

United States Patent [19]

Kepley et al.

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[54] MESSAGE SERVICE SYSTEM NETWORK

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[51] Int. Cl.⁴ H04M 3/50; H04M 11/00

[52] U.S. Cl. 379/88; 379/96; 379/142

[58] Field of Search 379/96, 88, 142, 93, 379/89

[56] References Cited

U.S. PATENT DOCUMENTS

- 4,266,098 5/1981 Novak 379/142 X
- 4,304,968 12/1981 Klausner et al. 379/142 X
- 4,436,963 3/1984 Cottrell et al. .
- 4,506,111 3/1985 Takenouchi et al. .
- 4,549,047 10/1985 Brian et al. 379/88
- 4,581,486 4/1986 Matthews et al. 379/88
- 4,612,416 9/1986 Emerson et al. .
- 4,625,081 11/1986 Lotito et al. 379/196 X
- 4,646,346 2/1987 Emerson et al. .

FOREIGN PATENT DOCUMENTS

- 60-121863 6/1985 Japan 379/142
- WO86/05650 9/1986 World Int. Prop. O. 379/96

OTHER PUBLICATIONS

Hedman, "MD-110 in the Automated Office", Ericsson Review, No. 2, 1983, pp. 88-93.

Lee et al., "Meridian SL Information Services", Telesis 1985 two, pp. 12-19.

T. Kamae, "Development of a Public Facsimile Communication System Using Storage and Conversion Techniques", IEEE, 1980 National Telecommunications Conference, Houston, Tex., Nov. 30-Dec. 4, 1980, pp. 19.4.1 to 19.4.5.

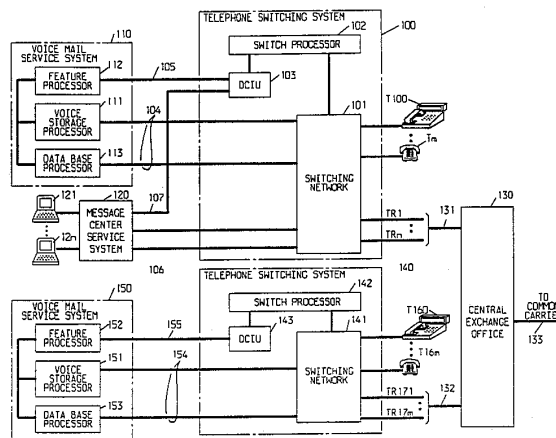
Bayer & Thompson, "An Experimental Terminal-The Software Strategy", *The Bell System Technical Journal*, vol. 62, No. 1, Jan. 1983, pp. 121-144.

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Attorney, Agent, or Firm—John C. Moran

[57] ABSTRACT

This invention relates to business communication systems and, in particular, to a message service system network that interconnects a plurality of message service systems and provides a voice mail message transfer capability between voice mail message service systems. The voice mail message transfer is performed as a computer-to-computer data file transfer operation over high speed data lines. The data file consists of the digitally encoded and compressed voice mail message to which is appended the message sender's name and telephone number as well as the message recipient's telephone number.

12 Claims, 7 Drawing Sheets



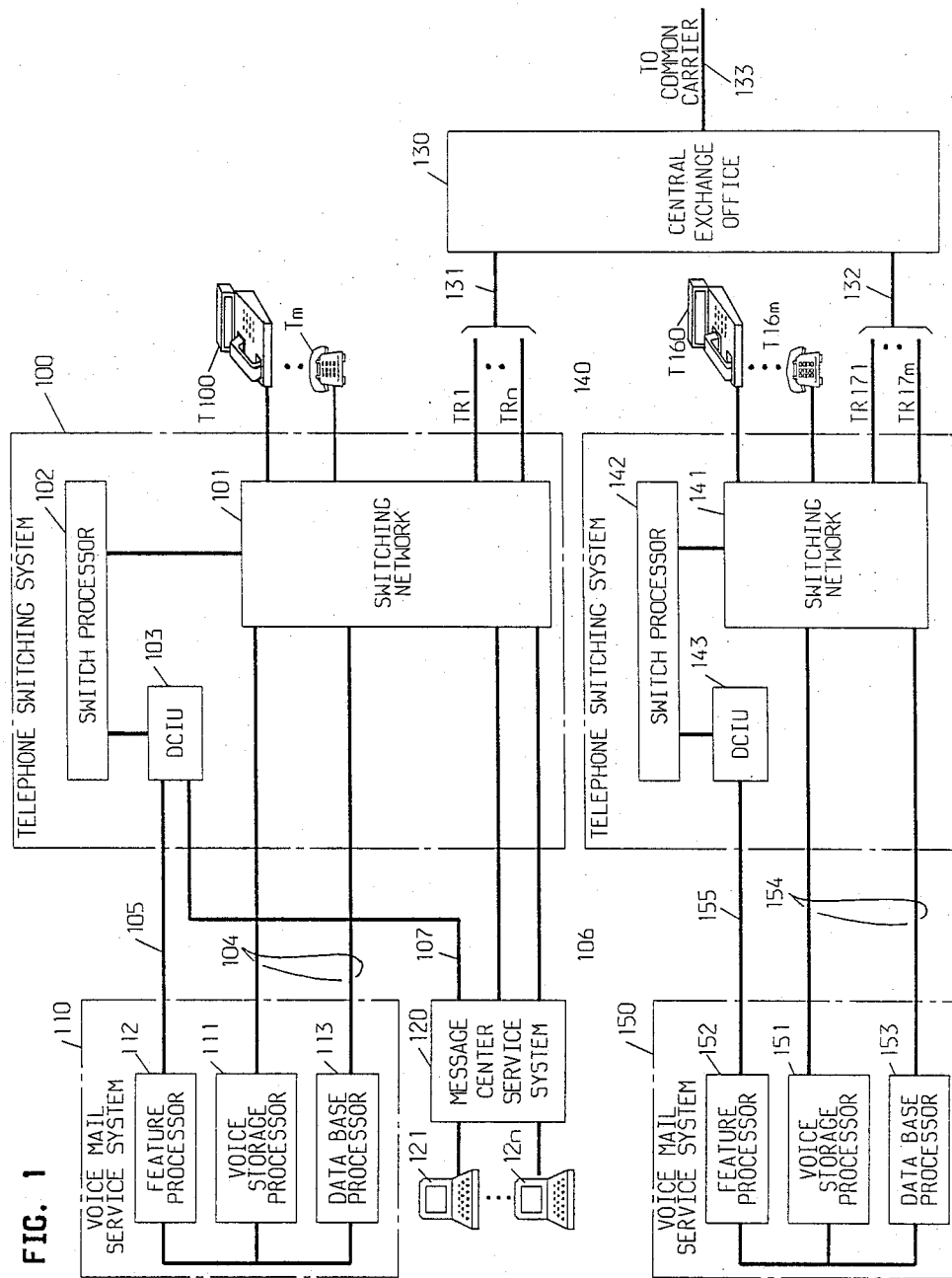


FIG. 1

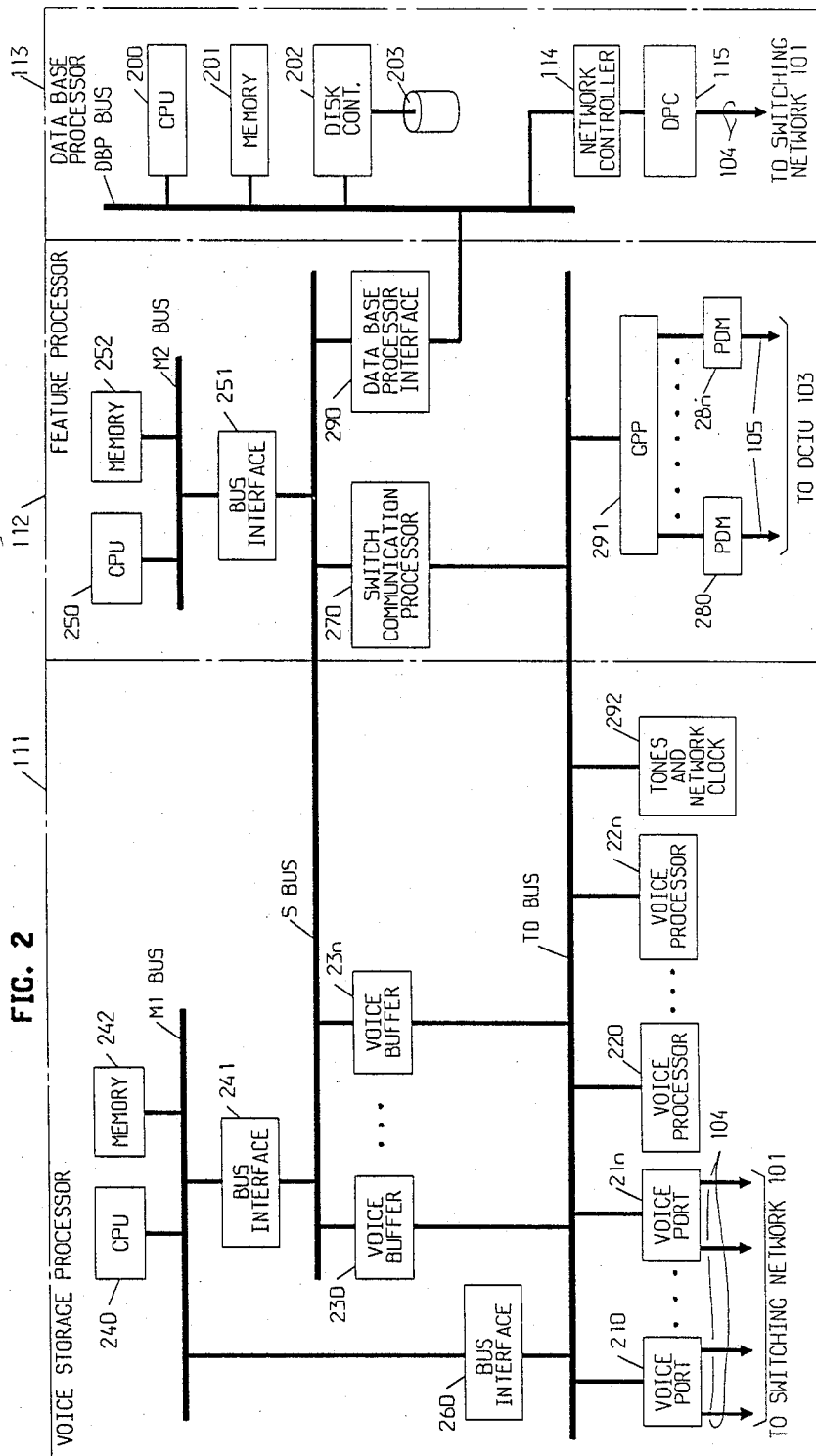


FIG. 3

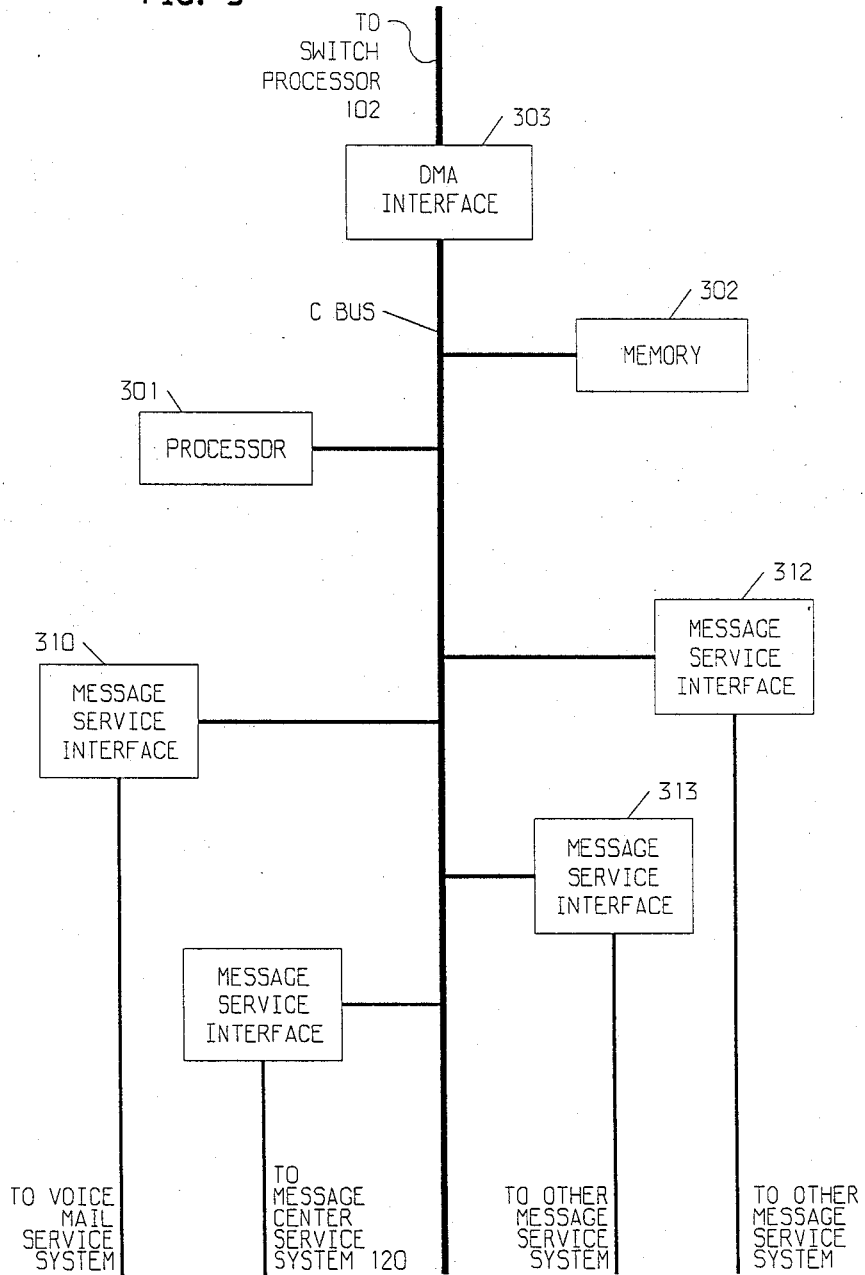


FIG. 4

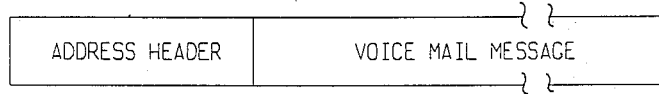


FIG. 5

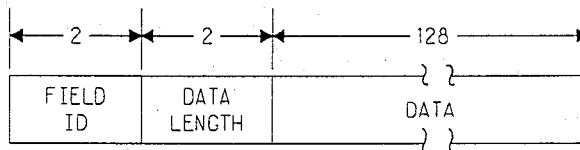
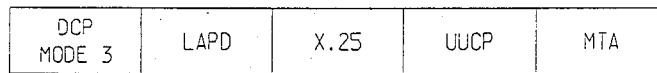


FIG. 6



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