## 

US005161252A

## United States Patent [19]

### Higuchi et al.

[11] Patent Number: 5,161,252

[45] Date of Patent:

Nov. 3, 1992

0167133	9/1984	Japan 455/133
59-178830	10/1984	Japan .
1000606	8/1965	United Kingdom

#### OTHER PUBLICATIONS

I. Yashima et al., "Development of the TV Receiver for Cars", IEEE Transactions on Consumer Electronics, vol. CE-28, No. 3, Aug. 1982, New York, pp. 437-445. K. Suwa et al., "Diversity Improvement of Voice Signal Transmission Using Postdetection Selection Combining in Land Mobile Radio", IEEE Transactions on Vehicular Technology, vol. VT-33, No. 3, Aug. 1984, New York.

Primary Examiner—Curtis Kuntz
Assistant Examiner—Christine K. Belzer
Attorney, Agent, or Firm—Cushman, Darby & Cushman

#### 57] ABSTRACT

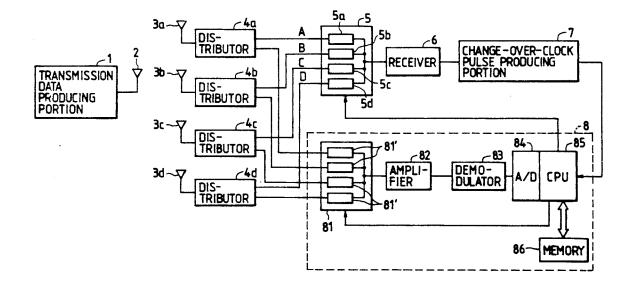
A diversity antenna communication system for mounting on and use with a mobile body. The system includes at least two receiving systems having different propagation paths from one another. During the transmission, a radio wave including receiving system change-over timing signals therein is radiated. Upon reception, the change-over timing signals are extracted to control reception.

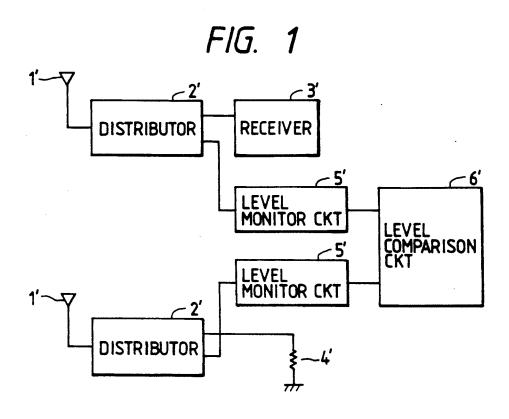
### 21 Claims, 10 Drawing Sheets

[54]	[54] DIVERSITY ANTENNA COMMUNICATION SYSTEM			
[75]	Inventors:	Harukazu Higuchi; Yoshizo Shibano, both of Osaka, Japan		
[73]	Assignee:	Sumitomo Electric Industries, Ltd., Osaka, Japan		
[21]	Appl. No.:	375,669		
[22]	Filed:	Jul. 5, 1989		
[30]	n Application Priority Data			
Jul. 6, 1988 [JP]       Japan       63-16         Aug. 10, 1988 [JP]       Japan       63-10558         Dec. 23, 1988 [JP]       Japan       63-32				
[51]	Int. Cl. <sup>5</sup>	<b>H04B 1/44; H04B</b> 17/02; <b>H04B</b> 1/06		
[52]	U.S. Cl	<b>455/78;</b> 455/134; 455/277.1		
[58]	Field of Sea	arch 455/134, 135, 140, 63, 455/277, 133, 78, 136, 100, 101		
[56] References Cited				
U.S. PATENT DOCUMENTS				
	4,035,728 7/ 4,756,023 7/	1977 Ishikawa et al		

FOREIGN PATENT DOCUMENTS

0124319 11/1984 European Pat. Off. .





Nov. 3, 1992

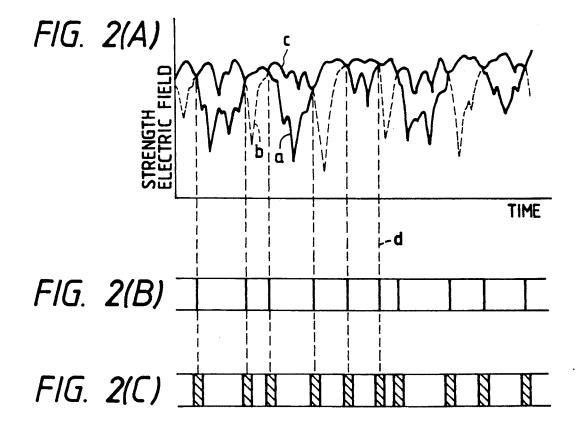




FIG. 3(A)

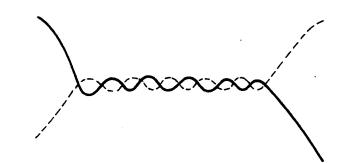
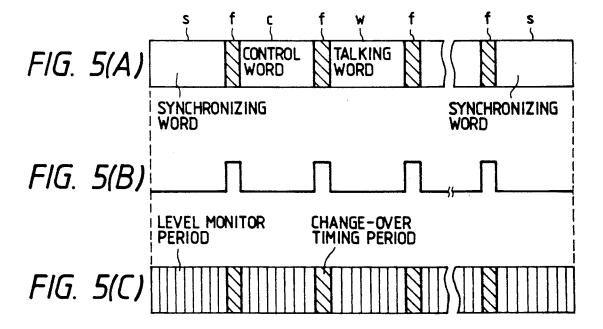


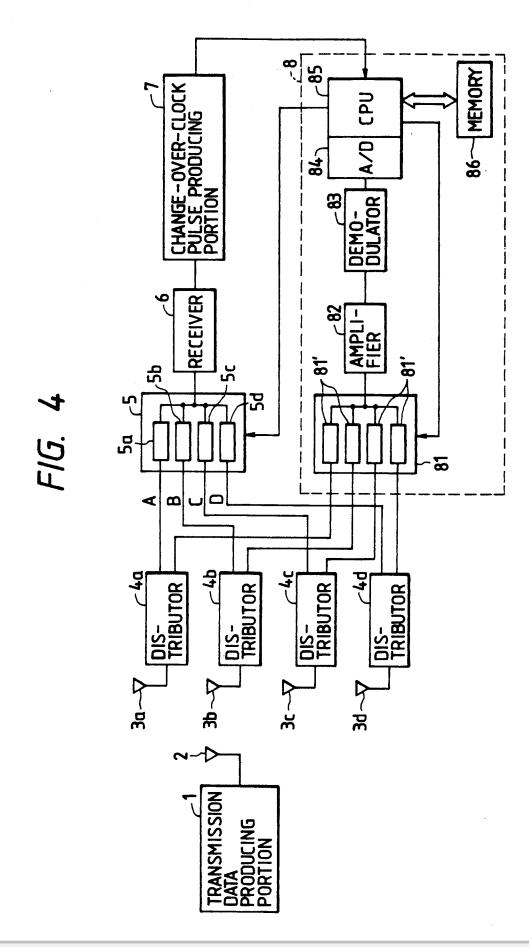
FIG. 3(B) OFF

Nov. 3, 1992

FIG. 3(C) ON OFF-

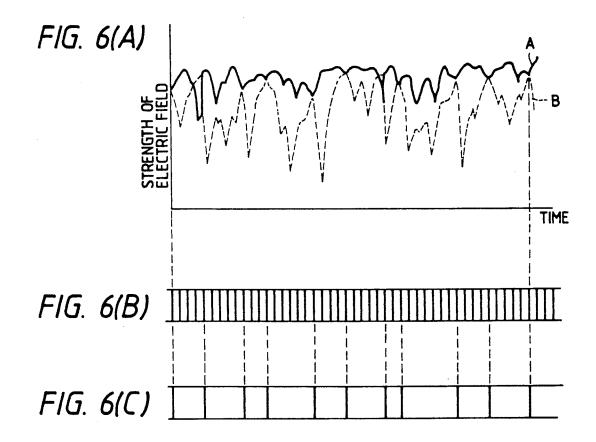


Nov. 3, 1992





Nov. 3, 1992



# 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.

