

United States Patent [19]

[11] **4,439,784**

Furukawa et al.

[45] **Mar. 27, 1984**

[54] **POWER CUTTING DEVICE FOR TERMINAL UNITS OF CATV SYSTEM**

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[73] Assignee: **Pioneer Electronic Corporation,** Tokyo, Japan

[21] Appl. No.: **191,206**

[22] Filed: **Sep. 26, 1980**

[30] **Foreign Application Priority Data**

Sep. 26, 1979 [JP] Japan 54-123549

[51] Int. Cl.³ **H04N 7/18**

[52] U.S. Cl. **358/86; 358/190;**
455/4; 455/5; 340/825.07; 340/310 A

[58] **Field of Search** 358/86, 153, 190, 194,
358/210; 455/4, 5; 361/81; 340/825.07, 310 A

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,761,914 9/1973 Hardy et al. 358/86

3,993,955 11/1976 Belcher et al. 358/86
4,118,669 10/1978 Fung 358/114
4,142,156 2/1979 Freund 455/4
4,367,455 1/1983 Fried 340/310

FOREIGN PATENT DOCUMENTS

696745 9/1953 United Kingdom 358/114
2039402 8/1980 United Kingdom 340/310 A

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Macpeak & Seas

[57] ABSTRACT

In a CATV system, power supplies of television sets associated with all terminal units are cut in response to an instruction contained in a down-data signal supplied by a central facility of the system. It is possible to cut the power supplies of the television sets, selectively and periodically, by incorporating address informations in the down-data signal.

3 Claims, 12 Drawing Figures

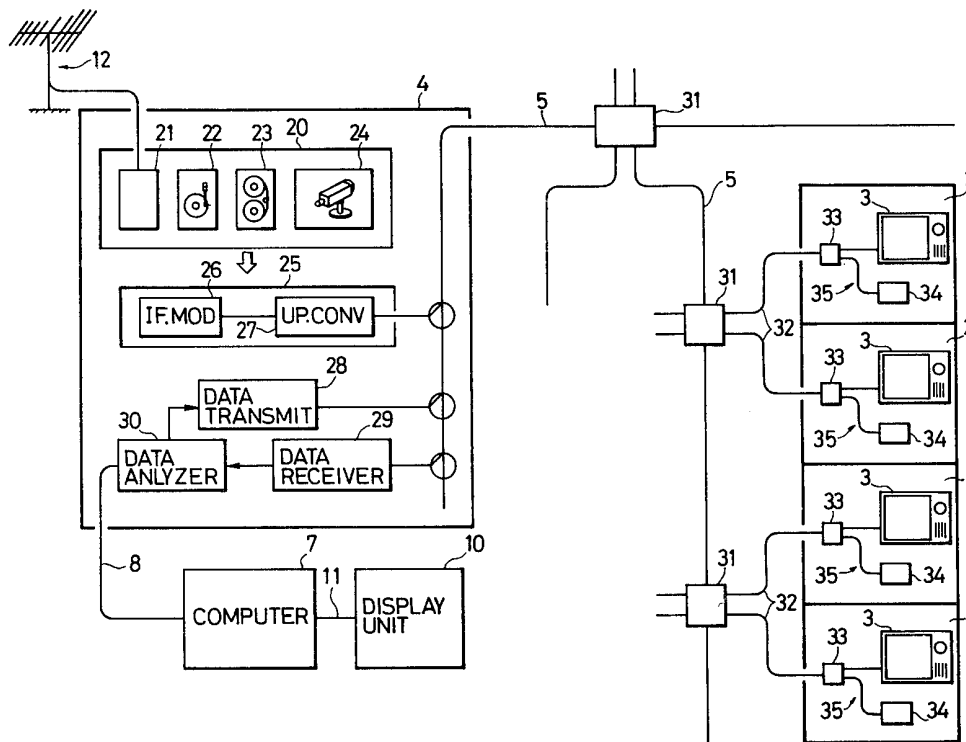
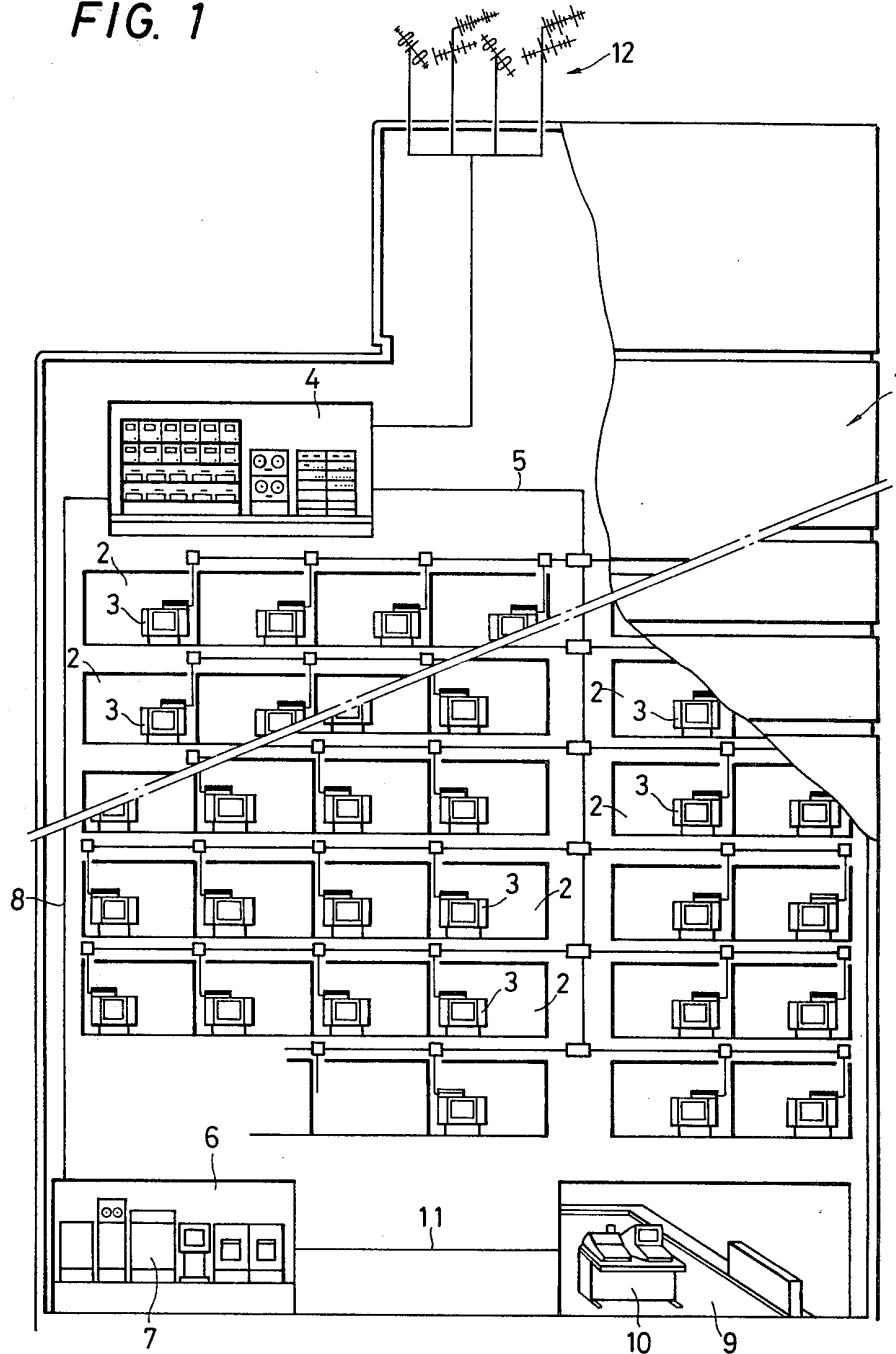


FIG. 1



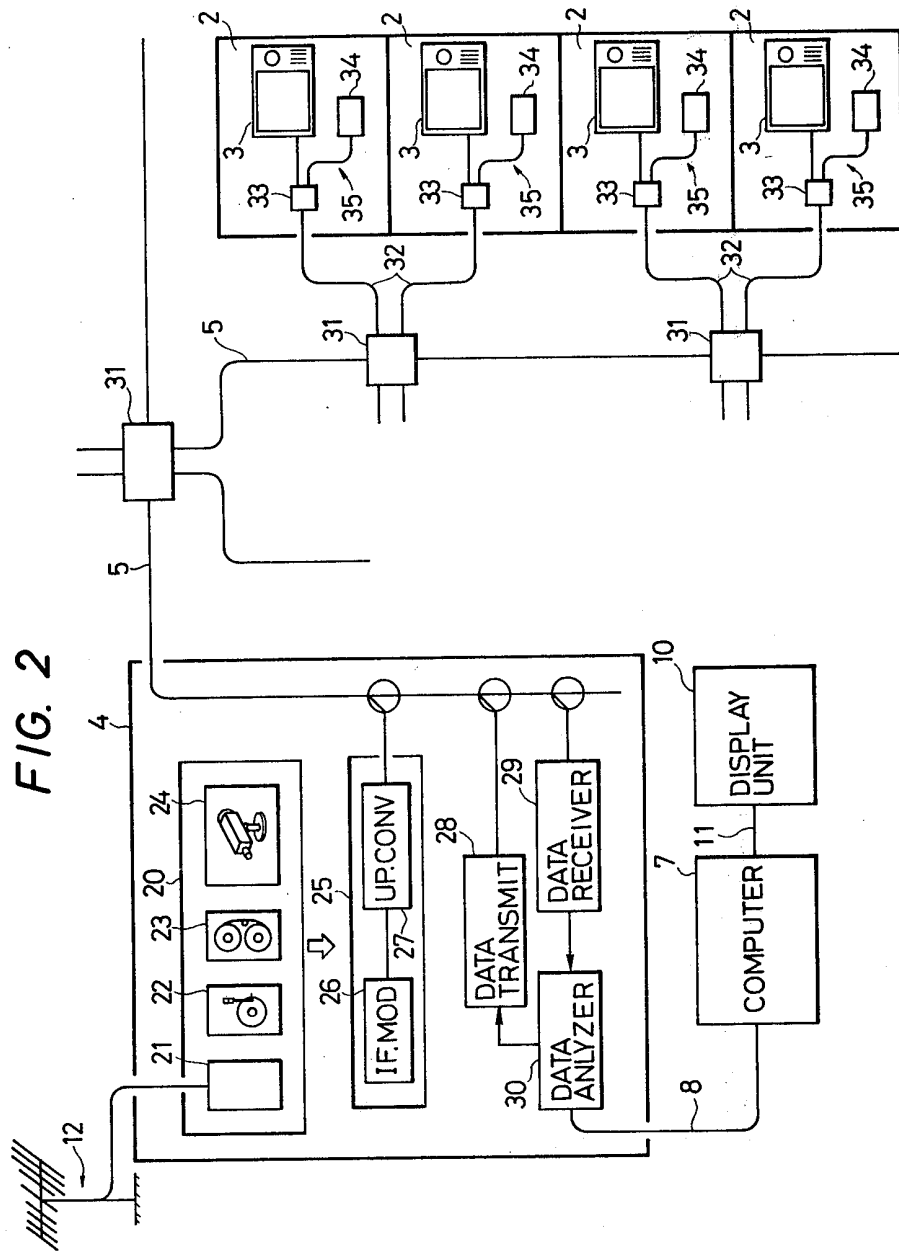


FIG. 3A

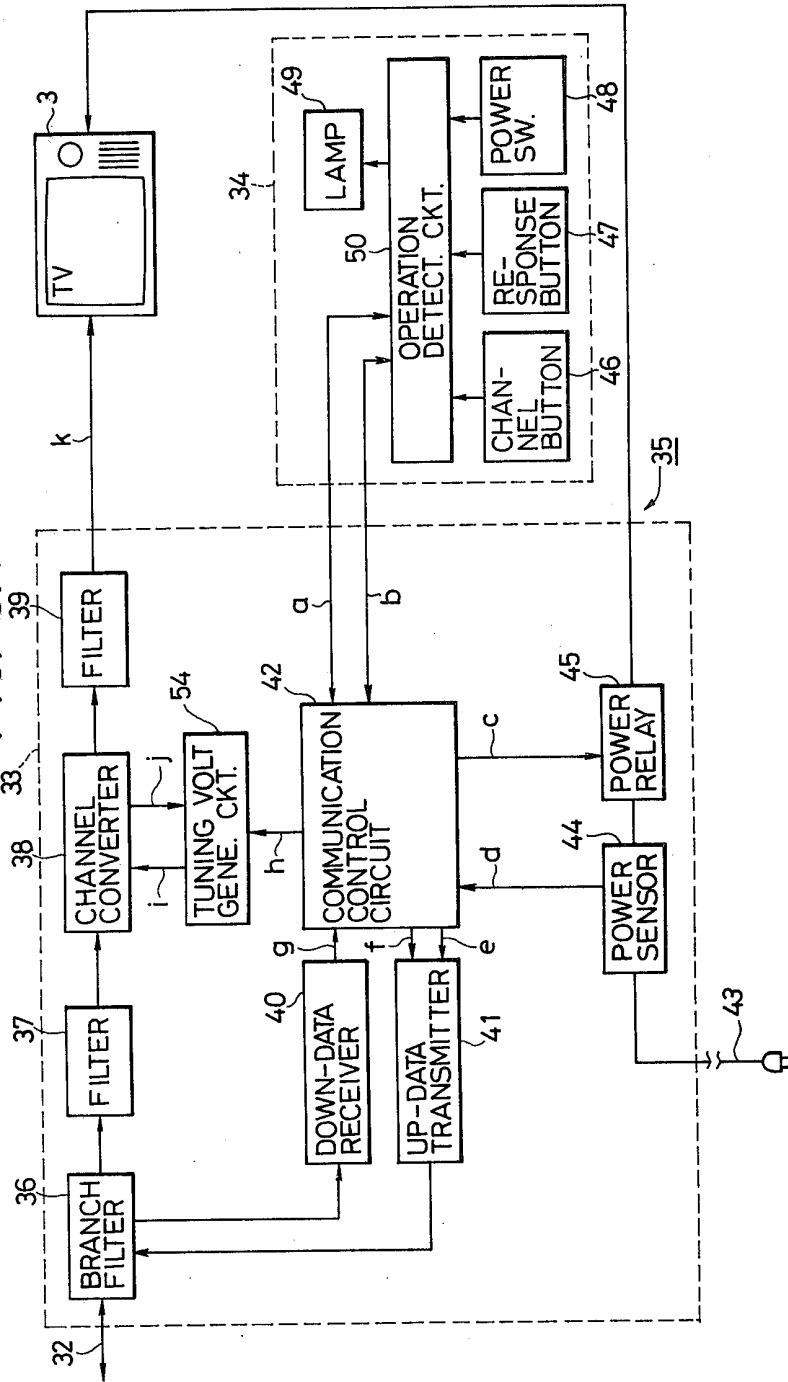
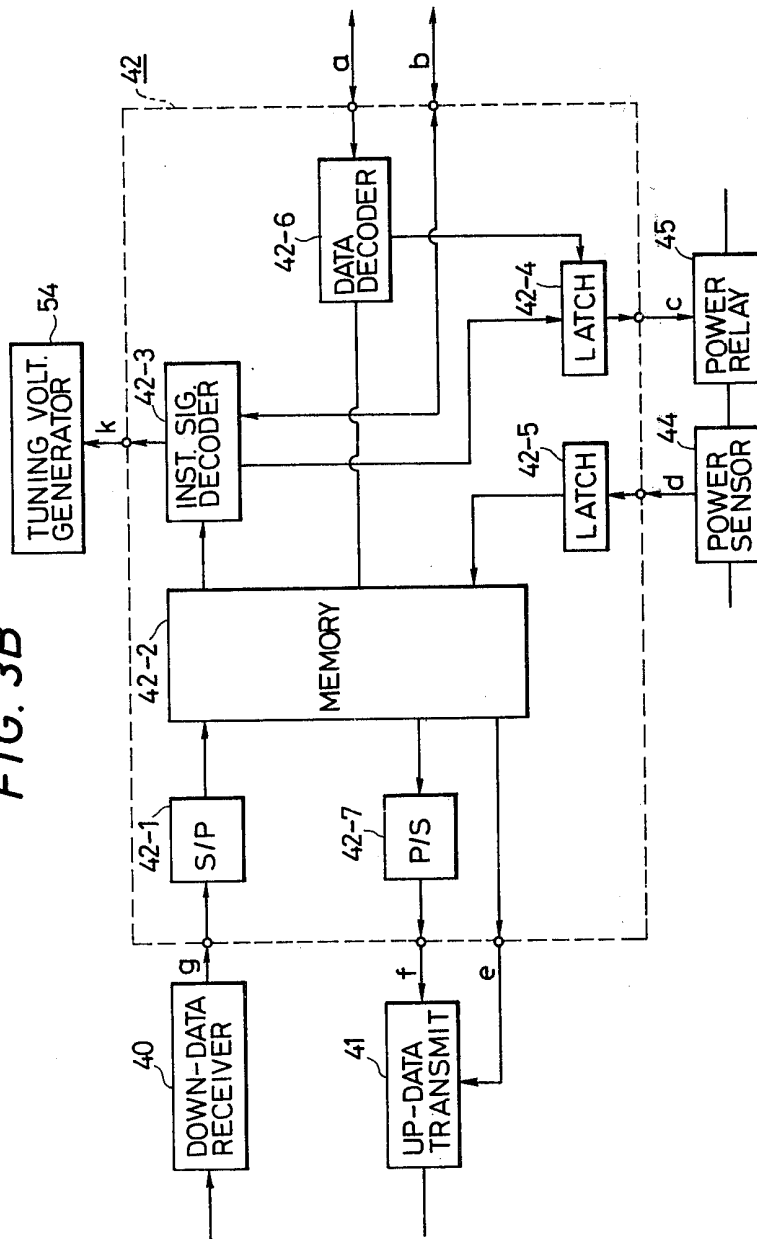


FIG. 3B



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