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United States Patent [19]

Higuchi et al.

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[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.

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

57] ABSTRACT

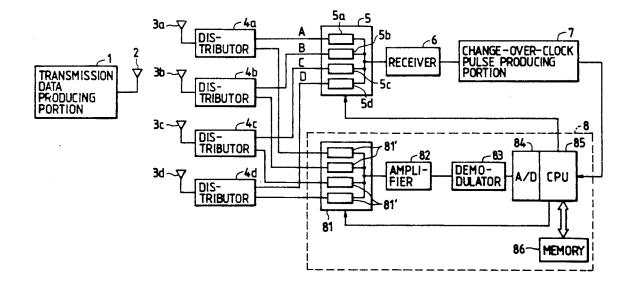
A diversity antenna communication system for mounting on and use with a mobile body. The system includes at least two receiving systems having different propagation paths from one another. During the transmission, a radio wave including receiving system change-over timing signals therein is radiated.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

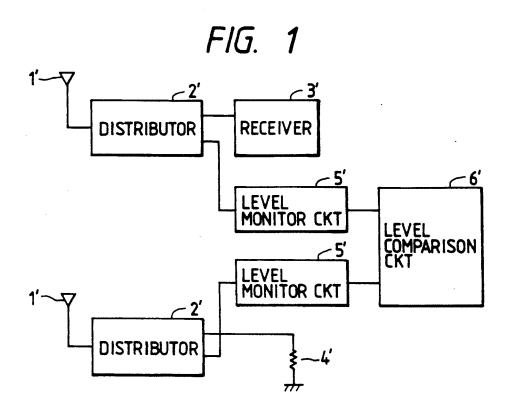
21 Claims, 10 Drawing Sheets

[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. ⁵	H04B 1/44; H04B 17/02; H04B 1/06		
[52]	U.S. Cl	455/78; 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

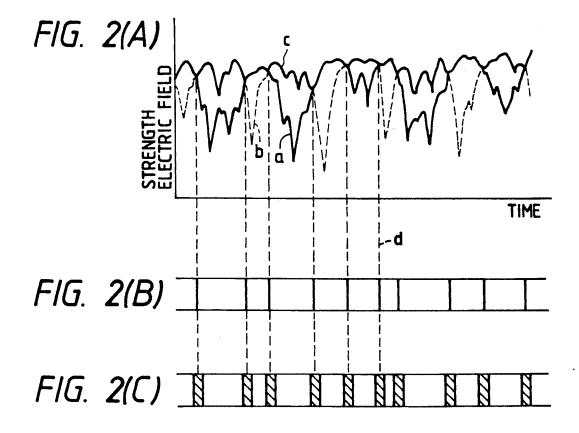




FIG. 3(A)

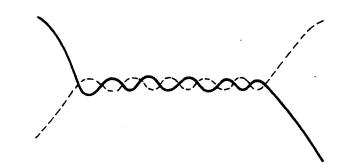
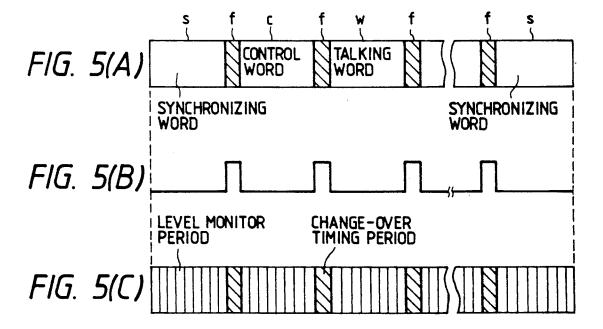


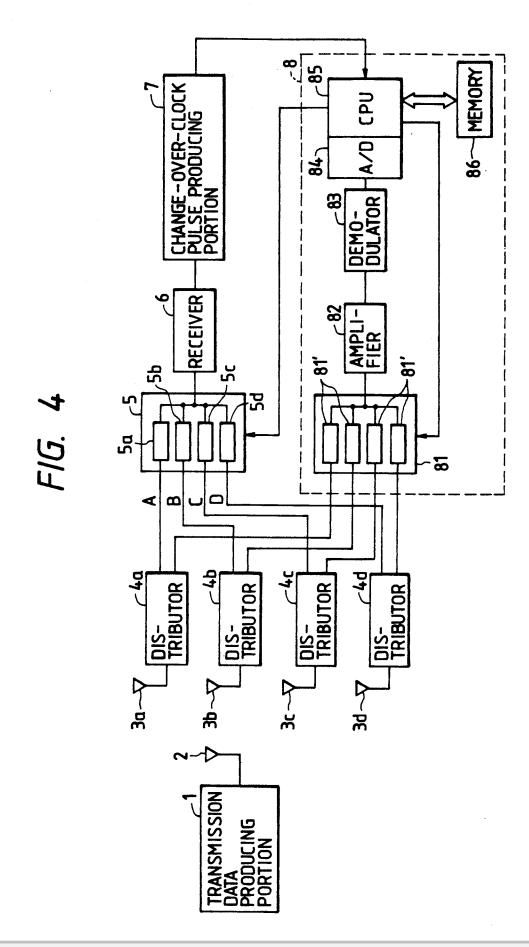
FIG. 3(B) OFF

Nov. 3, 1992

FIG. 3(C) ON OFF-

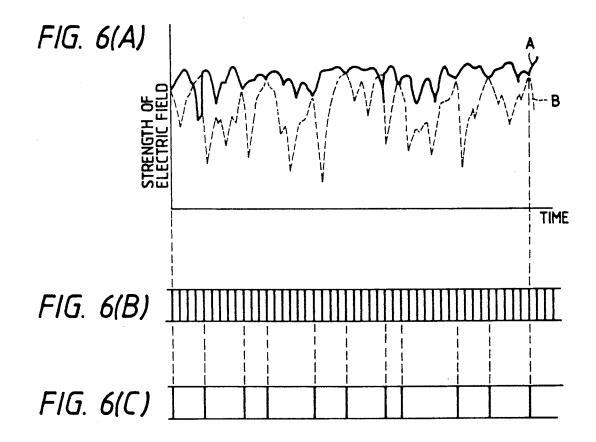


Nov. 3, 1992





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