

United States Patent [19]

Cameron et al.

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Dec. 31, 1996

[54]	METHOD AND SYSTEM FOR EFFICIENTLY
	PROVIDING TWO WAY COMMUNICATION
	BETWEEN A CENTRAL NETWORK AND
	MOBILE UNIT

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[52] U.S. Cl. 455/51.2; 455/33.4; 455/34.1; 455/56.1; 455/59; 455/101; 375/299

455/33.4, 34.1, 34.2, 51.2, 54.1, 54.2, 59, 56.1, 63, 101, 102, 103; 370/953, 77; 375/260,

267, 299

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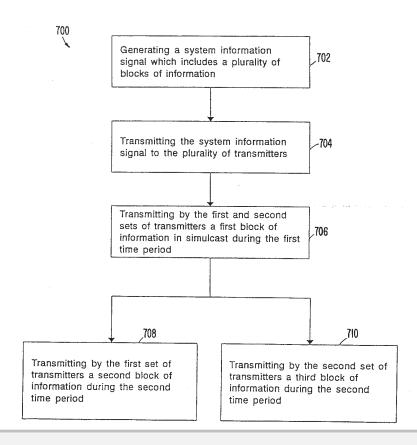
WO91/18458	11/1991	WIPO	***************************************	455/101
WO9211707	7/1992	WIPO	***************************************	455/33.1

Primary Examiner-Reinhard J. Eisenzopf Assistant Examiner-Thanh Le Attorney, Agent, or Firm-Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

ABSTRACT

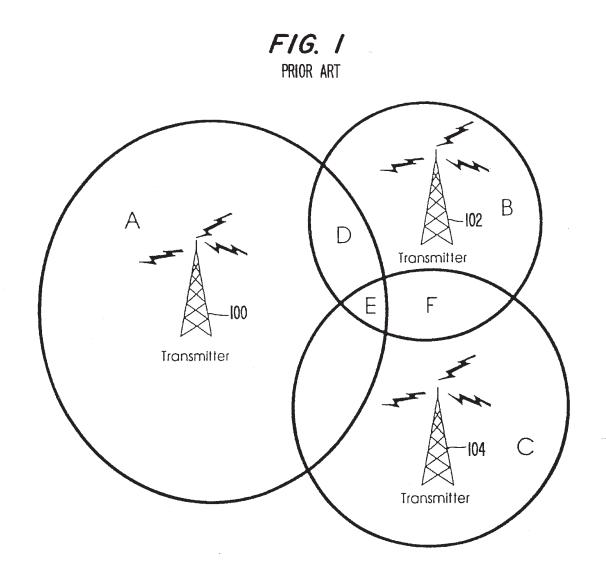
A two-way communication system for communication between a system network and a mobile unit. The system network includes a plurality of base transmitters and base receivers included in the network. The base transmitters are divided into zonal assignments and broadcast in simulcast using multi-carrier 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 preferred mobile unit includes a noise detector circuit to prevent unwanted transmissions. The system network further provides an adaptive registration feature for mobile units which controls the registration operations by the mobile units to maximize information throughput.

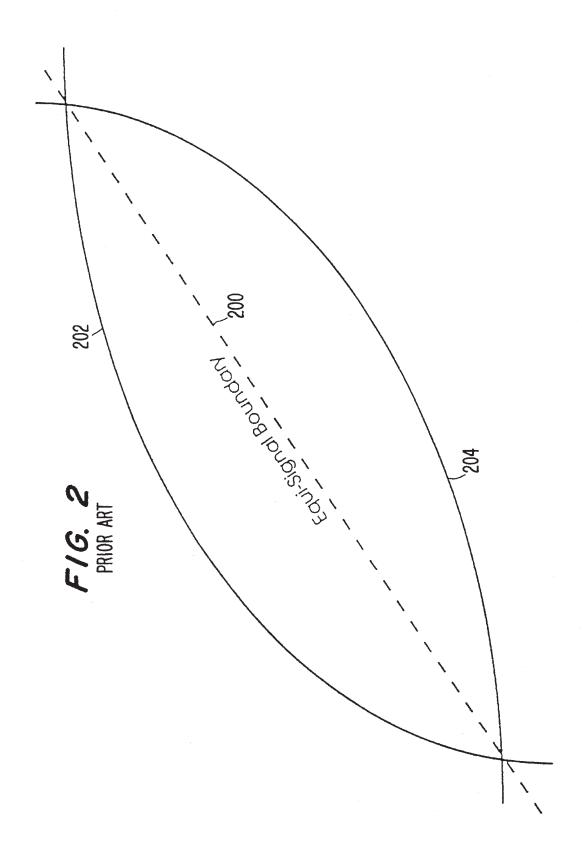
12 Claims, 30 Drawing Sheets





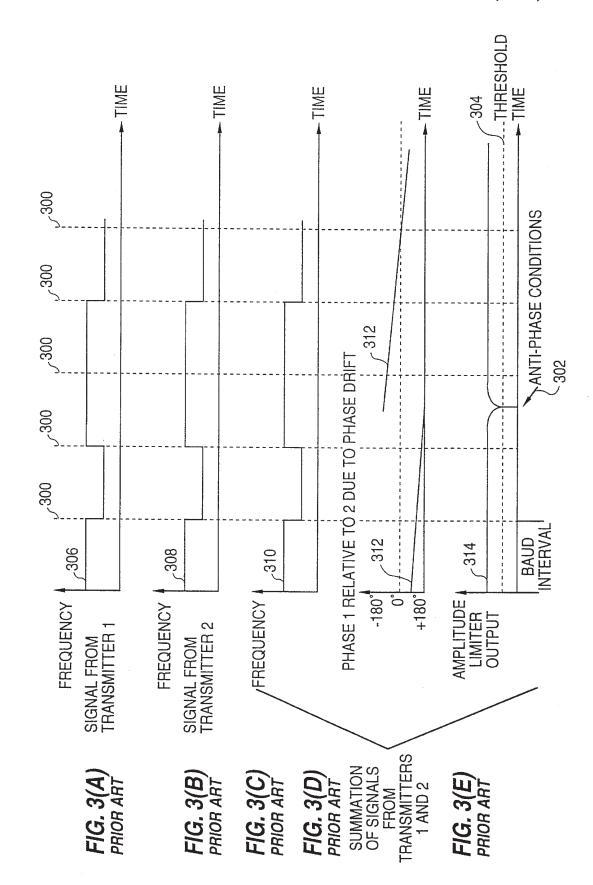
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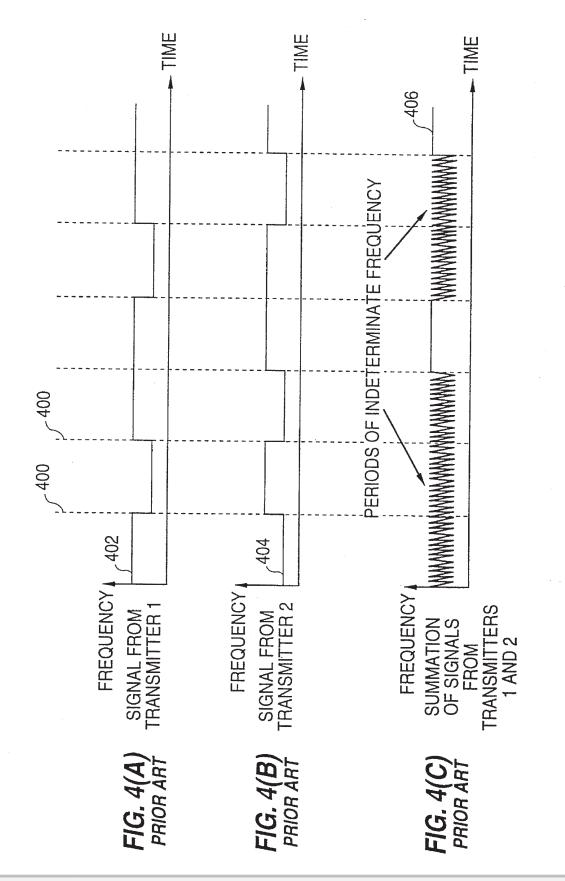


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