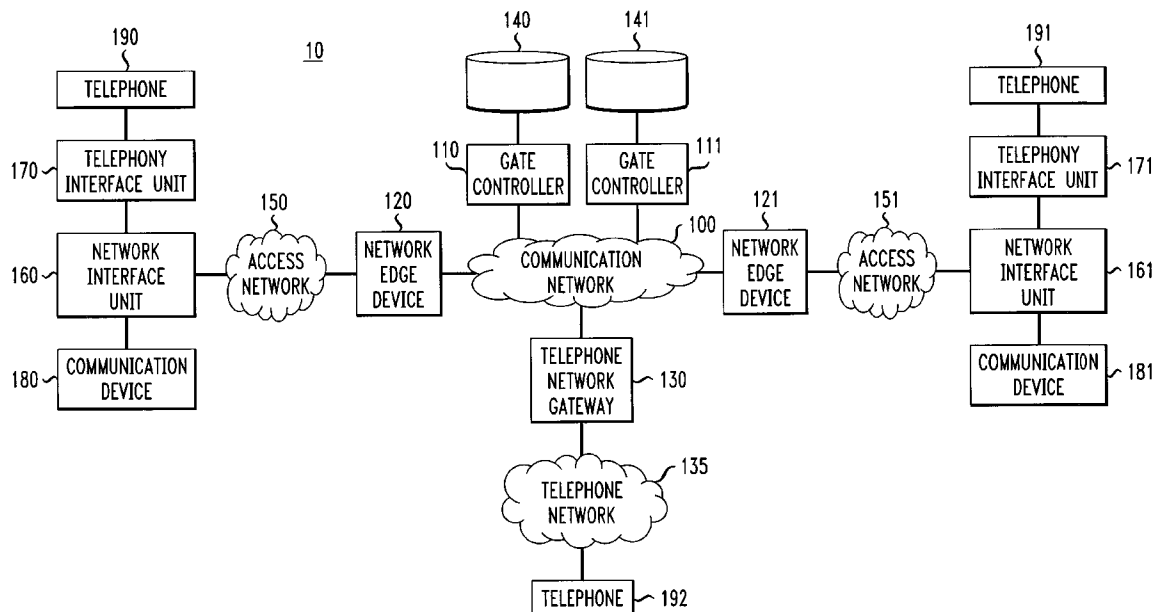


FIG. 1

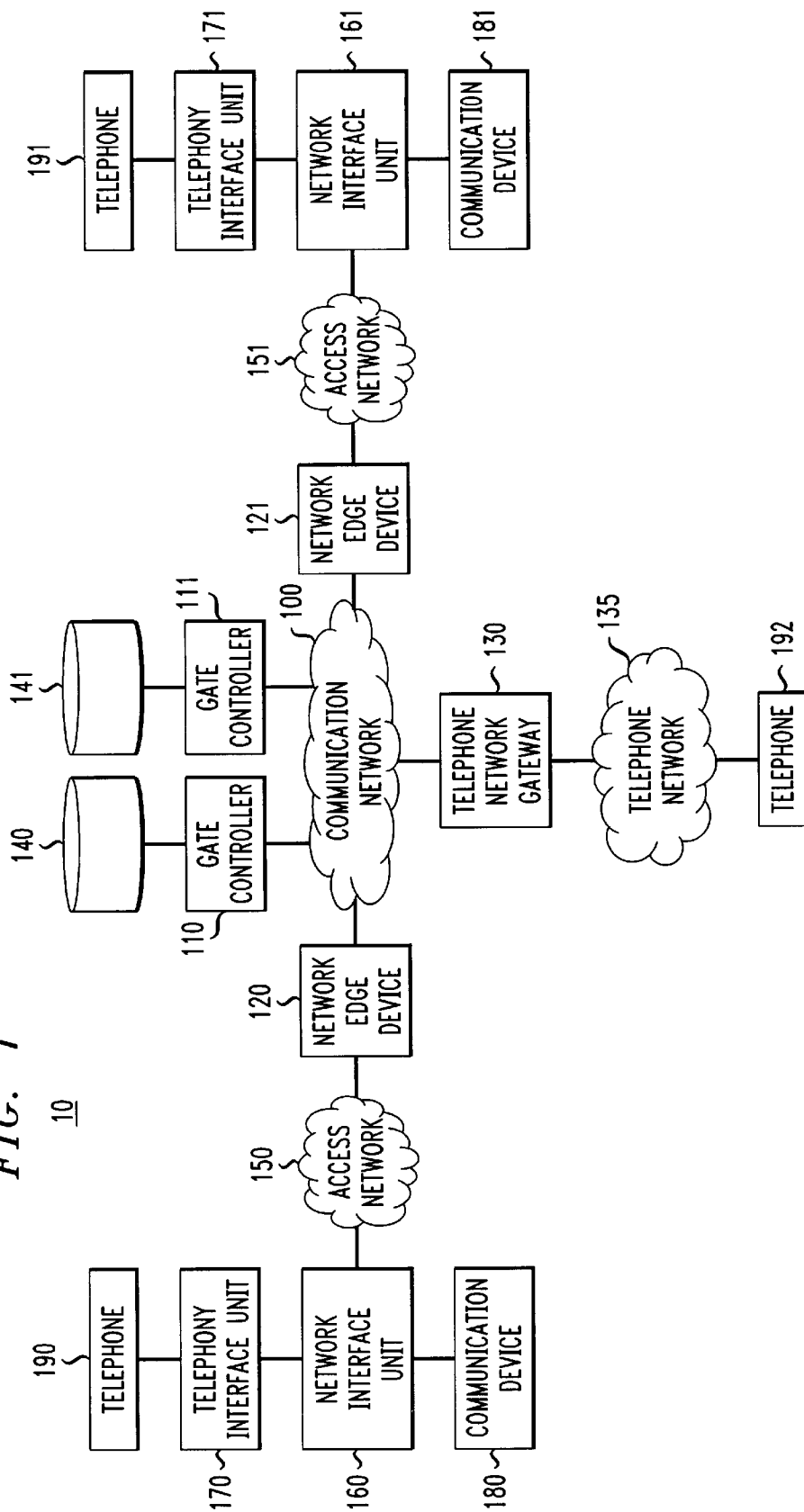


FIG. 2

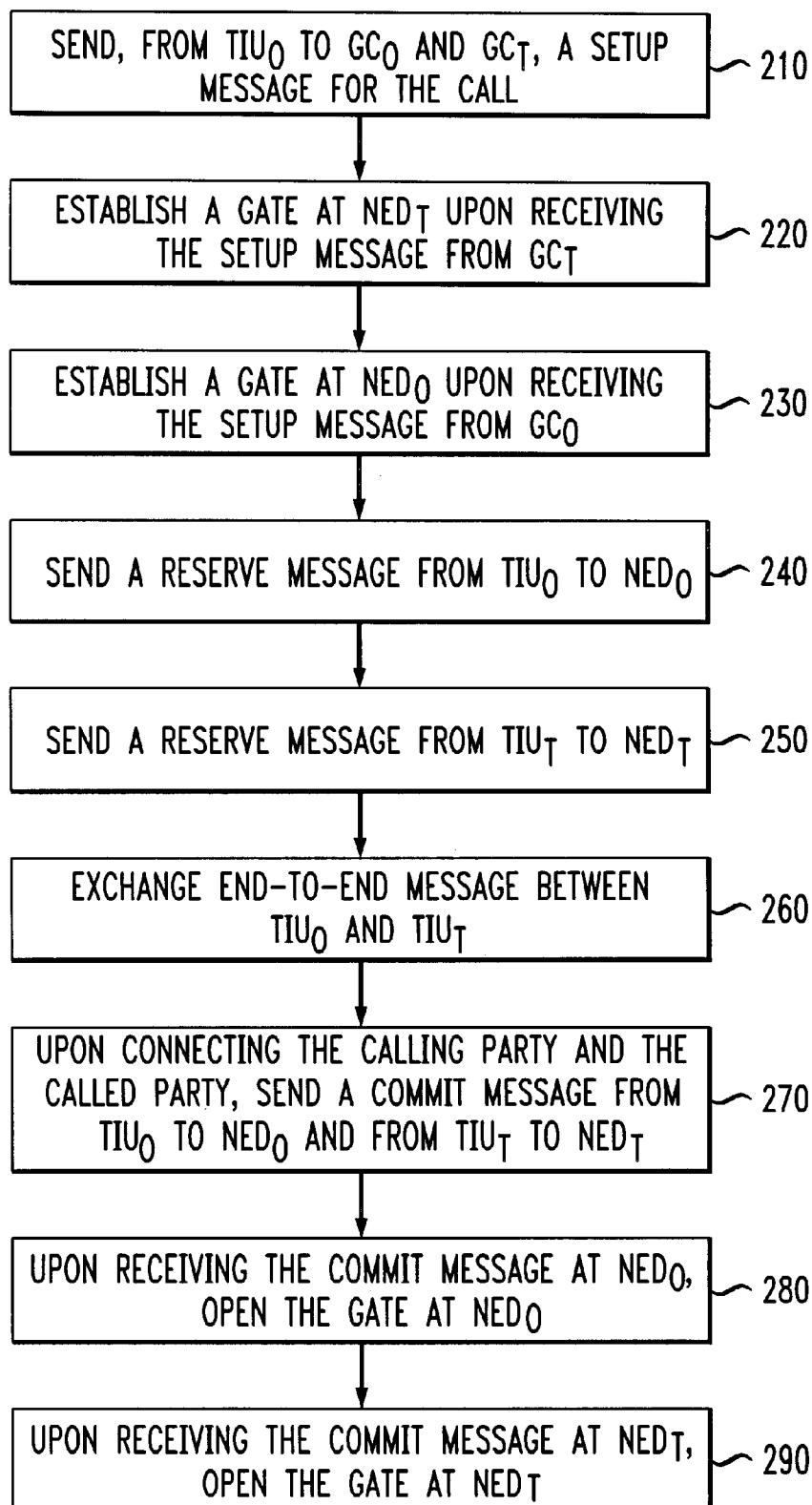


FIG. 3

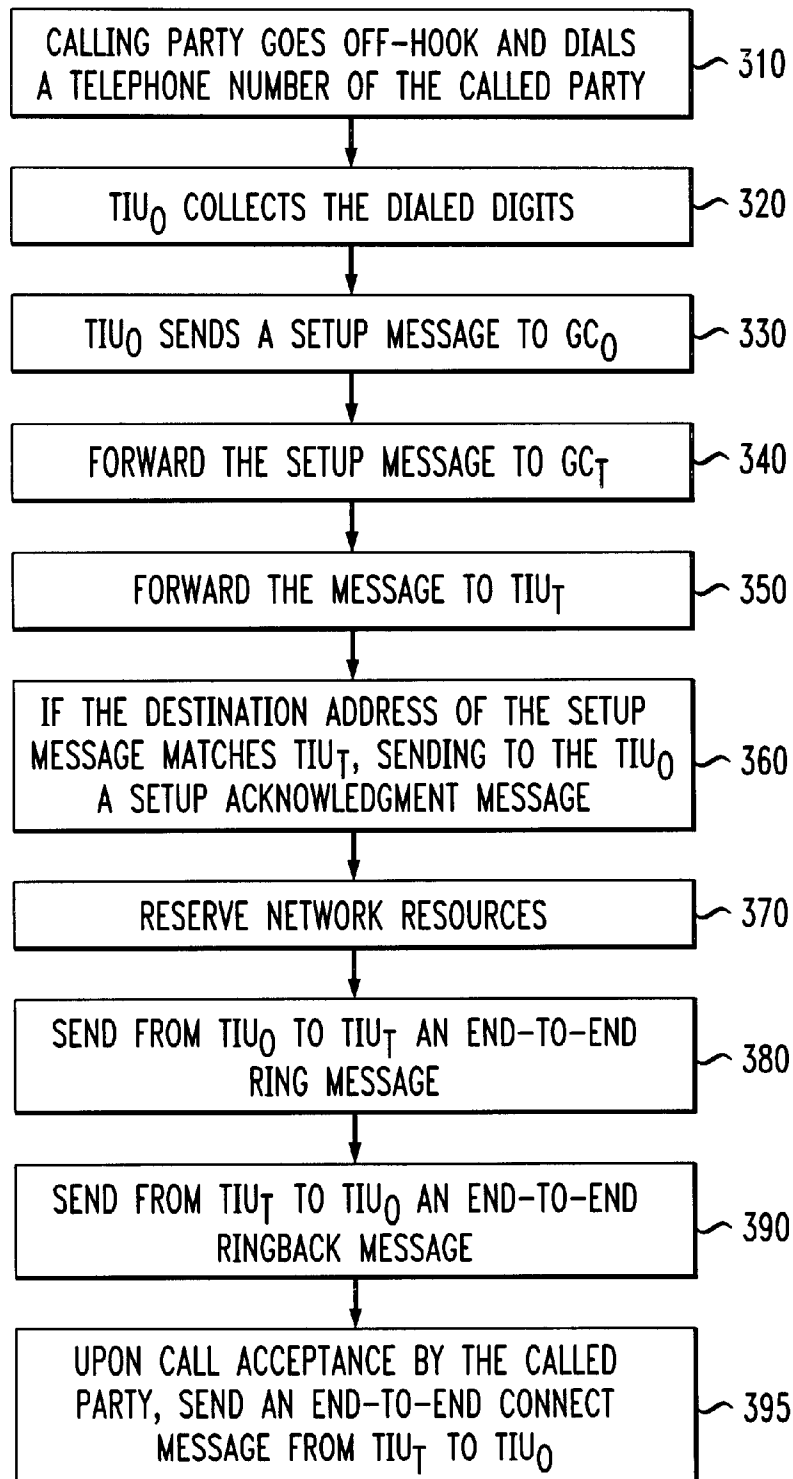
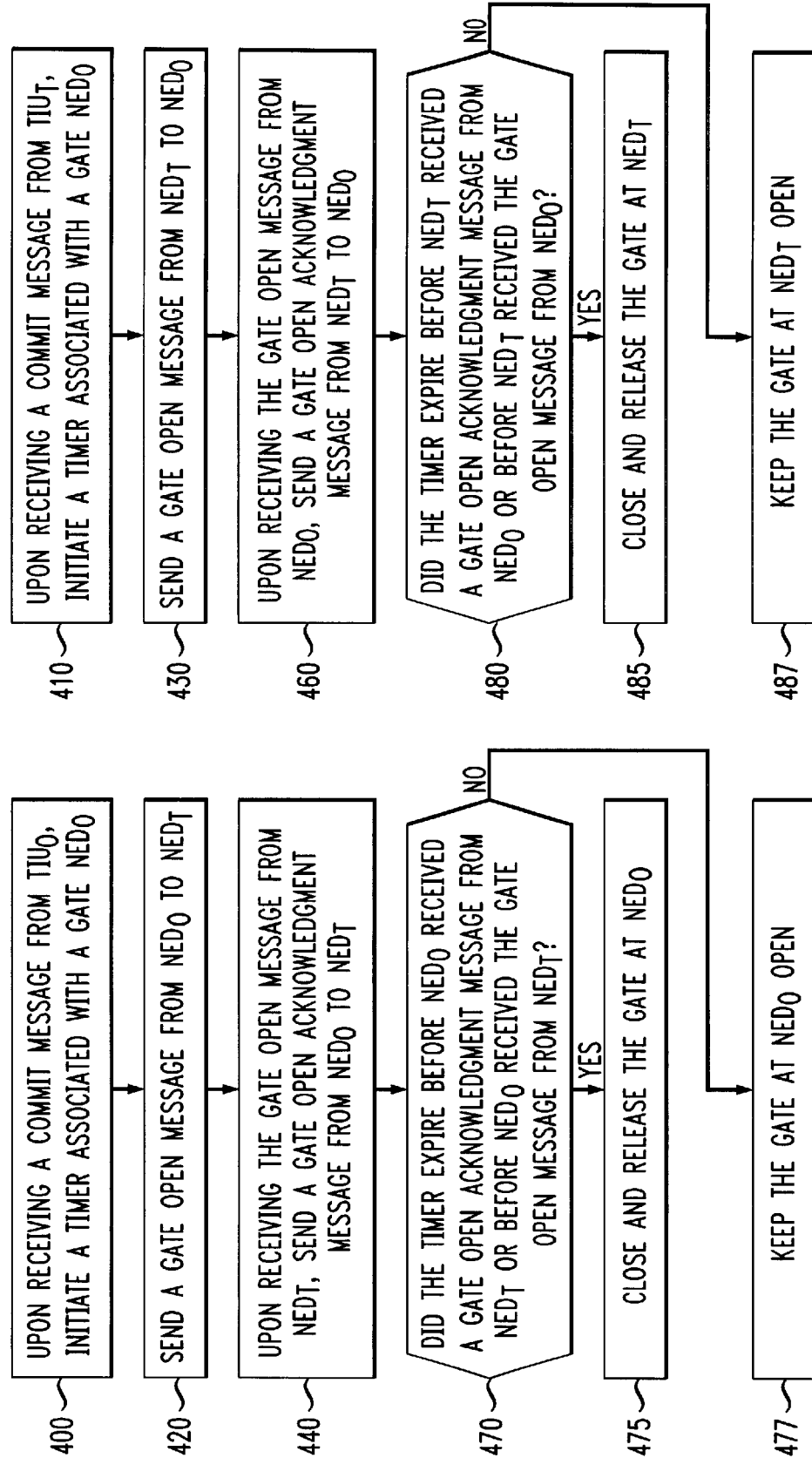


FIG. 4



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