

US005903614A

United States Patent [19]

Suzuki et al.

[11] Patent Number: 5,903,614

[45] **Date of Patent:** May 11, 1999

[54]	COMMUNICATION METHOD AND RECEIVING APPARATUS		
[75]	Inventors: Mitsuhiro Suzuki, Chiba; Kazuyuki Sakoda, Tokyo, both of Japan		
[73]	Assignee: Sony Corporation, Tokyo, Japan		
[21]	Appl. No.: 08/998,386		
[22]	Filed: Dec. 24, 1997		
[30]	Foreign Application Priority Data		
Dec.	26, 1996 [JP] Japan 8-384803		
[51]	Int. Cl. ⁶ H03D 1/00		
[52]	U.S. Cl. 375/340 ; 375/295; 375/308;		
	370/208; 370/210; 370/335		
[58]	Field of Search 342/50, 88, 102,		
	342/357; 370/508, 515, 522; 375/200, 202,		
	208, 210, 340, 342–343		
[56]	References Cited		
	U.S. PATENT DOCUMENTS		

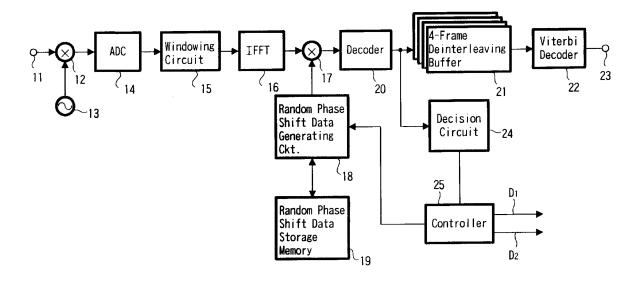
4,041,391	8/1977	Deerkoski
4,481,640	11/1984	Chow et al 375/200
5,541,552	7/1996	Suzuki et al
5,677,927	10/1997	Fullerton et al 375/200
5,694,415	12/1997	Suzuki et al

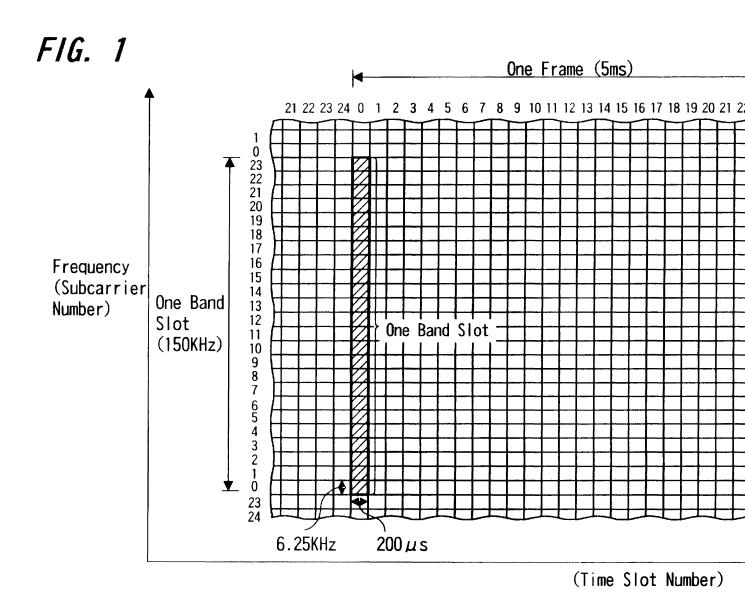
Primary Examiner—Stephen Chin Assistant Examiner—Joseph Roundtree Attorney, Agent, or Firm—Jay H. Maioli

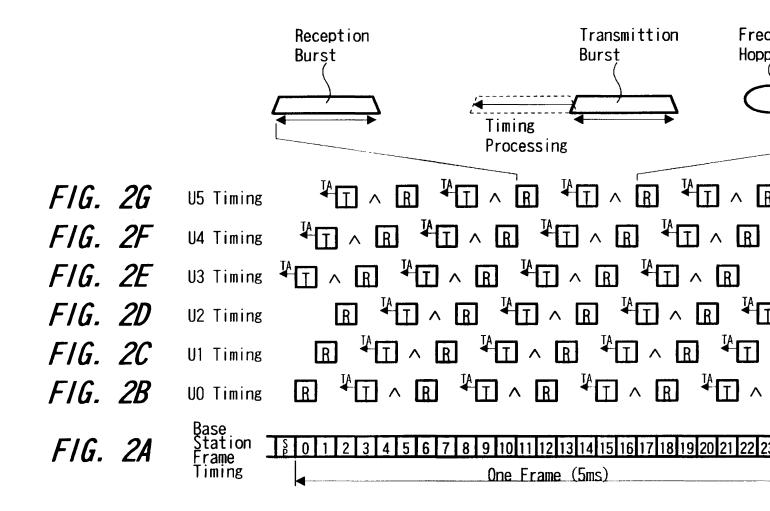
[57] ABSTRACT

A reception method of a multicarrier system is one in which a phase-modulated data is transmitted by using each of a plurality of subcarriers, and includes a random data generating step of generating a phase shift data randomly changed, a multiplying step for multiplying each of the received subcarriers with an output obtained in the random data generating step, and a state detection signal generating step for monitoring a state of an output obtained in the multiplying step and for generating a predetermined state detection signal when a predetermined state is detected.

8 Claims, 10 Drawing Sheets









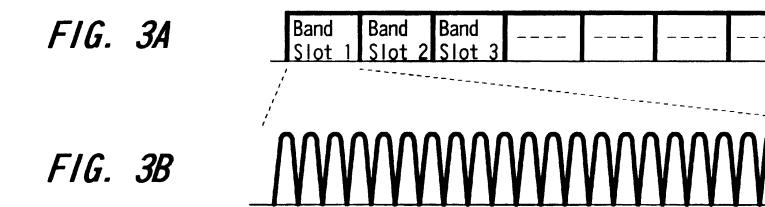
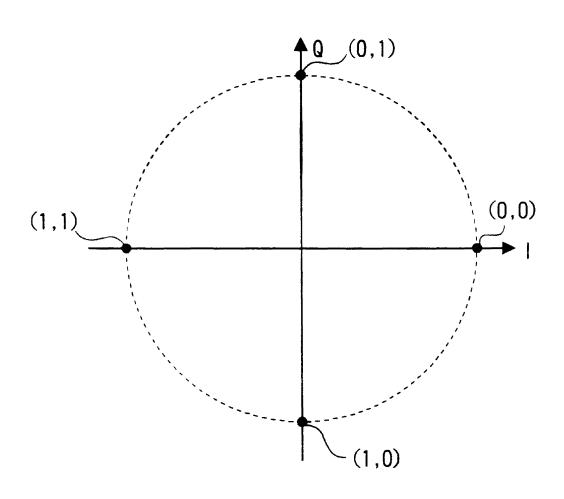


FIG. 4
(PRIOR ART)



DOCKET

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.

