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Li et al.

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[54] **VOICE OVER DATA MODEM WITH SELECTABLE VOICE COMPRESSION**

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[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,452,289.

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[21] Appl. No.: **271,496**

[22] Filed: **Jul. 7, 1994**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 161,915, Dec. 3, 1993, Pat. No. 5,453,986, which is a continuation-in-part of Ser. No. 142,807, Oct. 25, 1993, Pat. No. 5,535,204, which is a continuation-in-part of Ser. No. 2,467, Jan. 8, 1993, Pat. No. 5,452,289.

[51] Int. Cl.⁶ **H04J 3/12; H04L 12/56**

[52] U.S. Cl. **370/426; 370/468; 370/495; 375/222; 379/97**

[58] Field of Search 370/110.1, 109, 370/118, 79, 76, 80, 94.2, 94.1, 84, 24, 31, 112, 81, 83; 379/89; 375/222, 377; 341/51, 61; 395/2, 2.41, 2.32

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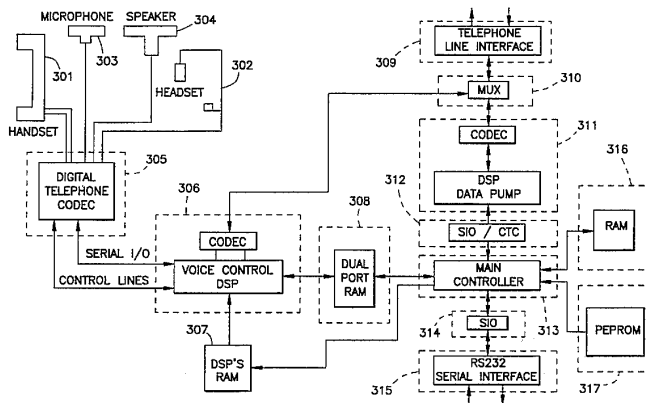
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[57] ABSTRACT

A personal communications system enables the operator to simultaneously transmit voice and data communication to a remote site. The personal communications system is equipped with two telephone line interfaces to allow connection between two remote sites. The connection between the first remote site and the local site may operate in a voice over data communications mode to simultaneously send compressed voice and data. A digital transmission protocol which is consistent with current packet standards is used to create an independent channel through use of a modified supervisory packet for negotiating communication parameters, including the speech compression algorithm, the speech compression ratio, the communication multiplex scheme, and other operations needed for control of remote hardware interfaces.

17 Claims, 27 Drawing Sheets



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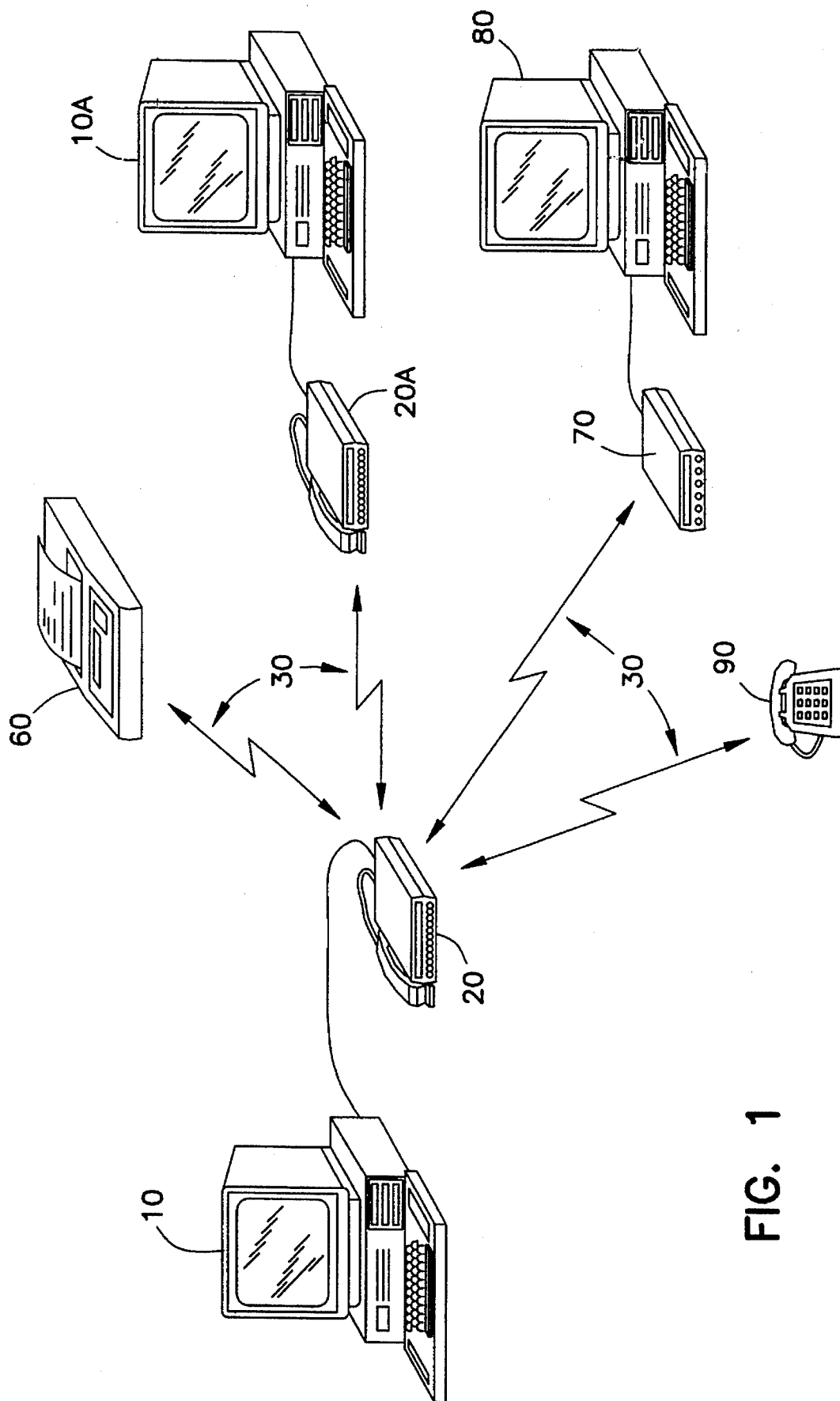


FIG. 1

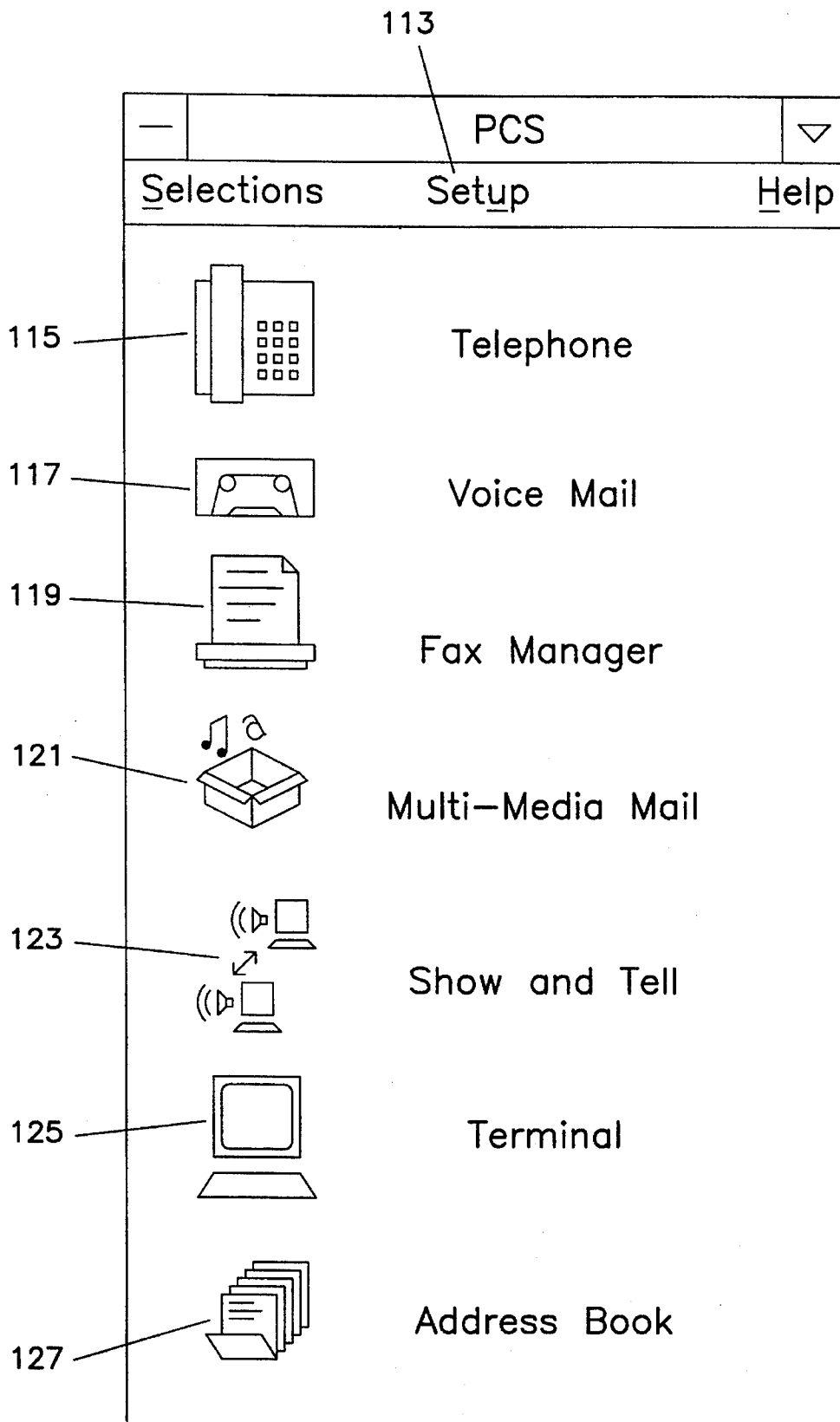


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