

#### US005623532A

# United States Patent [19]

Houde et al.

## [11] Patent Number:

5,623,532

[45] Date of Patent:

Apr. 22, 1997

### [54] HARDWARE AND DATA REDUNDANT ARCHITECTURE FOR NODES IN A COMMUNICATIONS SYSTEM

[75] Inventors: Michel Houde, St. Laurent; Luc

Mayrand, Pierrefouds, both of Canada

[73] Assignee: Telefonaktiebolaget LM Ericsson,

Stockholm, Sweden

[21] Appl. No.: 372,074

[22] Filed: Jan. 12, 1995

[51] **Int. Cl.**<sup>6</sup> ...... **H04Q 7/24**; H04Q 7/34

439, 200.05, 200.15; 364/228.3

### [56] References Cited

#### U.S. PATENT DOCUMENTS

5,278,890	1/1994	Beeson, Jr. et al	. 379/57
5,289,179	2/1994	Beeson, Jr. et al	340/826
5,406,504	4/1995	Denisco et al	364/580
5,526,507	6/1996	Hill	395/441
5,555,430	9/1996	Gephardt et al	395/800

### FOREIGN PATENT DOCUMENTS

WO93/25051 12/1993 Sweden . WO94/23506 10/1994 Sweden .

### OTHER PUBLICATIONS

Satyanarayanan, Accessing information on demand at any location mobile information access, IEEE. Feb. 1996.

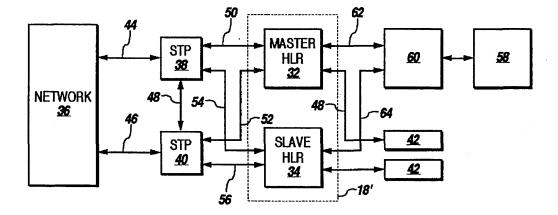
Primary Examiner—Dwayne D. Bost Assistant Examiner—Nay Aung Mavng

Attorney, Agent, or Firm-Jenkins & Gilchrist, P.C.

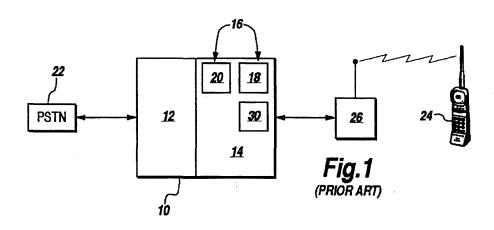
57] ABSTRACT

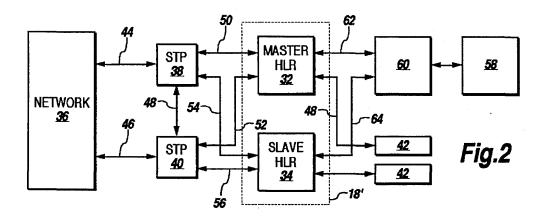
A mobile switching center including multiple home location register platforms presented in varying configurations and connected to a network through a set of signal transfer points. In a master/slave configuration, a master platform is given primary responsibility for handling network service request messages, and dynamic data affecting messages are copied to a slave platform in order to maintain data integrity therein in the event the master fails and the slave must take over for the master. In a load sharing configuration, each platform is given primary responsibility for handling network service request messages of its "own" subscribers, and dynamic data affecting messages are copied between the platforms in order to maintain data integrity therein in the event one of the platforms fails and the remaining functional platforms must take over for the failed platform in addition to serving its own subscribers. The signal transfer points function to automatically and transparently route service requests to the platforms for handling in accordance with the configurations and platform operating status. The disclosed platform configurations are applicable to data base systems in particular and, in general, to any node of a data communications system.

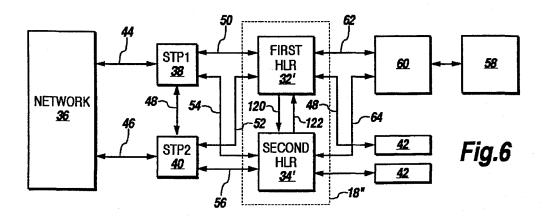
## 40 Claims, 5 Drawing Sheets

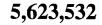


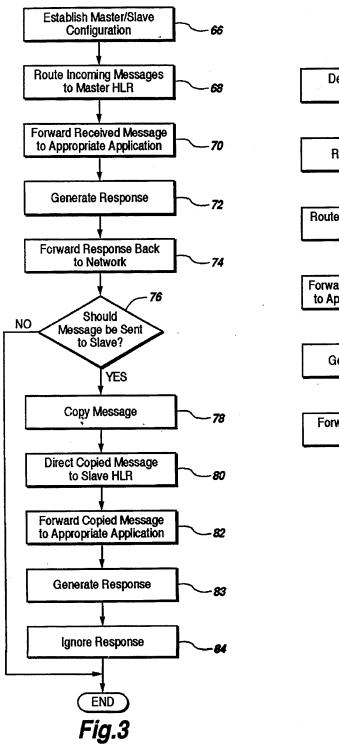




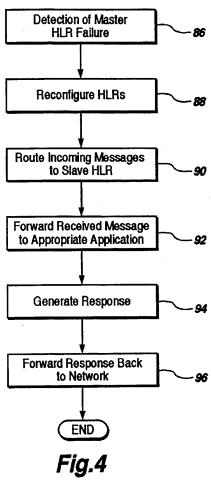


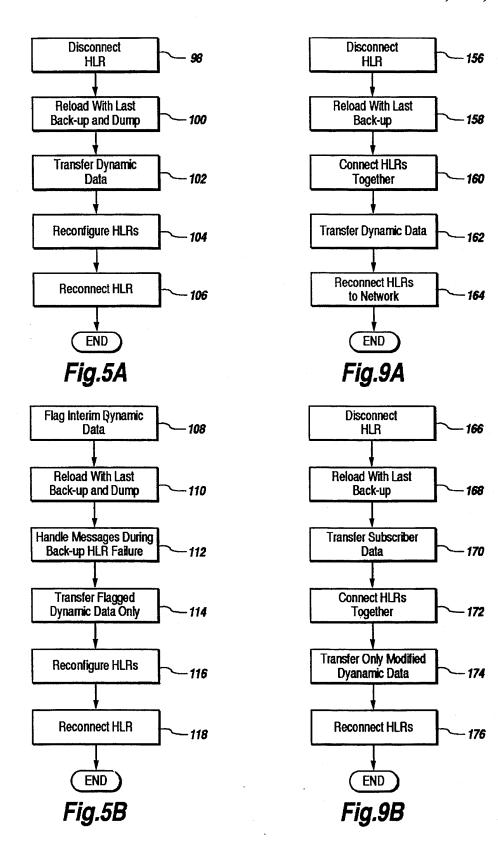


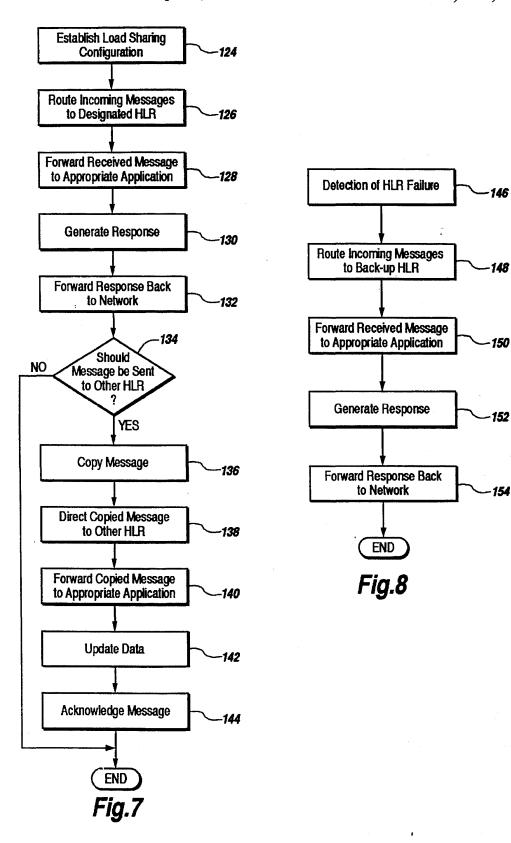




Apr. 22, 1997







# DOCKET A L A R M

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

# **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

# **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

# API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

# **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

