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United States Patent [19]

McLaughlin et al.

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54]	ITU/TDD MODEM	5,327,479	7/1994	Engelke et al
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75]	Inventors: Thomas J. McLaughlin, Salt Lake	5,351,288	9/1994	Engelke et al
	City; James E. Messinger, Sandy;	5,361,296	11/1994	Reyes et al 379/98
	Ronald J. Nelson, Salt Lake City, all of	5,473,674	12/1995	Maeda 379/100
	Utah	5,491,720	2/1996	Davis et al 375/222

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Brochure for MIC300i modem, marketed by Microflip, Inc., undated (two pages).

Primary Examiner-Wing F. Chan Attorney, Agent, or Firm-Madson & Metcalf

7] ABSTRACT

A communication system includes an ITU/TDD/VOICE modem that is connected to a local computer and a telephone line. The ITU/TDD/VOICE modem allows transmission and reception of ITU, TDD, and voice signals over the telephone line to and from a remote device. Examples of remote devices include a remote TDD or ITU modem (which connects to a remote computer), or a telephone. The ITU/ TDD/VOICE modem may operate in various modes including (1) a computer communications mode and (2) a stand alone mode. During computer communications mode, the ITU/TDD/VOICE modem is controlled by the local computer. During stand alone mode, the ITU/TDD/VOICE modem operates independently of the local computer. The stand alone mode may further include an answering machine mode and prestored outgoing message mode. The ITU/ TDD/VOICE modem includes various other features including one or more of the following: a particular utilization of the transmit/receive LED's in TDD mode; the ability to reacquire a new ITU or TDD connection from TDD mode (i.e., reacquisition mode); techniques for minimizing answer tone duration; techniques for modem status query; techniques for silencing Baudot or ITU modulation during voice carry over or hearing carry over; uses for audio-in and audio-out connectors.

, ,	5,311,578 5/1994 Bremer et al			22 Claims, 7 Drawing Sheets		
OUTGOING MESSAGE BUTTON ANSWERING MACHINE BUTTON	7	14 ITU/TDD/VOICE MODEM	DOWED \	42 22	REMOTE TDD REMOTE TDD REMOTE TOUR COMPUTER 28 REMOTE TELEPHONE 30	

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Field of Search

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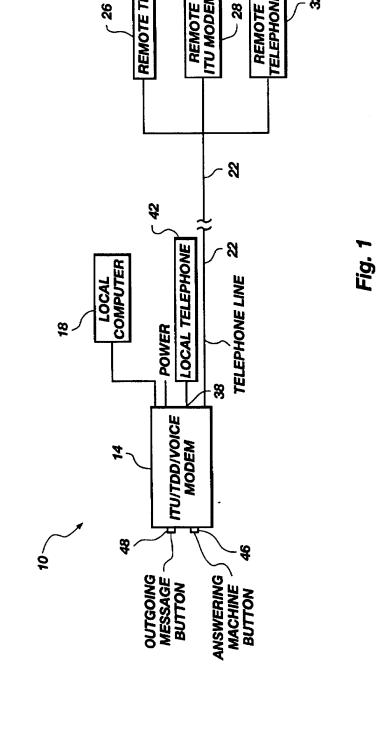
U.S. Cl. 379/97; 375/222; 375/225;

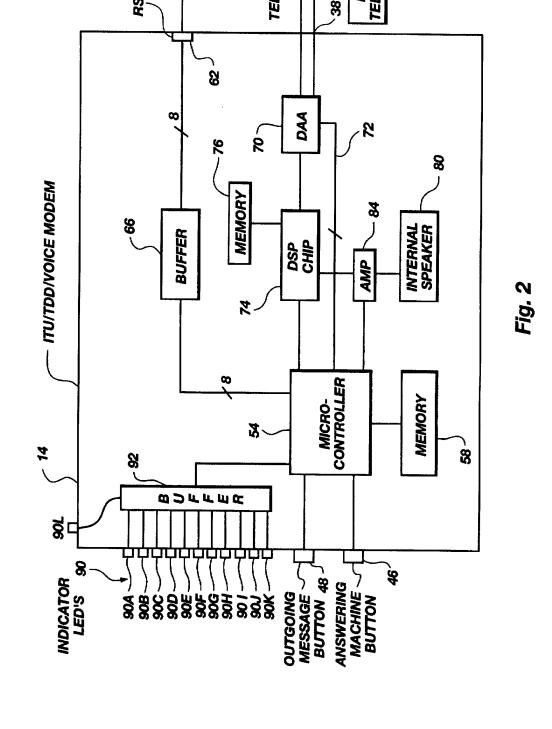
375/93, 90, 110, 88, 67, 70, 82, 222, 223,

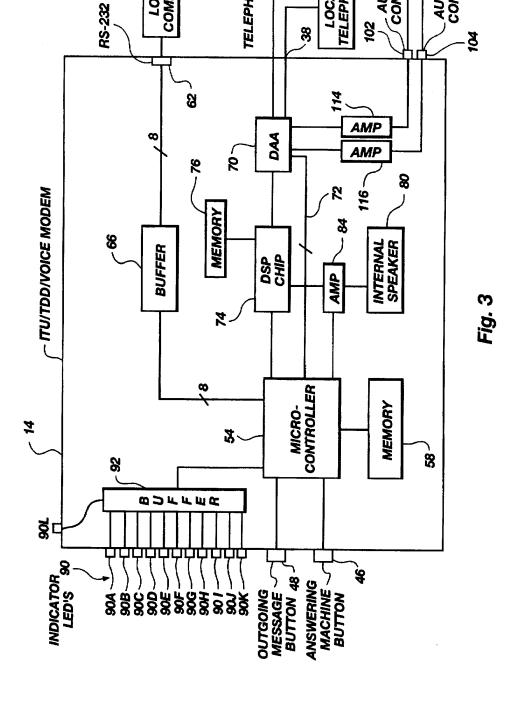
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