



[54] VIDEOPHONE APPARATUS, METHOD AND SYSTEM FOR AUDIO AND VIDEO CONFERENCING AND TELEPHONY

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[\*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

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[51] Int. Cl.<sup>7</sup> ..... H04Q 11/00

[52] U.S. Cl. .... 370/265; 348/15; 379/202

[58] Field of Search ..... 370/260, 261, 370/263, 265, 266, 267, 268, 269, 270, 271, 463; 348/15, 423; 379/202, 206

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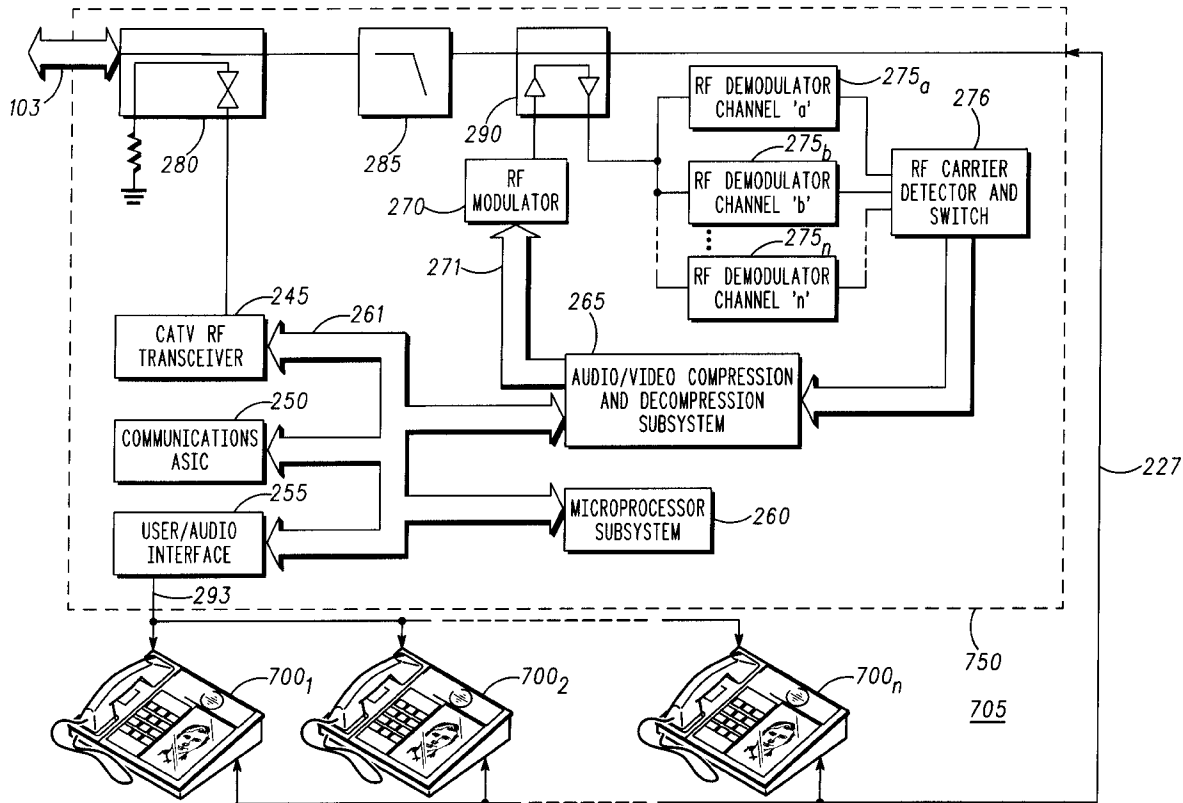
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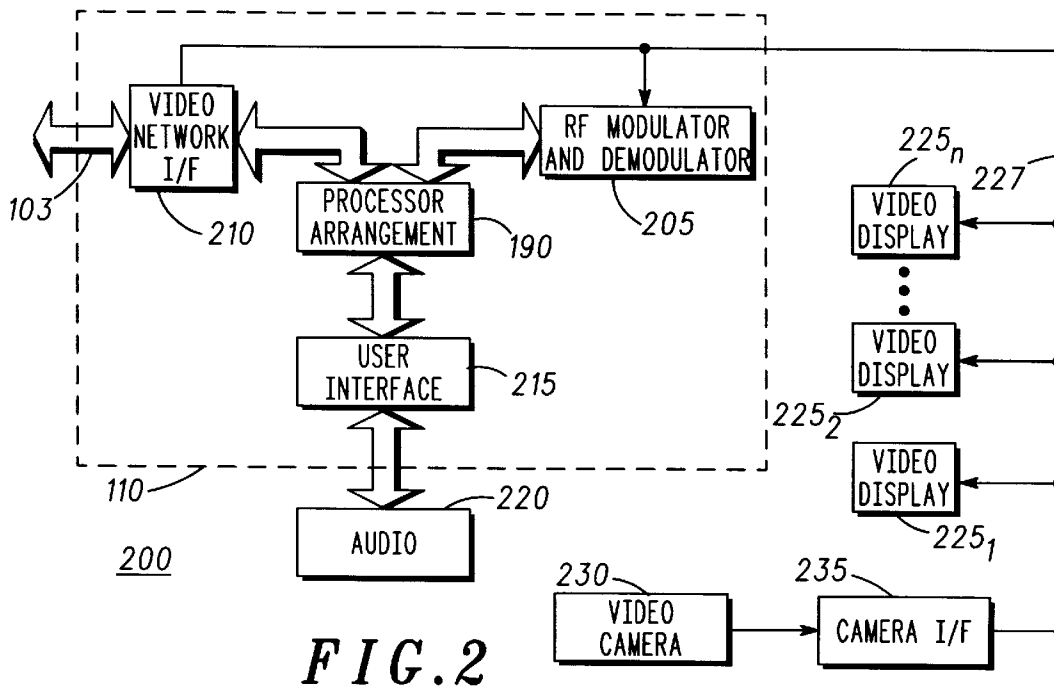
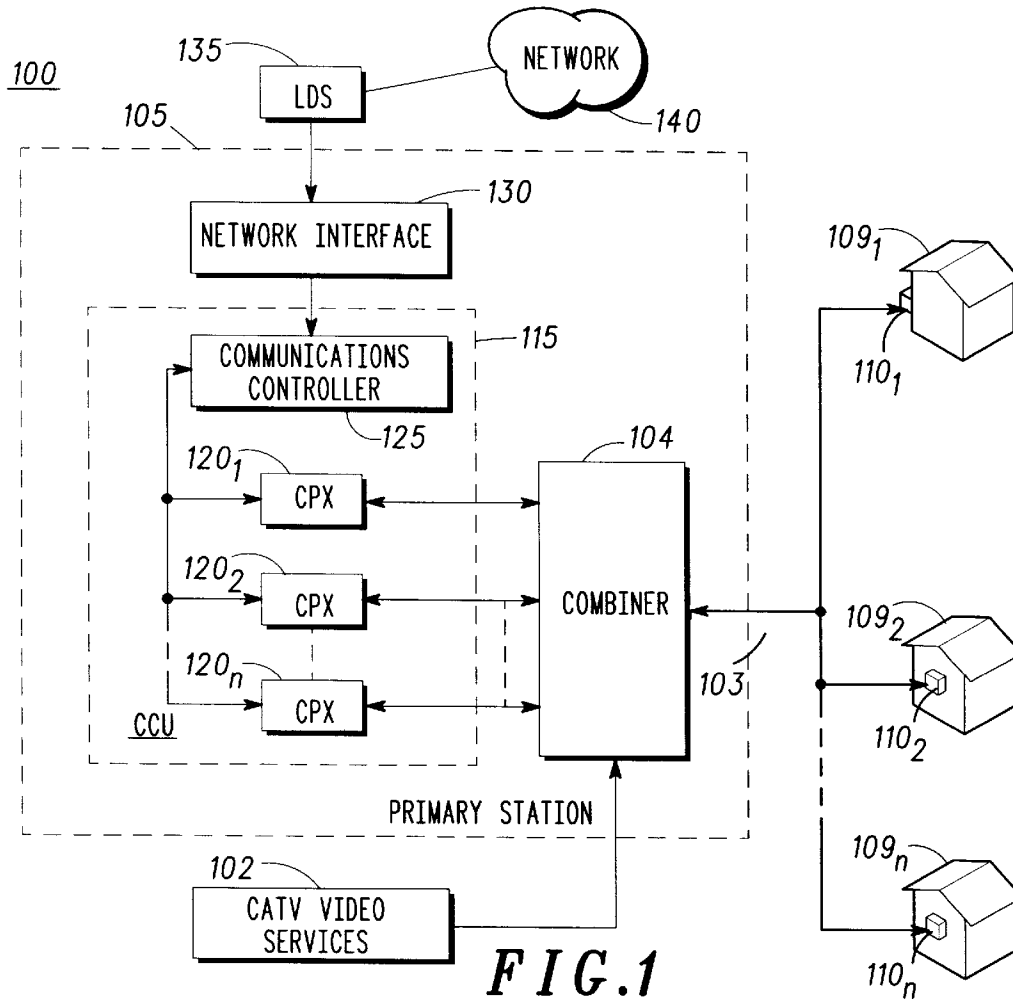
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[57] ABSTRACT

A video access apparatus (110, 150, 750, 850) provides for audio and video teleconferencing and telephony via a first communication channel (103) coupled to a primary station (105) having communication with a network (140), such as the public switched telephone network or an ISDN network. The video access apparatus (110) includes a video network interface (210); a radio frequency modulator/demodulator (205); a user interface (215); and a processor arrangement (190). A videophone apparatus (700, 800) is coupleable to a video access apparatus via a second communication channel for video reception and transmission, and via a third communication channel for audio reception and transmission. The videophone apparatus includes a video monitor (715), a camera interface (235), a video camera (720), and a telephony module (710). Multiple videophone apparatuses (700, 800) may be used simultaneously, and multiple video signals from the videophone apparatuses (700, 800) may be multiplexed and combined into one composite video signal for transmission to the network (140).

14 Claims, 12 Drawing Sheets





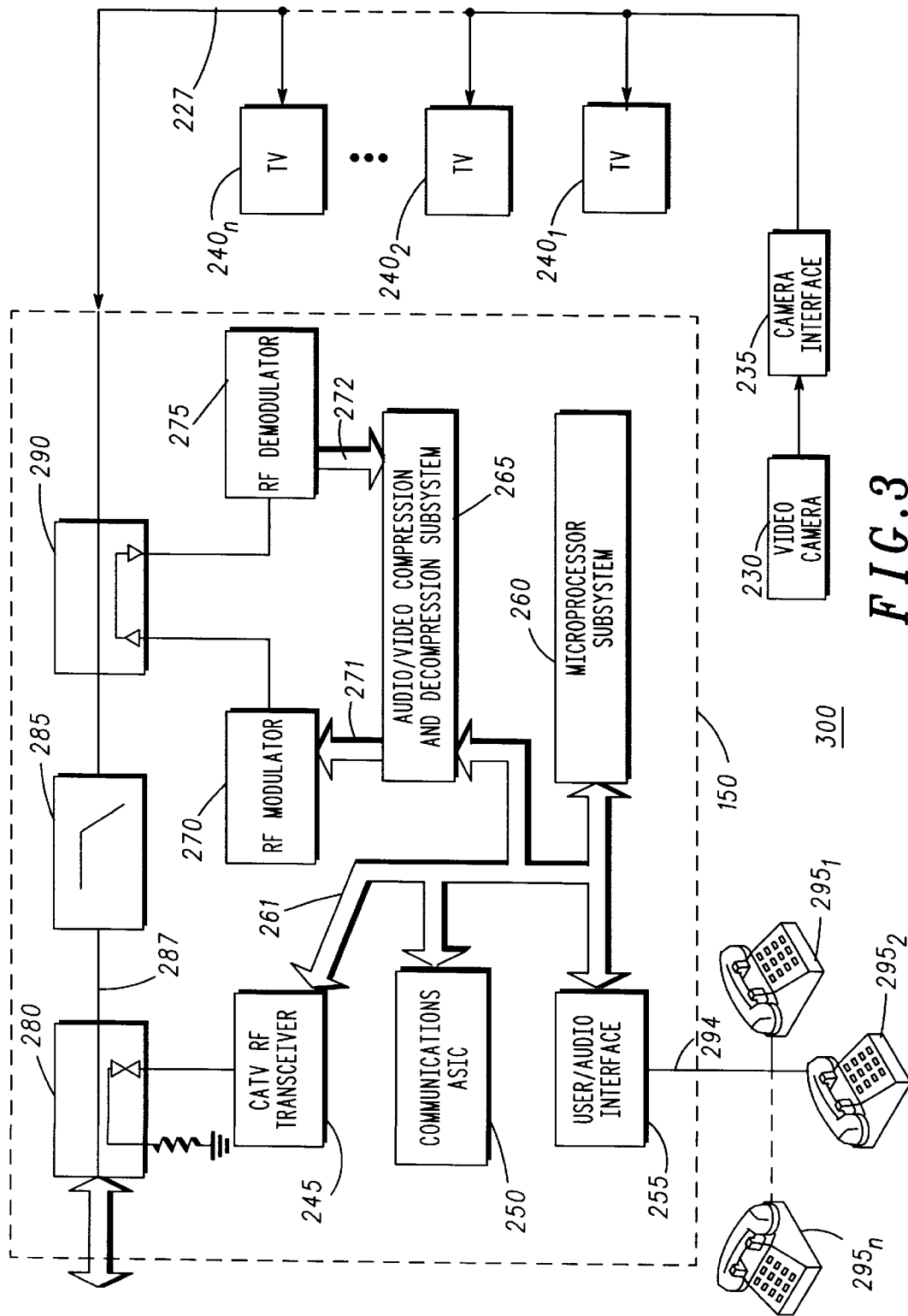


FIG. 3

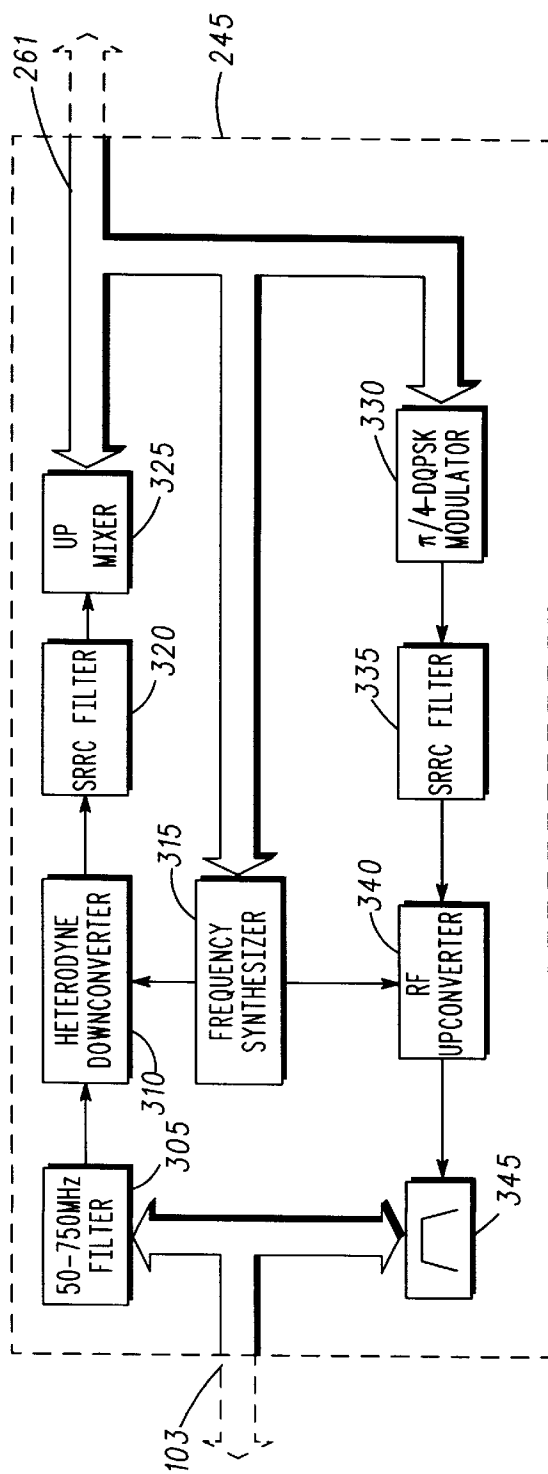


FIG. 4

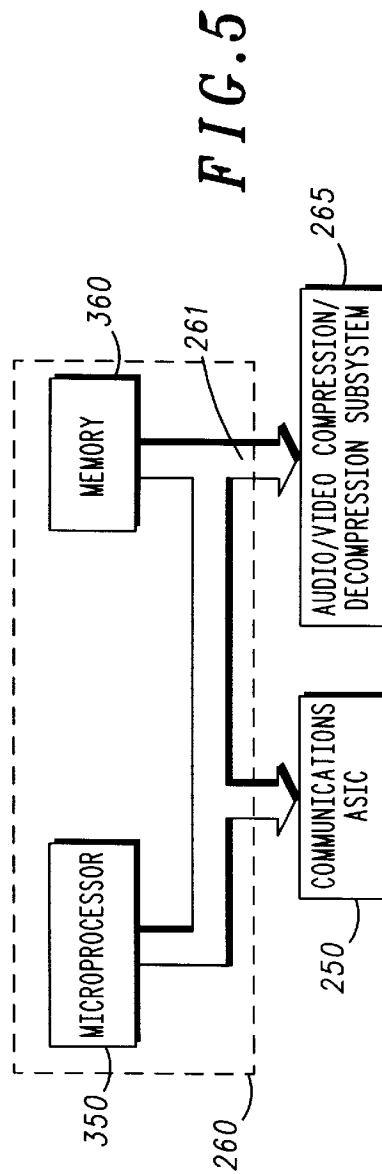


FIG. 5

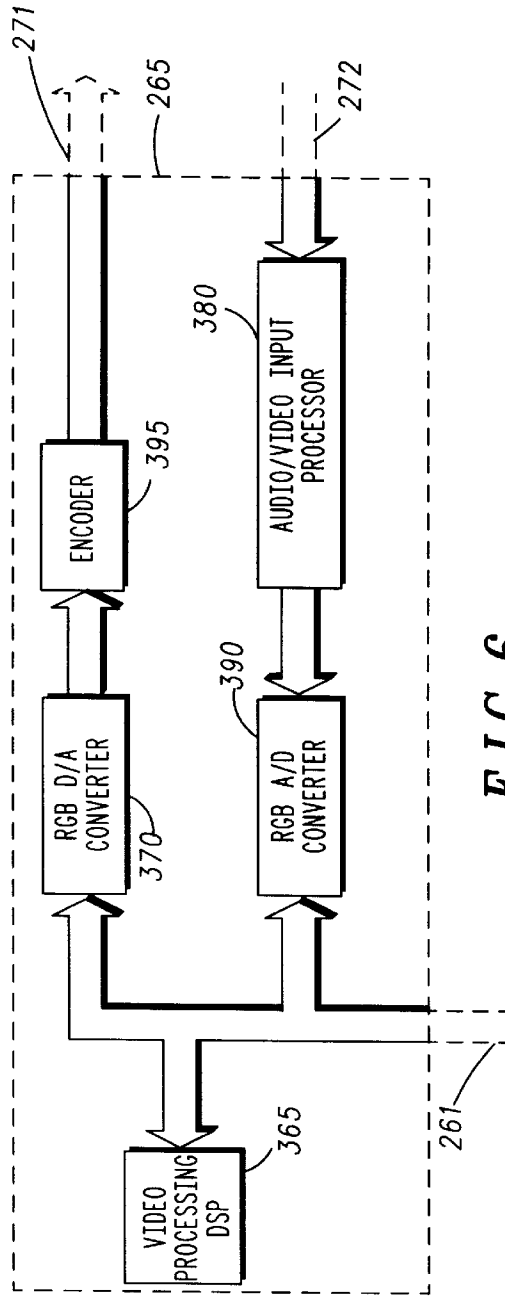


FIG. 6

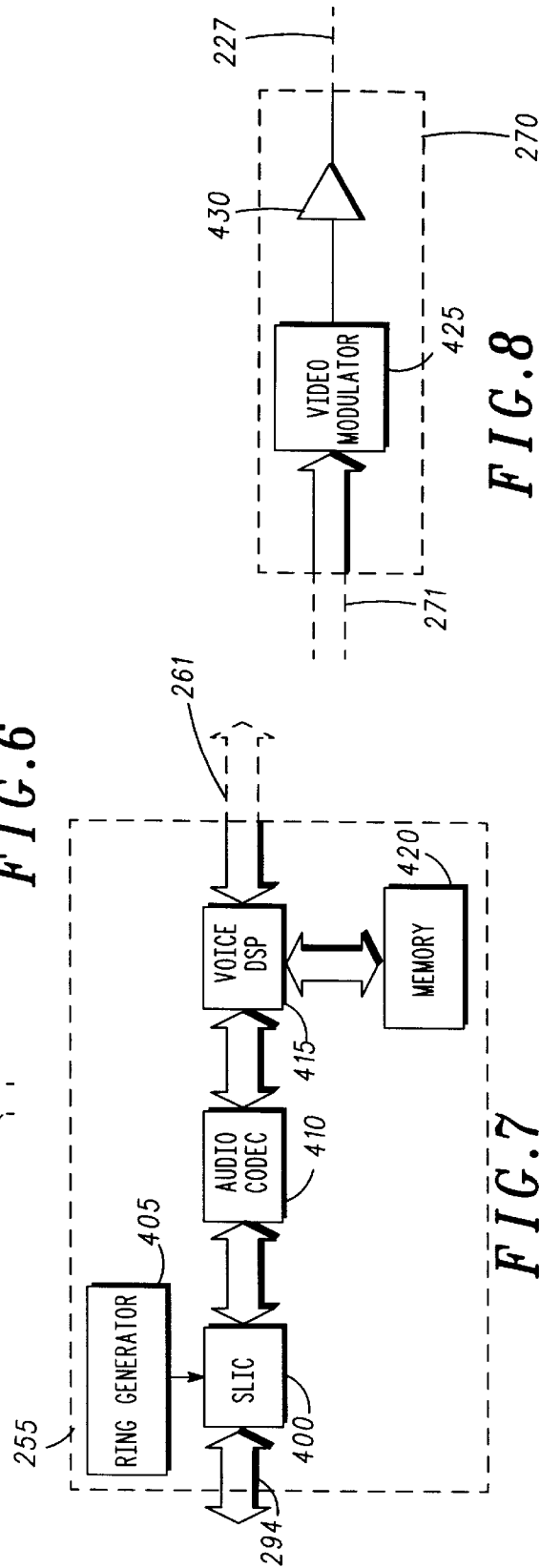


FIG. 8

FIG. 7

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