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## [54] CONTROL AND METERING SYSTEM FOR PAY TELEVISION OVER A CABLE **NETWORK**

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## Related U.S. Application Data

[63]	Continuation-in-part of Ser. No. 823,759, Jan. 29, 1986 abandoned.
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[51]	Int. Cl.4	***************************************	H04N 7/16;	H04N	7/10;
				H04H	1/00

[52] U.S. Cl. ...... 380/10; 380/7; 358/86; 358/349; 455/4

[58] Field of Search .............. 380/7, 10, 20; 358/349, 358/84, 86; 307/256, 259; 333/103, 104, 262; 455/1-4

#### [56] References Cited

### U.S. PATENT DOCUMENTS

3,813,482	5/1974	Blonder 380/15
3,859,457	1/1975	Kirk, Jr 455/1
3,989,887	11/1976	Murphy 455/1
4,012,583	3/1977	Kramer 358/84
4,268,860	5/1981	Blonder 380/7
4,272,791	6/1981	Rifken 358/86
4,367,557	1/1983	Stern et al 455/4
4,425,579	1/1984	Merrell 358/86
4,475,123	10/1984	Dumbauld et al 380/13
4,577,224	3/1986	Ost 380/2
4,594,609	6/1986	Romao et al 380/7

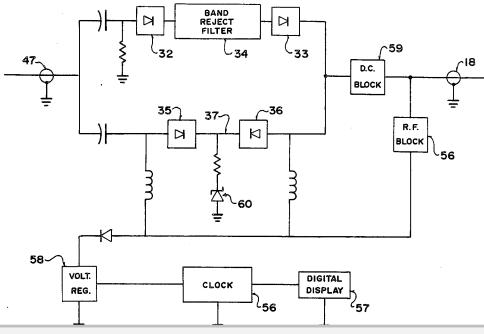
4,598,312	7/1986	Geissler et al	358/86
4,599,647	7/1986	George et al	380/20
4,710,956	12/1987	Rast	380/20
		Long	

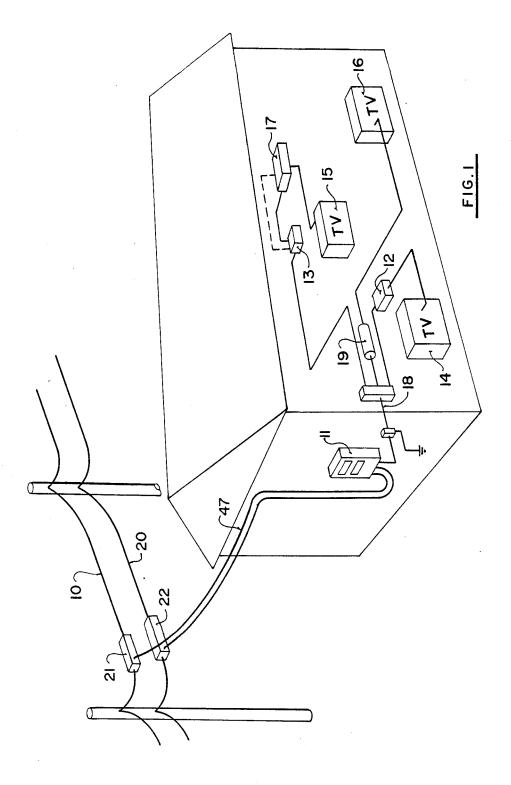
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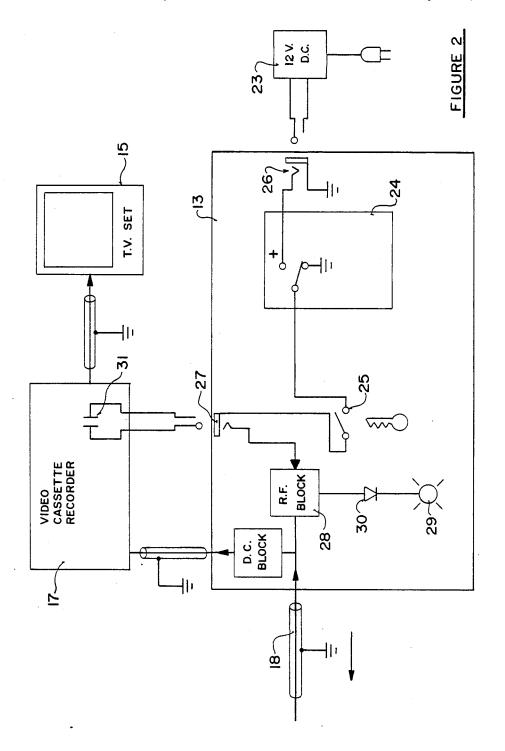
### **ABSTRACT**

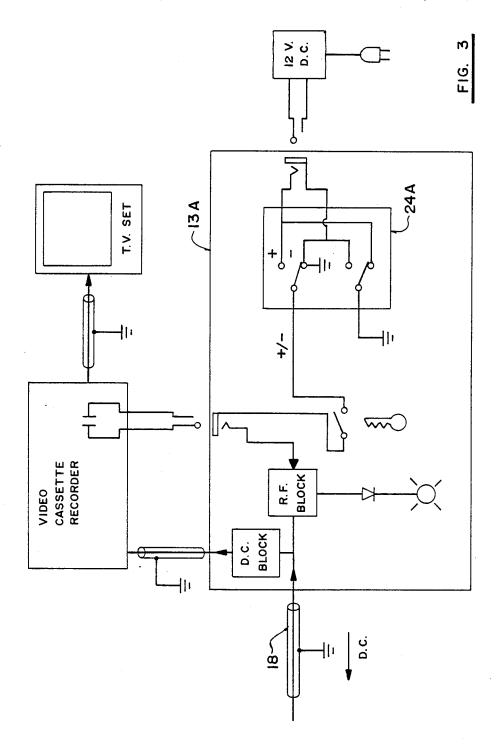
An improved control and metering system for pay television distribution over a cable network. A control unit is located near each receiver on a subscribers premises and a secure filter, switching and metering unit is located external to the subscribers home. For the basic apparatus power and control signals needed to operate the external unit require no separate wiring as these signals are multiplexed over the coaxial cable that carries the TV signal into the home. An improved switch in the external unit activates a temperature compensated digital metering unit that displays either (or both) the time that the premium programming has been accessed or the totalized cost of the pay programming accessed. When implemented in high density housing districts common equipment is centralized and the apparatus is known as a switched star configuration. Also included is apparatus that permits metering to be accomplished at a central location for a community. The apparatus allows for tiering of pay programming utilizing different rates. The system is secure without scrambling or jamming. Another version of the apparatus permits Cable TV Operators to sell common carrier services to independent programmers according to utilization. The apparatus also allows for interfacing the cable TV network with a fibre optic television distribution network, for subscribed switching between the two systems and the metering of the utilization of such an apparatus. The system introduces the idea of a fibre optic video party-line to reduce implementation costs.

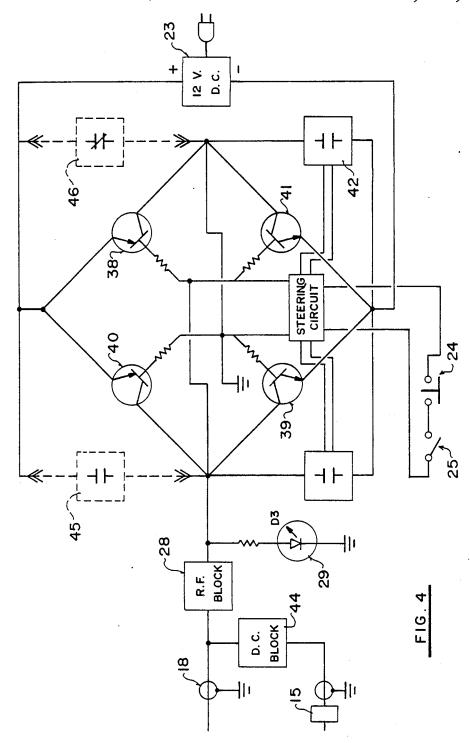
### 14 Claims, 14 Drawing Sheets











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