



US005961589A

United States Patent [19] Hansen

[11] **Patent Number:** **5,961,589**
[45] **Date of Patent:** **Oct. 5, 1999**

[54] **EMULATION OF ANALOG MODEM SIGNALING OVER ISDN FOR TRANSLATION-LESS INTEROPERABILITY WITH PSTN BASED H.324 SYSTEM**

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5,815,505 9/1998 Mills 370/522

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[21] Appl. No.: **08/926,413**

[57] **ABSTRACT**

[22] Filed: **Sep. 9, 1997**

What is disclosed is a system for translationless videoconferencing interoperability between an analog modem based node and an Integrated Services Digital Network (ISDN) node having a videoconferencing engine coupled to the ISDN node, the videoconferencing engine generating videoconferencing data according to an analog modem protocol. Further the system has a modem emulator coupled to the videoconferencing engine, the modem emulator configured to model said data as analog modem data interpretable by the analog modem based node.

[51] **Int. Cl.**⁶ **H04N 7/15**; G06F 13/42; G06F 13/38

[52] **U.S. Cl.** **709/205**; 709/204; 370/264; 345/330

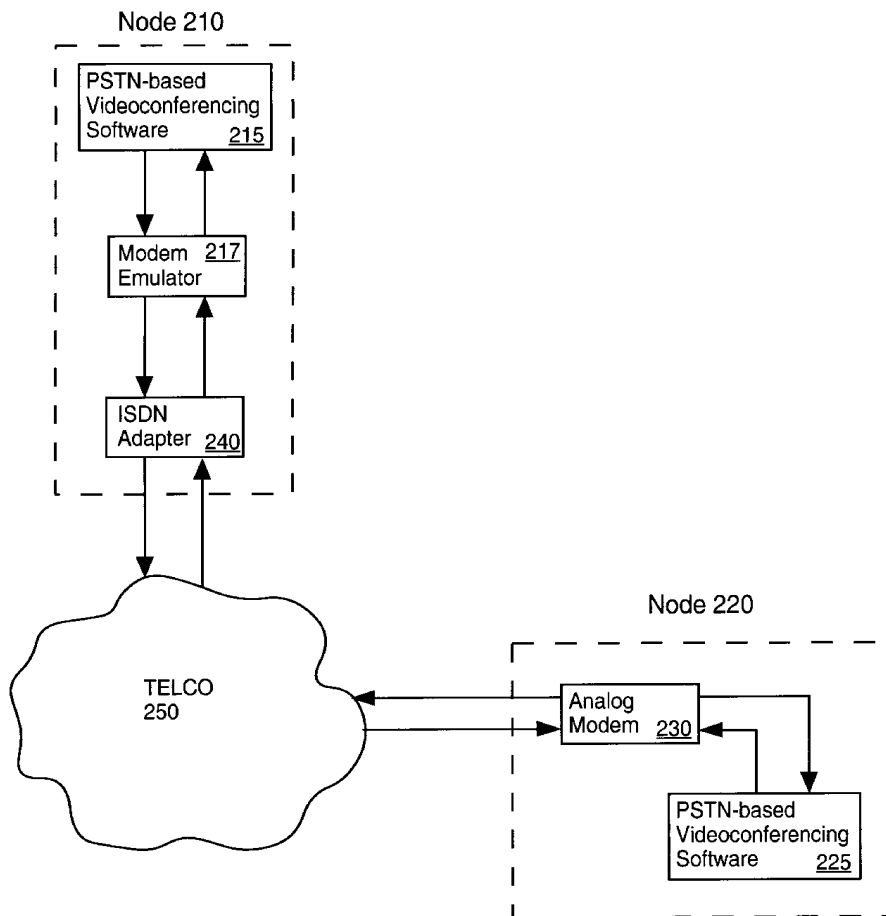
[58] **Field of Search** 395/200.61, 200.34, 395/200.36, 200.35; 370/260, 352, 309, 496, 264; 455/416; 399/90.01, 202, 219, 93.21; 348/17, 15; 345/330; 300/10; 709/205, 204, 203, 206, 207

[56] **References Cited**

U.S. PATENT DOCUMENTS

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15 Claims, 6 Drawing Sheets



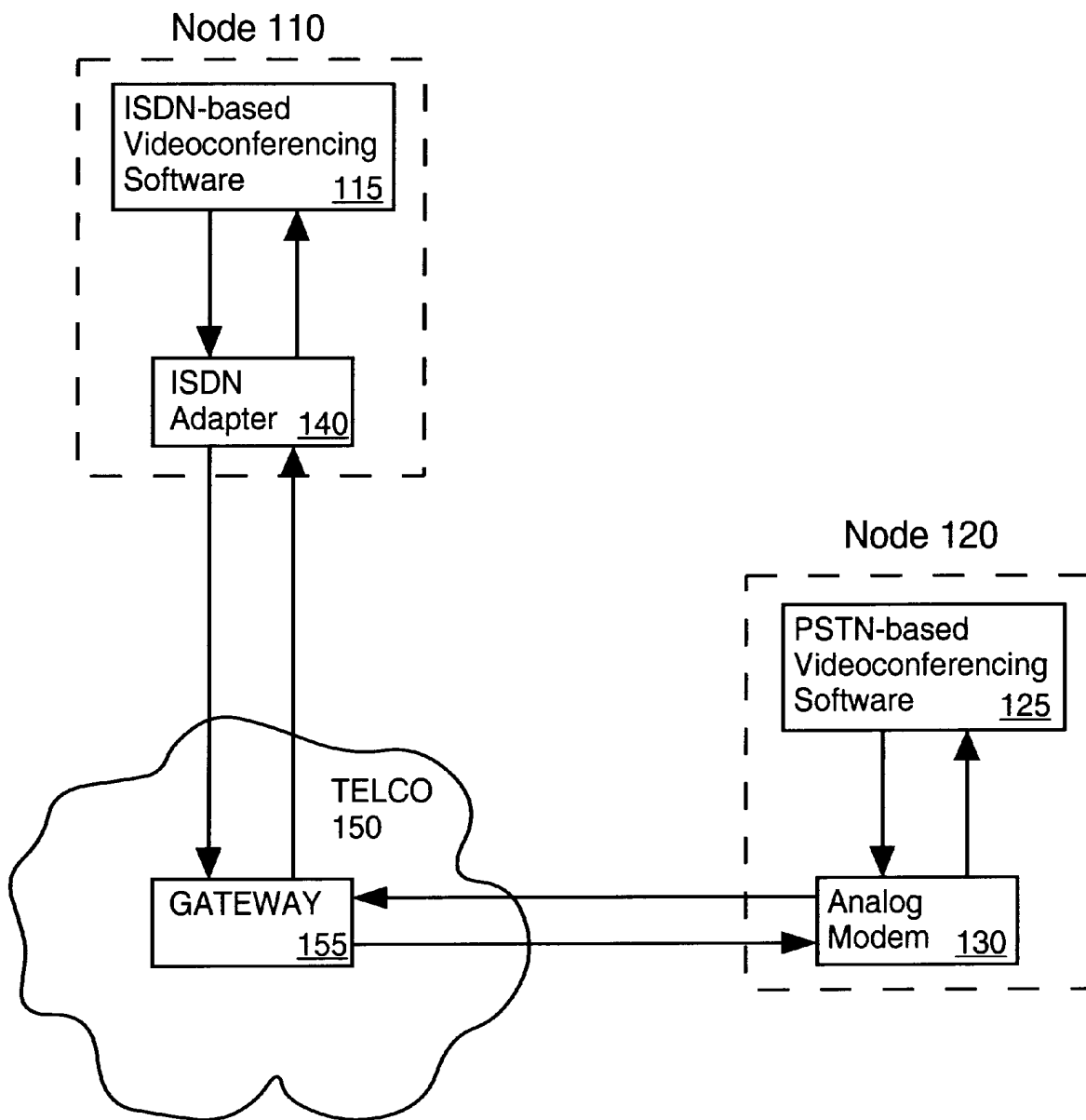


Fig. 1
(Prior Art)

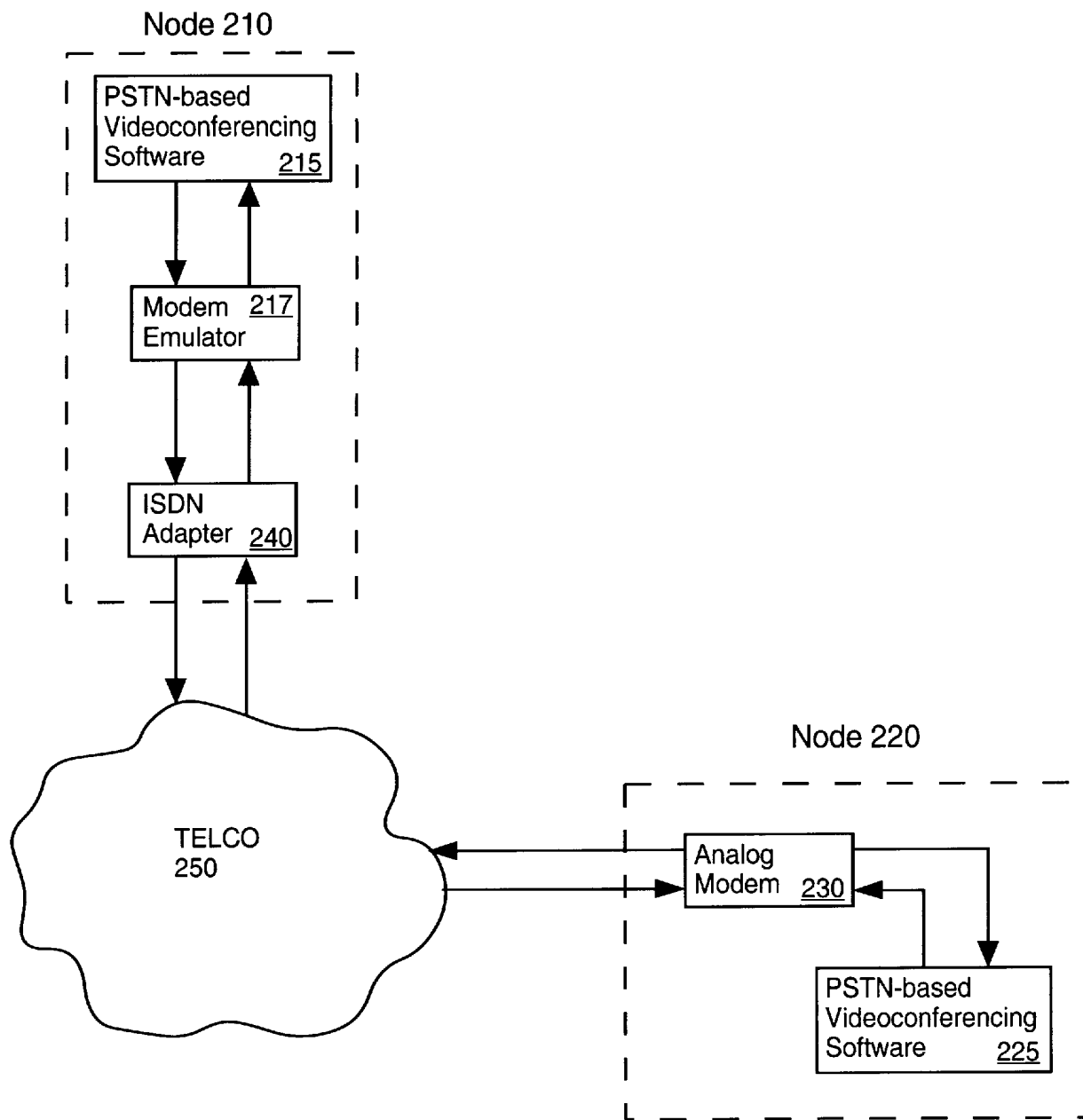
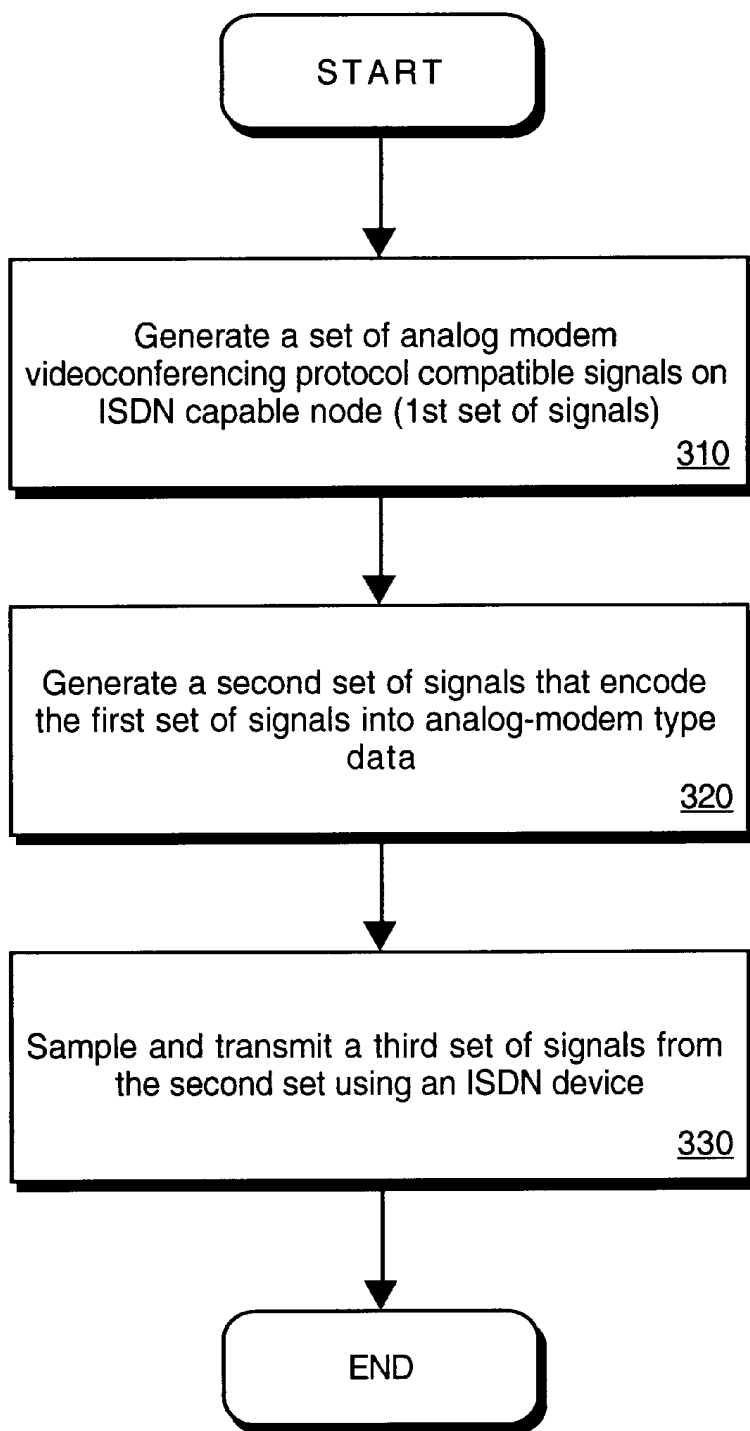


Fig. 2

**Fig. 3**

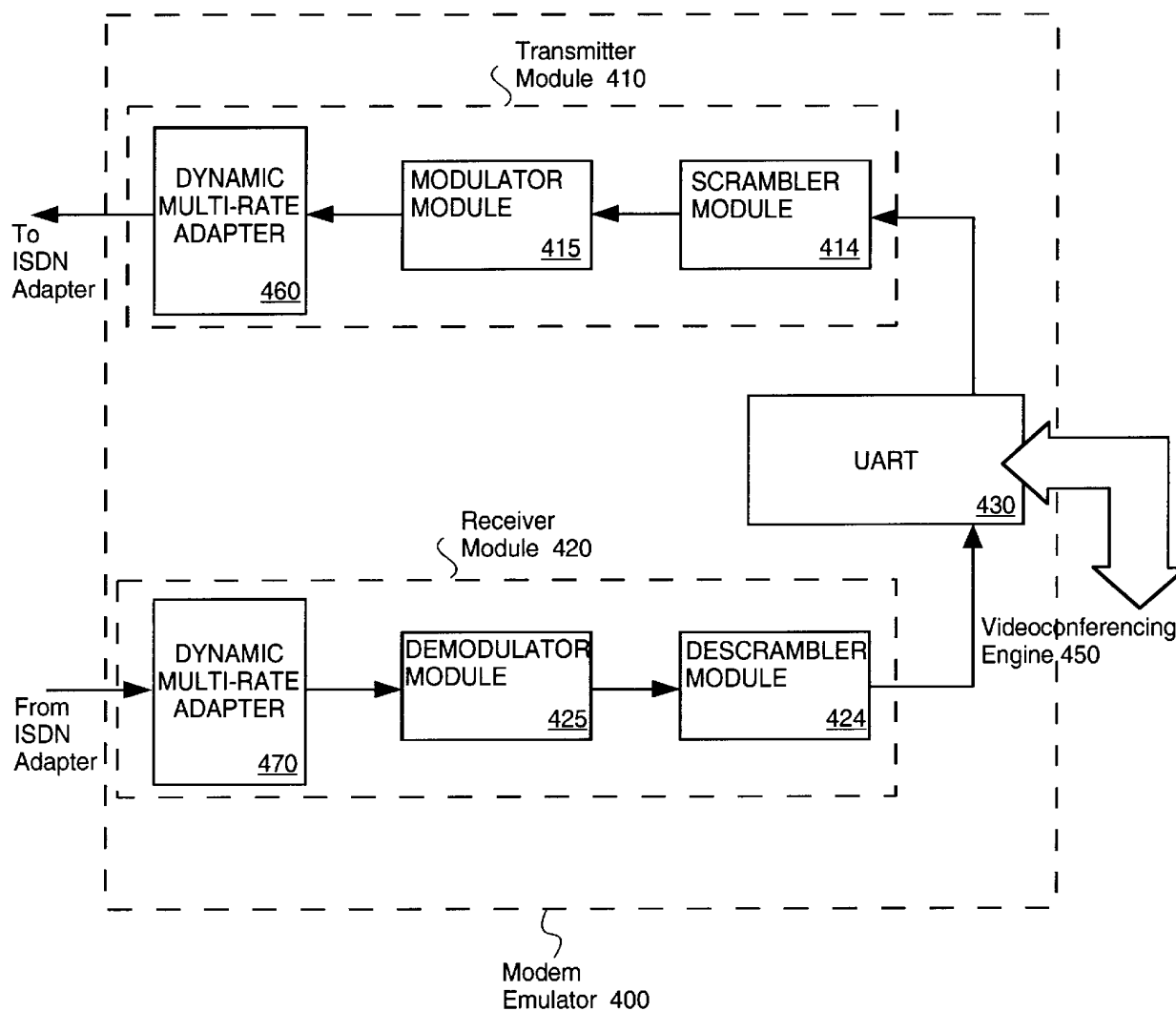


Fig. 4

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