

United States Patent [19]

Cameron et al.

Patent Number:

5,754,946

Date of Patent:

May 19, 1998

[54]	NATIONWIDE	COMMUNICATION SYSTEM
------	-------------------	----------------------

[75] Inventors: Dennis Wayne Cameron, Jackson,

Miss.; Walter Charles Roehr, Reston, Va.; Rade Petrovic, Oxford, Miss.; Jai P. Bhagat, Jackson, Miss.; Masood Garahi, Madison, Miss.; William D. Hays, Jackson, Miss.; David W.

Ackerman, Washington, D.C.

[73] Assignee: Mobile Telecommunication

Technologies, Jackson, Miss.

[21] Appl. No.: 124,219

[22] Filed: Sep. 21, 1993

Related U.S. Application Data

Continuation-in-part of Ser. No. 973,918, Nov. 12, 1992, [63] Pat. No. 5,590,403.

Int. Cl.⁶ H04B 7/00

U.S. Cl. 455/38.1; 455/517; 455/67.7; 340/825.44

Field of Search 455/33.1, 54.1. 455/54.2, 56.1, 69, 88, 422, 423, 424, 425, 517, 524, 32.1, 38.1, 38.4, 67.1, 67.7; 370/95.3.

235, 236, 252, 522; 340/825.44, 311.1

References Cited [56]

4,697,281 9/1987 O'Sullivan 455/33.1

U.S. PATENT DOCUMENTS

4,803,487	2/1989	Willard et al	340/825.44
		Davis	

FOREIGN PATENT DOCUMENTS

3/1989 Japan 455/69 82715 7/1989 Japan 455/69 181241

OTHER PUBLICATIONS

"Telecommunications Protocols and Design" by Spragins et al Feb. 1991

Primary Examiner-Reinhard J. Eisenzopf Assistant Examiner-Thanh Le

Attorney, Agent, or Firm-Finnegan, Henderson, Farabow,

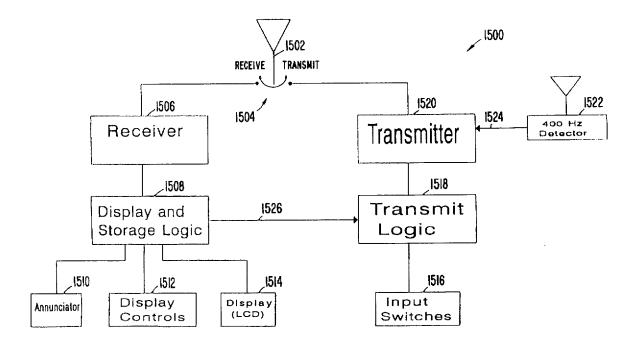
Garrett & Dunner, L.L.P.

ABSTRACT [57]

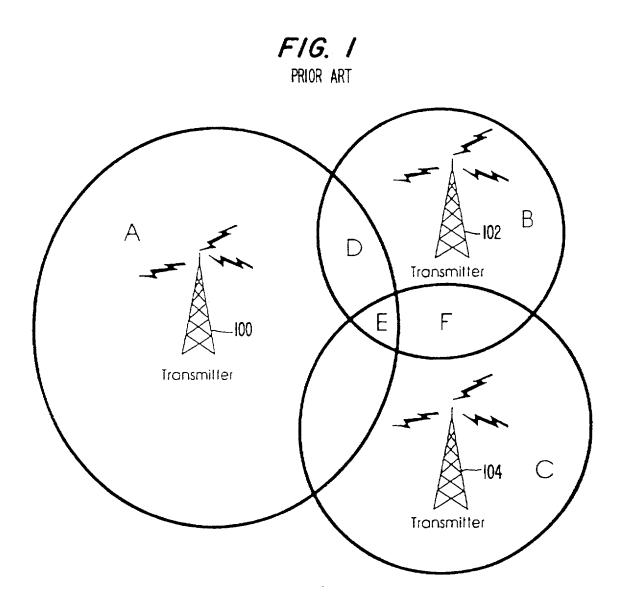
A two-way communication system for communication between a system network and a mobile unit. The system network includes a plurality of base transmitters and base receivers included in the network. The base transmitters are divided into zonal assignments and broadcast in simulcast using multi-carrier modulation techniques. The system network controls the base transmitters to broadcast in simulcast during both systemwide and zonal time intervals. The system network dynamically alters zone boundaries to maximize information throughput. The system also uses a mobile unit which receives messages from the network and transmits messages to the network. The mobile unit includes a switch that allows a user to request the network to retransmit a received message that contains errors.

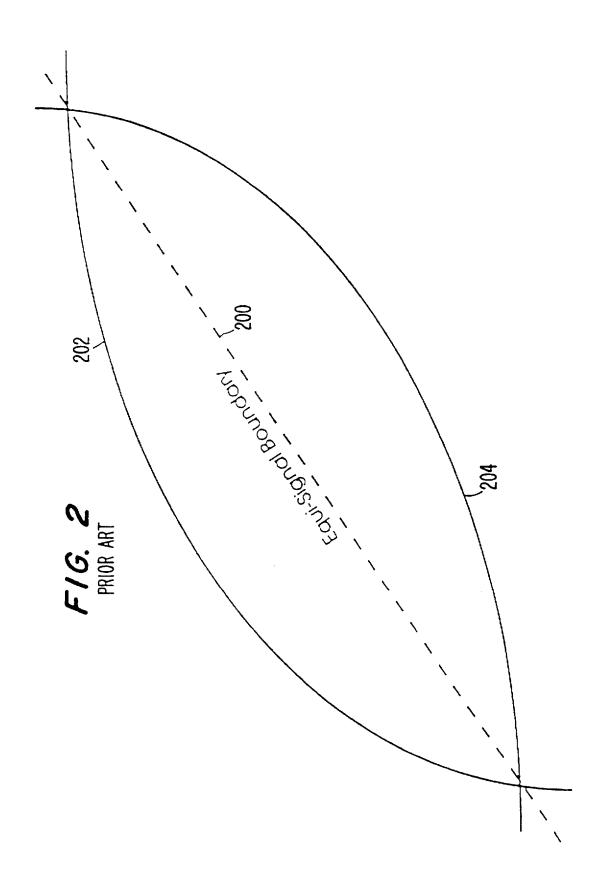
9 Claims, 30 Drawing Sheets

Mobile Transceiver

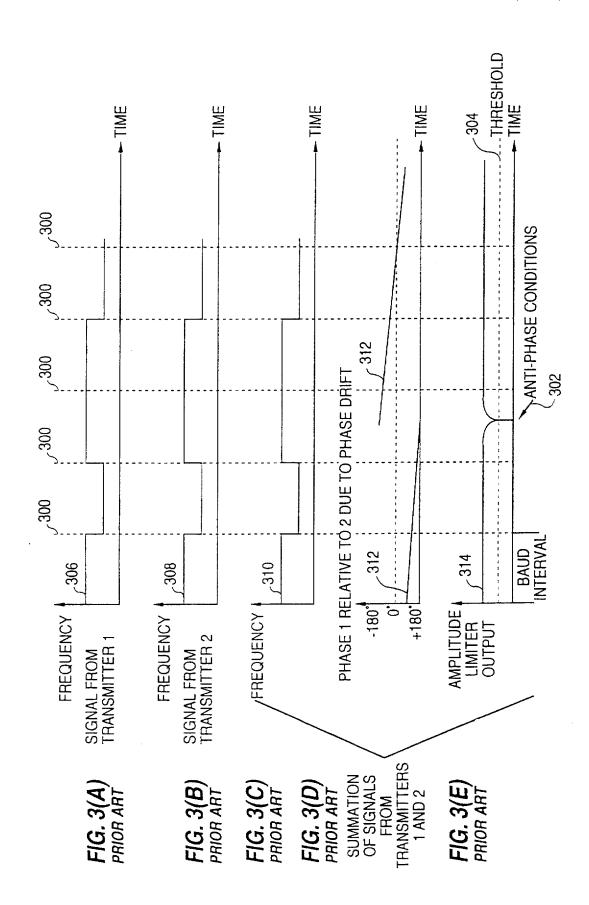




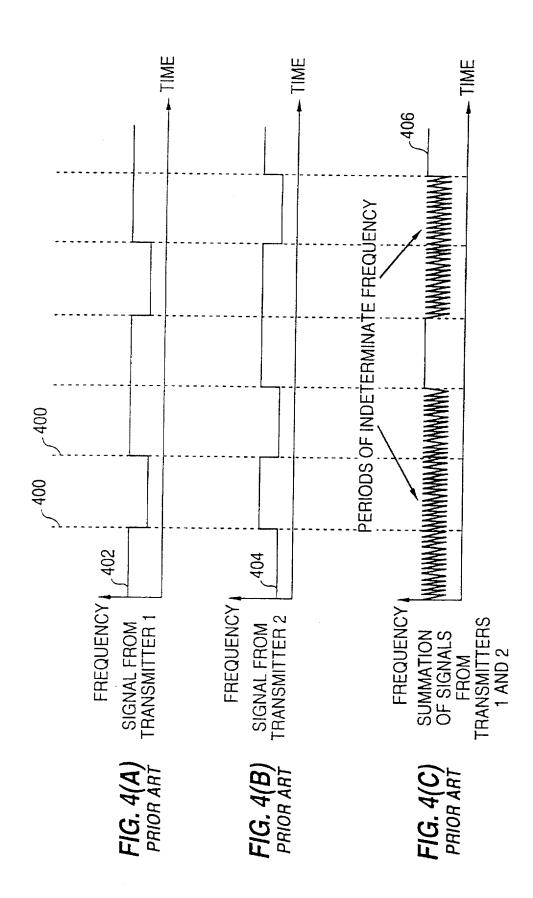














DOCKET A L A R M

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.

