United States Patent [19]

Severson

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[54] **MICRO-PROGRAMMABLE SECURITY SYSTEM**

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[21] Appl. No.: **156,547**

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[51] Int. Cl.^{5} **G08B 29/00**

[52] U.S. Cl. **340/506;** 340/531; 340/539; 340/532; 340/533; 340/534

[58] Field of Search 340/506, 531, 532, 533, 340/539, 825.06, 825.69; 379/37, 39, 40, 51
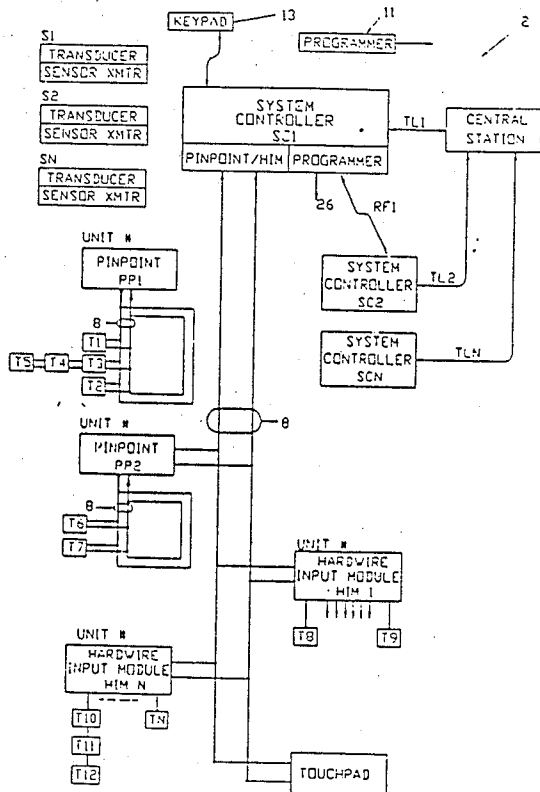
[56] **References Cited**

U.S. PATENT DOCUMENTS

3,927,404	12/1975	Cooper .	
4,361,832	11/1982	Cole	340/506
4,392,125	7/1983	Iwata	340/505
4,400,694	8/1983	Wong et al.	340/505
4,523,184	6/1985	Abel	340/531
4,581,606	4/1986	Mallory	340/505
4,660,024	4/1987	McMaster	340/506
4,688,183	8/1987	Carll et al.	340/506
4,692,742	9/1987	Raizen et al.	340/531
4,737,770	4/1988	Brunius et al.	340/506
4,749,985	6/1988	Corsberg	340/506

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[57] **ABSTRACT**

A security alarm network including a plurality of micro-processor-based, subscriber system controllers, wherein each controller is capable of responding to a plurality of distributed wireless and hardwired sensors/transducers and is programmable via user, central station and install-er-entered system and network parameters. Each sys-tem controller is operable to (a) monitor neighbor sys-tem communications and system identification data; (b) maintain a central station programmable identification listing of neighboring systems and, if communication malfunctions occur, communicate with the central sta-tion via one or more cooperating neighbor controllers; (c) self-learn the identification data of its distributed sensors; (d) maintain operator and central station-accessible event histories; (e) self-confirm predeter-mined emergency conditions; (f) regulate communica-tions with the central station relative to pre-pro-grammed, grouped, arming level dependent responses and system parameters; and (g) enable audible monitor-ing by the central station.
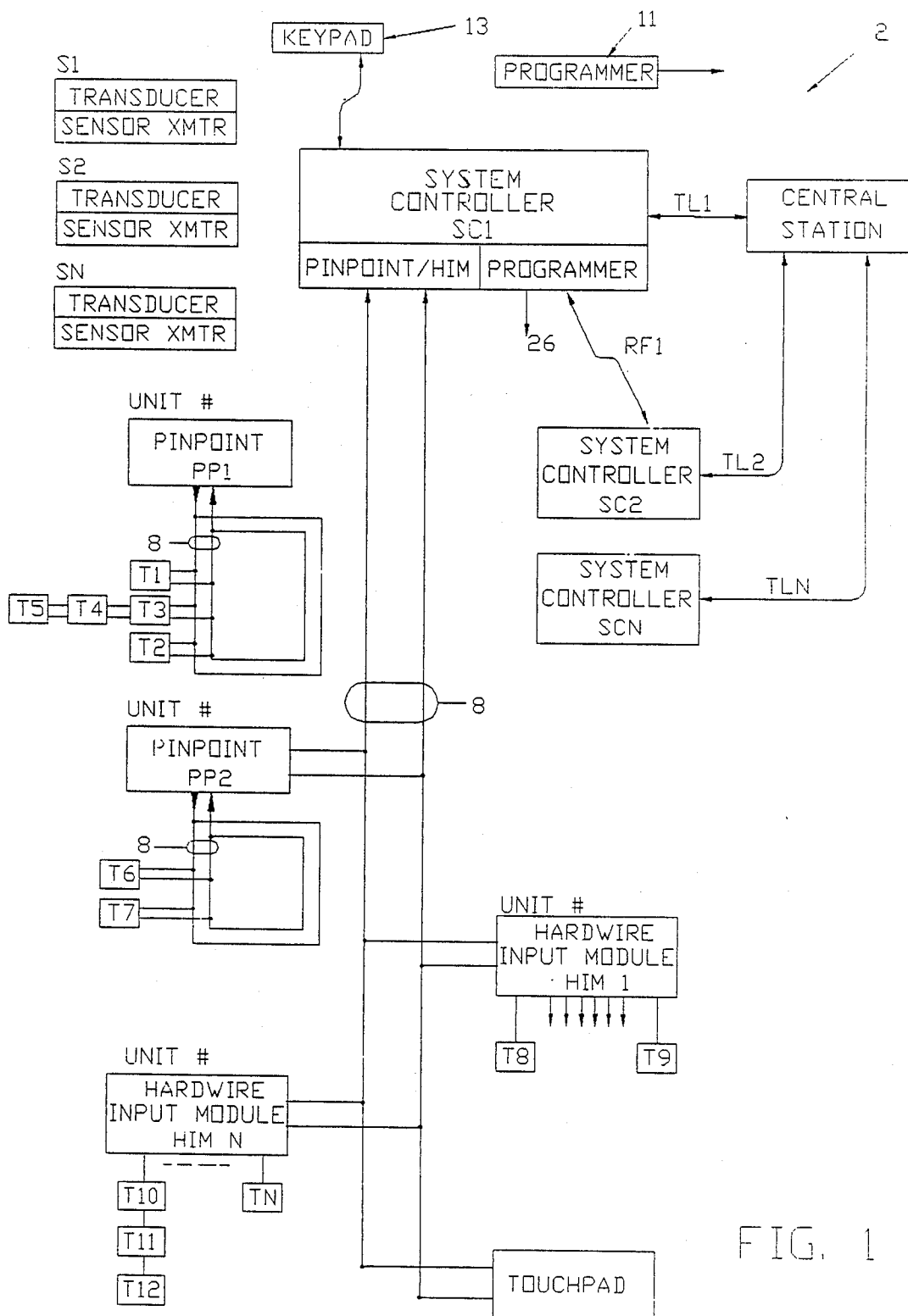
27 Claims, 18 Drawing Sheets

FIG. 1

FIG. 3a	FIG. 3b	FIG. 3c

FIG. 3

FIG. 2a	FIG. 2b	FIG. 2c
FIG. 2d	FIG. 2e	FIG. 2f
FIG. 2g	FIG. 2h	FIG. 2i

FIG. 2

FIG. 2a

FIG. 2b

DOCKET ALARM
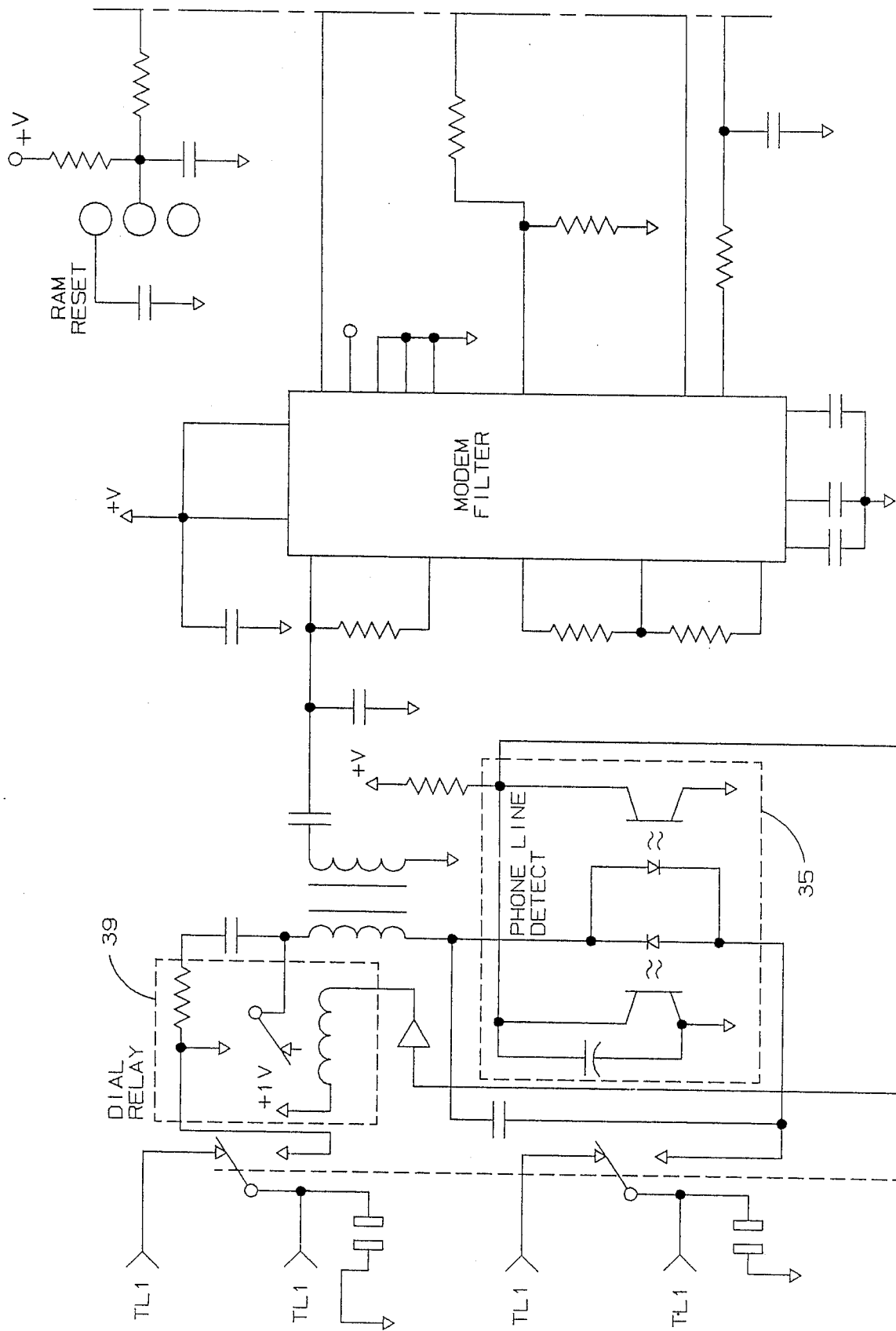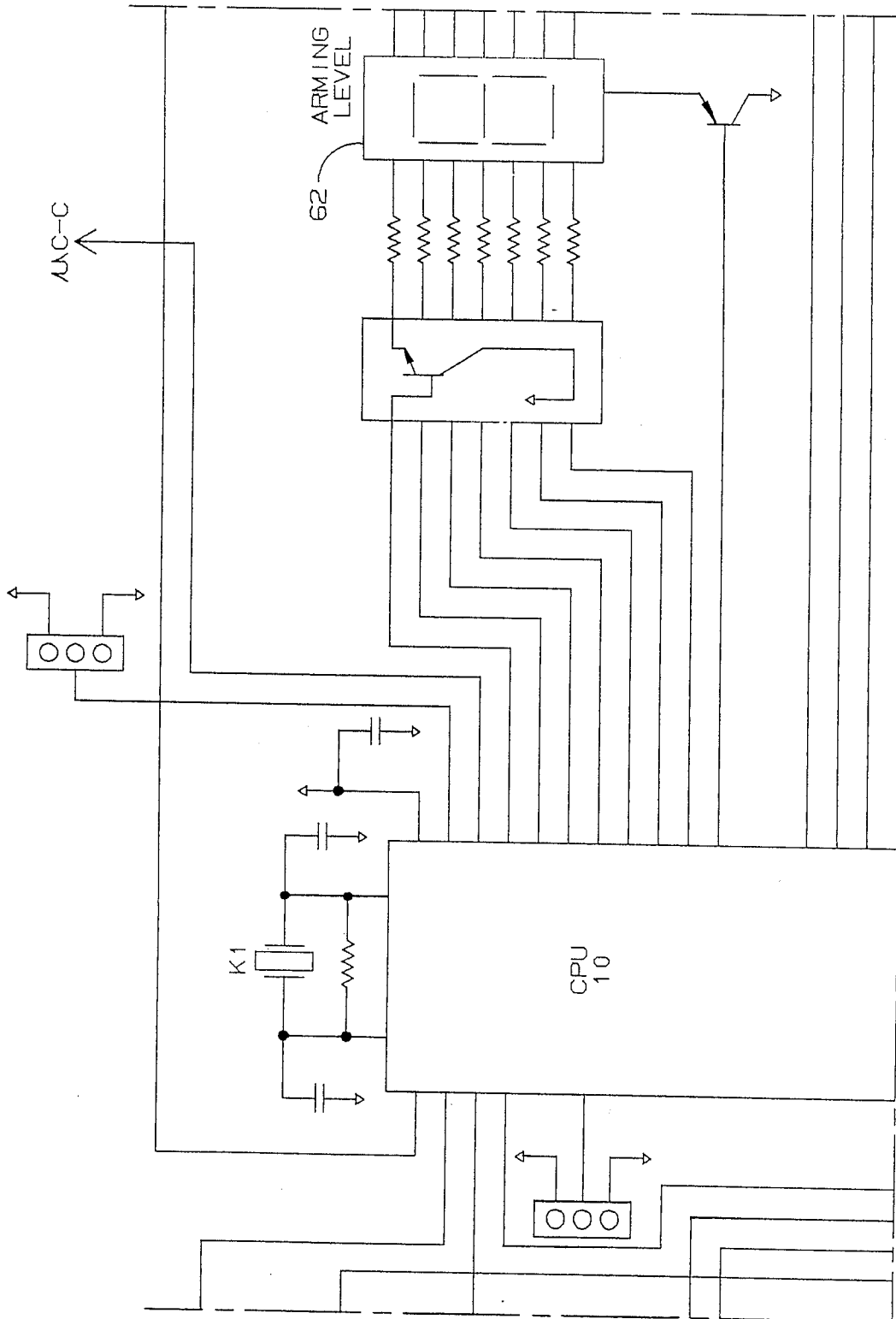
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