

- [54] **CLOSED CIRCUIT TELEVISION MODEM SHARING SYSTEM**
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 [73] Assignee: **Hughes Aircraft Company**, Culver City, Calif.
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 [52] U.S. Cl. **178/5.1; 325/308; 178/DIG. 13**
 [51] Int. Cl. **H04n 1/44**
 [58] Field of Search **325/308; 178/5.1, DIG. 13**

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ABSTRACT
 A system for controlling CATV program viewing in a plurality of modes of operation. In a first mode of operation, a downstream digital transmission causes control means to develop first binary data for comparison in a comparator with selected-channel code data from channel means to enable a first circuit to allow a first or second category program to be selected and received by a subscriber during a predetermined temporary period of time. In a second mode of operation the enabling of a second circuit by the subscriber will only cause the control means to be enabled if the subscriber is authorized to receive that selected first category program. In a third mode of operation the enabling of the second circuit by the subscriber will enable a third circuit to allow a selected second category program to be received. In a fourth mode of operation the selection of a third category program by the subscriber will enable a fourth circuit to allow that selected third category program to be received. MODEM sharing networks are provided in the cable system interconnecting a local processing center and the various subscriber terminals. Each MODEM sharing network has modulation and demodulation circuitry, and ability to handle about twelve subscriber terminals.

8 Claims, 10 Drawing Figures

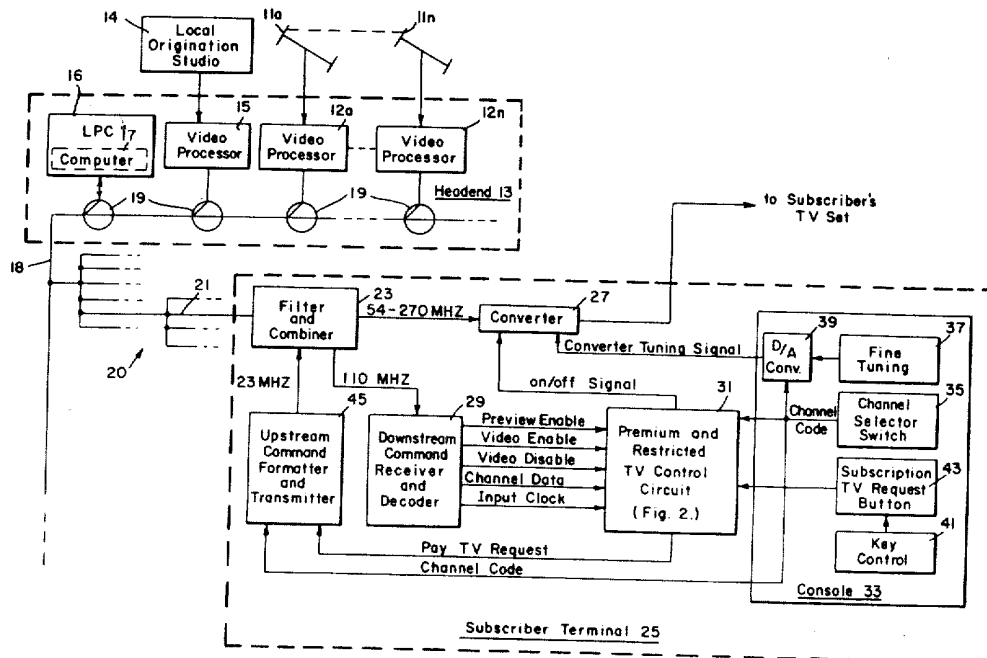
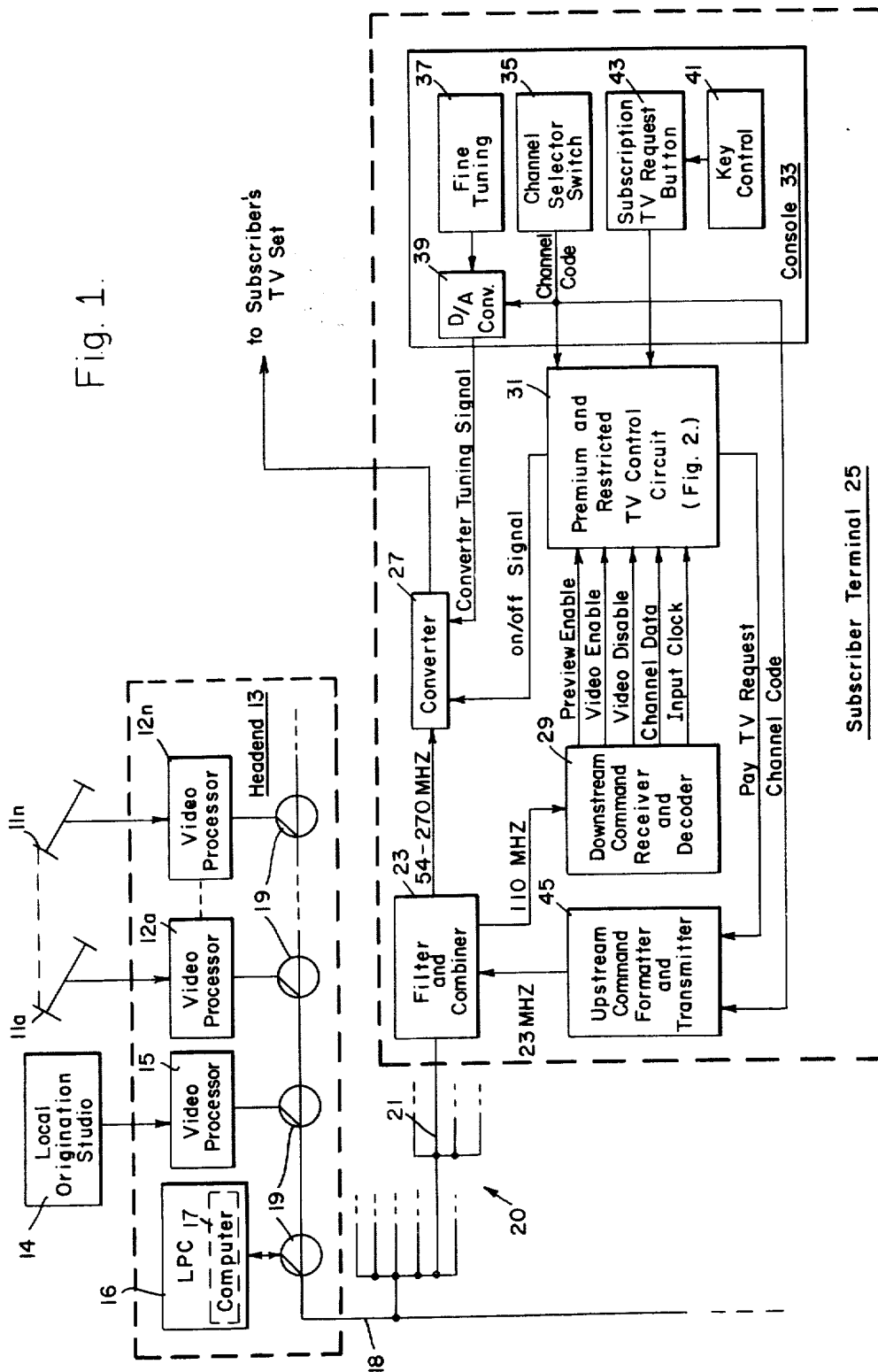


Fig. 1.



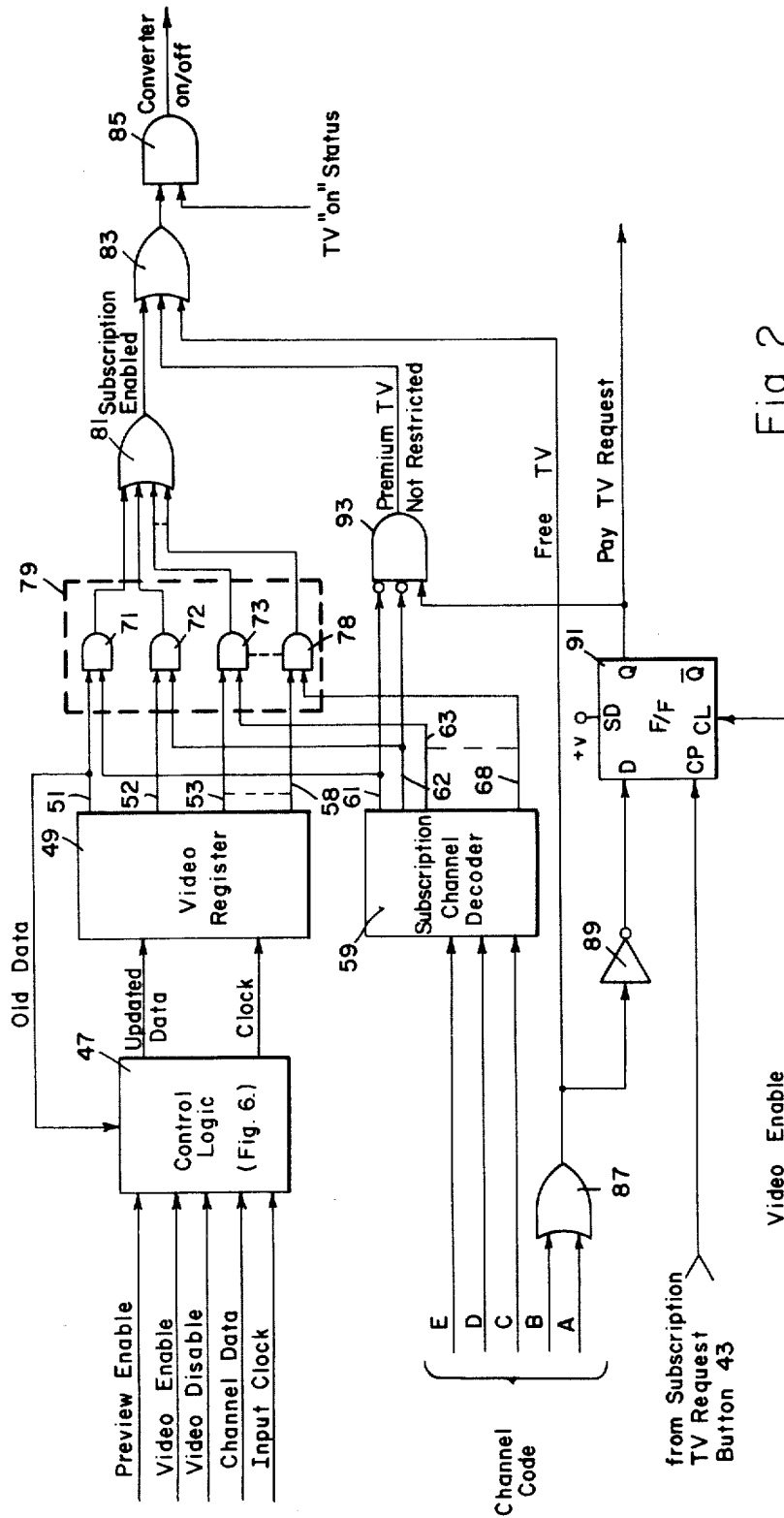


Fig. 2.

Fig. 3.

Channel Code					Status	Decoder 59 Output							
A	B	C	D	E		61	62	63	64	65	66	67	68
0	0	0	0	0	Restricted	1	0	0	0	0	0	0	0
0	0	0	0	1	Restricted	0	1	0	0	0	0	0	0
0	0	0	1	0	Premium	0	0	1	0	0	0	0	0
0	0	0	1	1	Premium	0	0	0	1	0	0	0	0
0	0	1	0	0	Premium	0	0	0	0	1	0	0	0
0	0	1	0	1	Premium	0	0	0	0	0	1	0	0
0	0	1	1	0	Premium	0	0	0	0	0	0	1	0
0	0	1	1	1	Premium	0	0	0	0	0	0	0	1

Fig. 4.

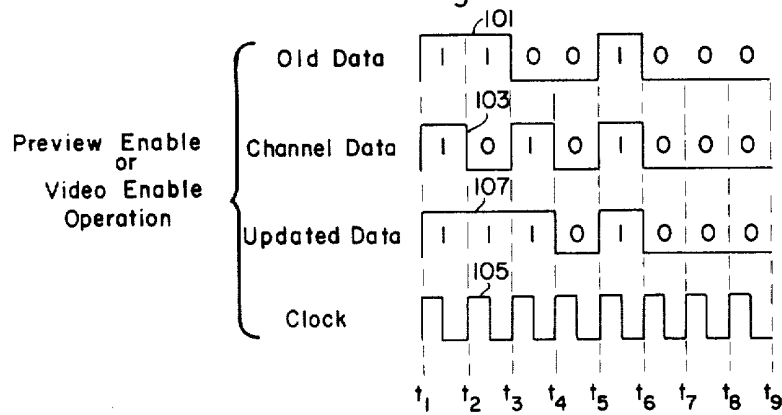
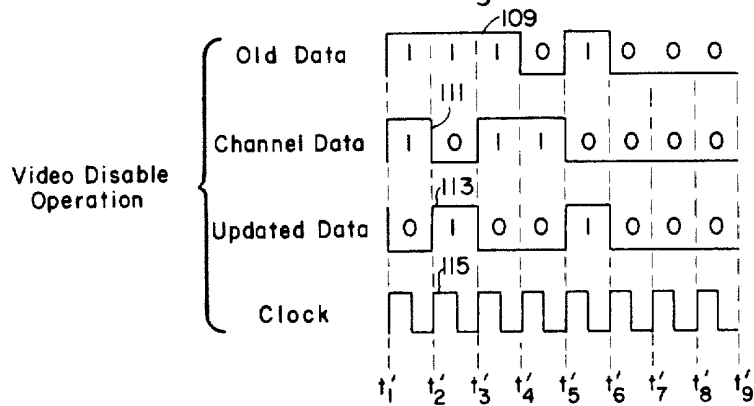


Fig. 5.



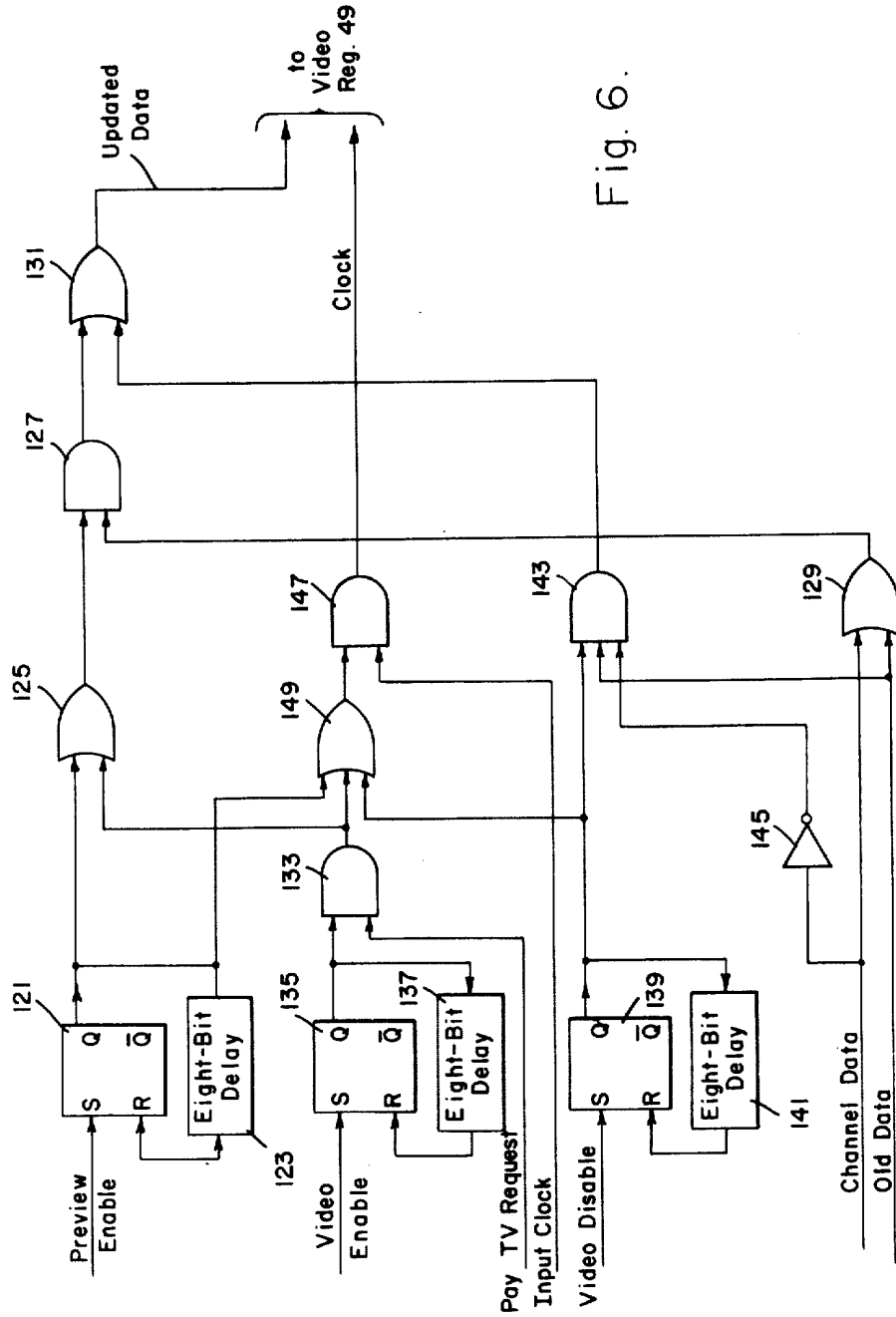


Fig. 6.

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