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**Haughawout et al.**

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(54) **SYSTEM AND METHOD FOR MONITORING  
REMOTE CONTROL TRANSMISSIONS**

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patent is extended or adjusted under 35  
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(51) **Int. Cl.**  
**G08B 1/08** (2006.01)

(52) **U.S. Cl.** ..... **340/539.1**; 340/825.22;  
340/825.72

(58) **Field of Classification Search** ..... 340/539.1,  
340/825.72, 825.22, 825.69, 825.57, 825.56;  
370/394

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,623,887 A 11/1986 Welles, II ..... 340/825.57

4,703,359 A *	10/1987	Rumbolt et al. ....	348/734
4,959,810 A	9/1990	Darbee et al. ....	364/900
5,235,414 A	8/1993	Cohen .....	358/84
5,410,326 A *	4/1995	Goldstein .....	348/734
5,481,256 A	1/1996	Darbee et al. ....	340/825.56
5,614,906 A	3/1997	Hayes et al. ....	341/176
5,959,751 A	9/1999	Darbee et al. ....	359/148
6,014,092 A	1/2000	Darbee et al. ....	341/23
6,223,348 B1 *	4/2001	Hayes et al. ....	725/152
6,225,938 B1	5/2001	Hayes et al. ....	341/176
6,496,927 B1	12/2002	McGrane et al. ....	713/1
6,747,568 B1 *	6/2004	Teskey .....	340/825.72
2002/0140571 A1 *	10/2002	Hayes et al. ....	340/825.72

\* cited by examiner

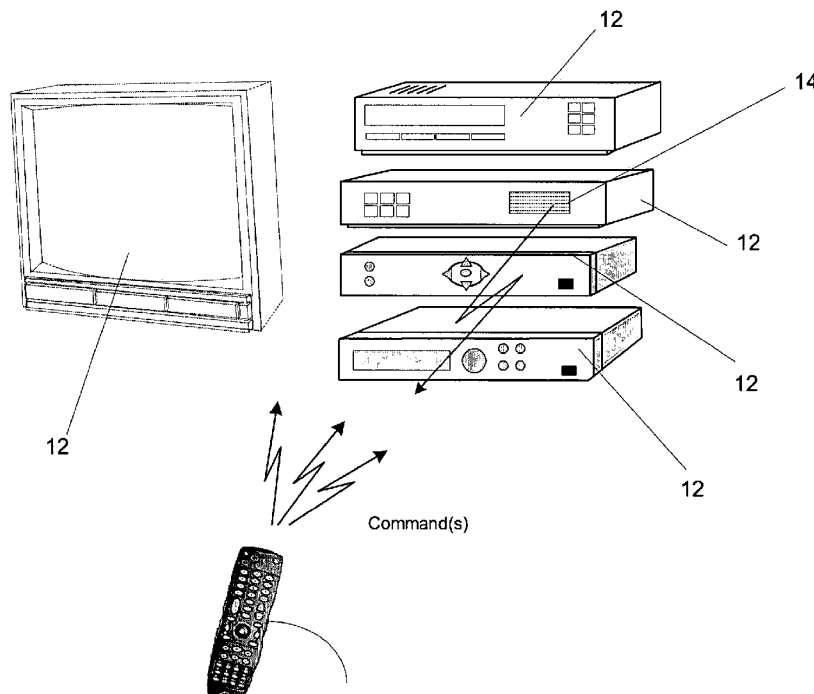
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(57) **ABSTRACT**

A remote control transmission monitoring system. A remote control has programming for transmitting a sequence of command codes and a command receiver has programming for determining if the transmission from the remote control included all of the command codes in the sequence of command codes. The programming further functions to generate a signal to cause corrective action to be taken and/or to notify a user that an unsuccessful transmission of the sequence of command codes occurred when the transmission from the remote control is determined to include less than all of the command codes in the sequence of command codes.

**41 Claims, 6 Drawing Sheets**



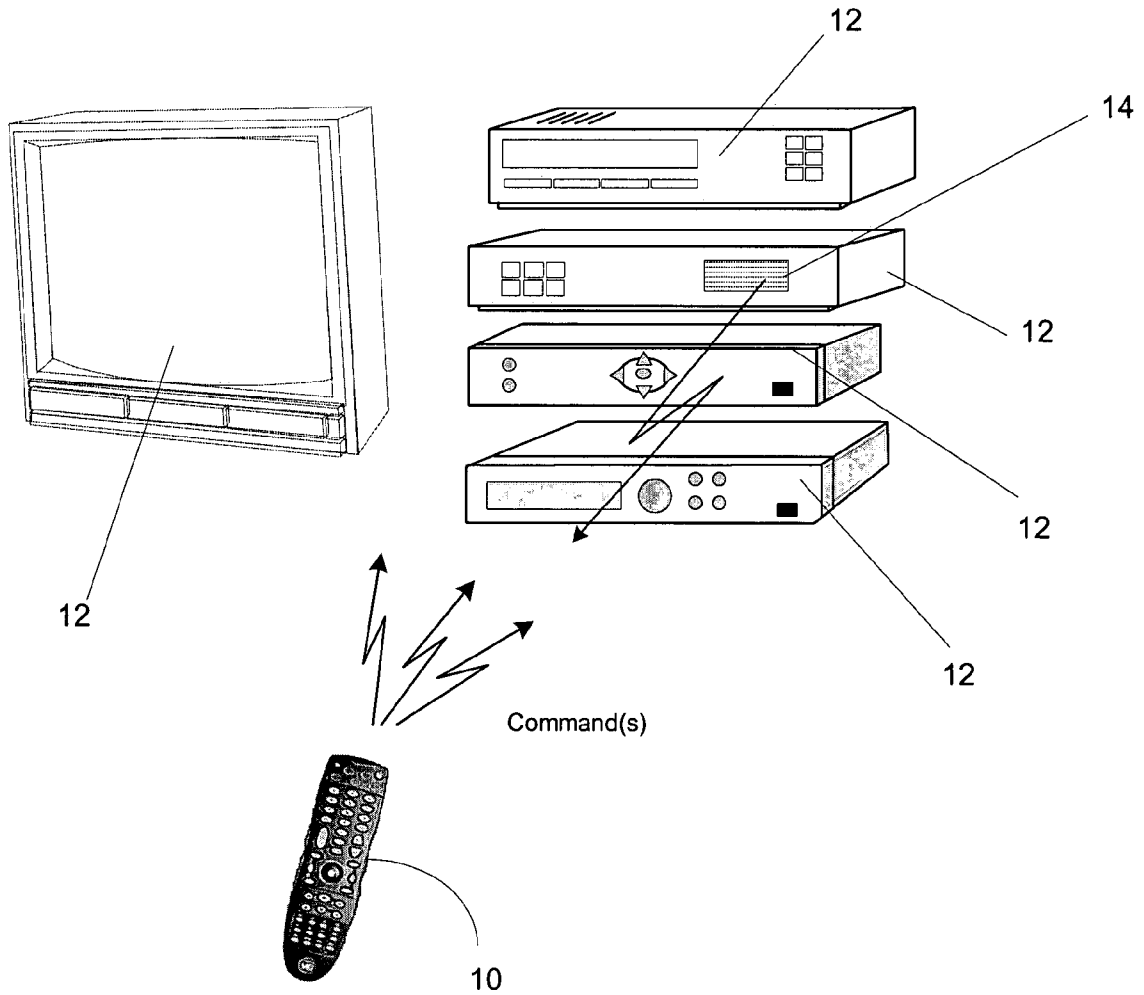


FIGURE 1

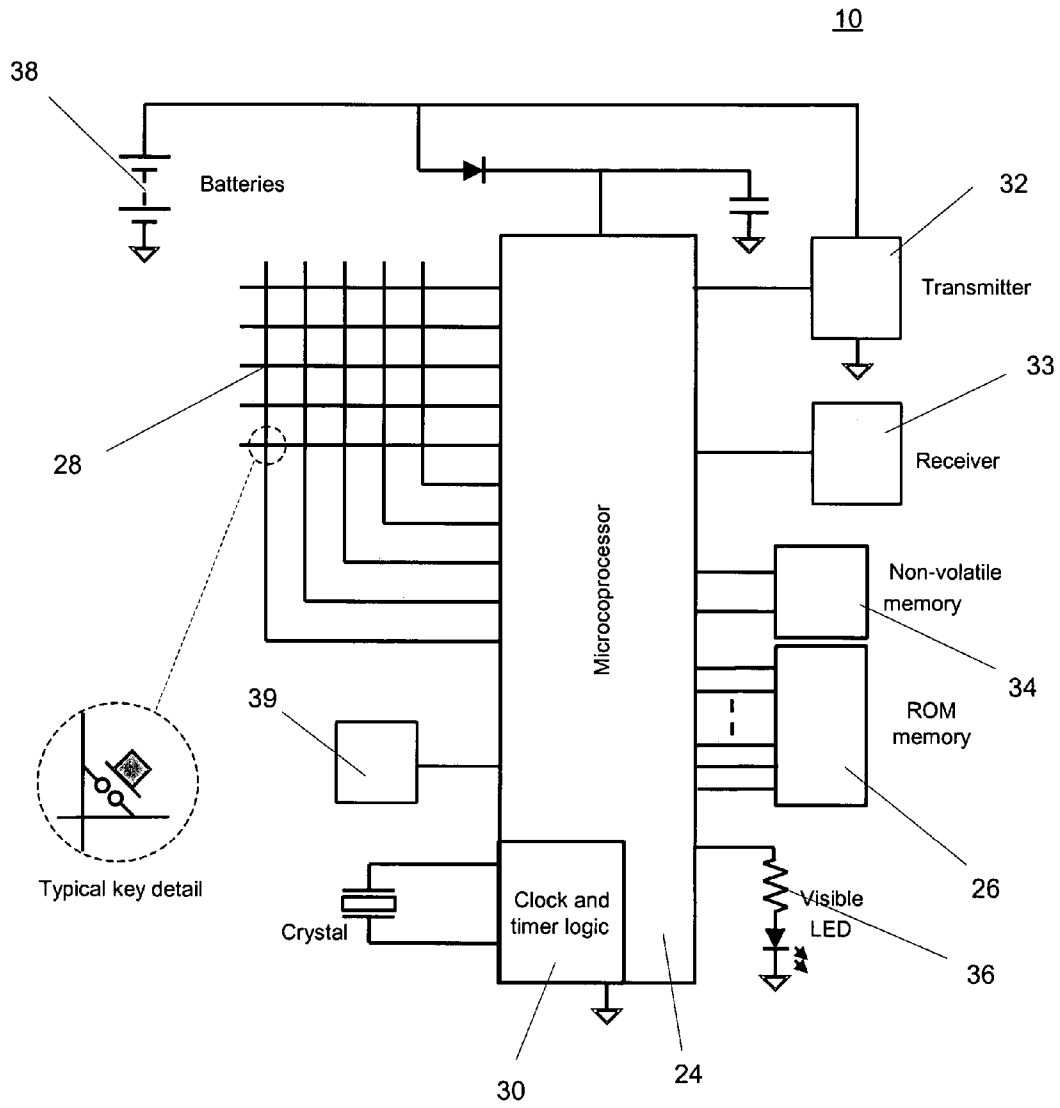


FIGURE 2

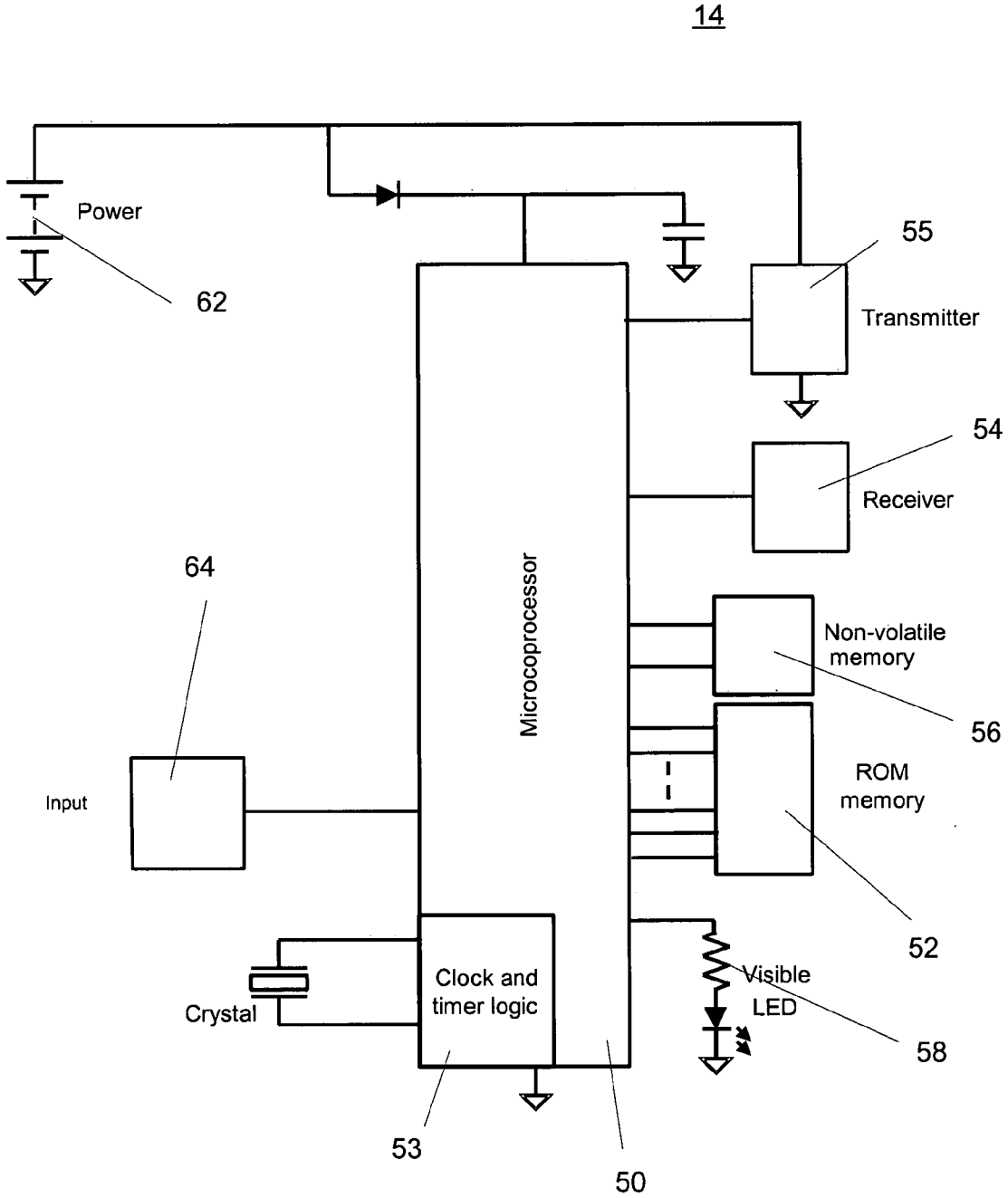


FIGURE 3

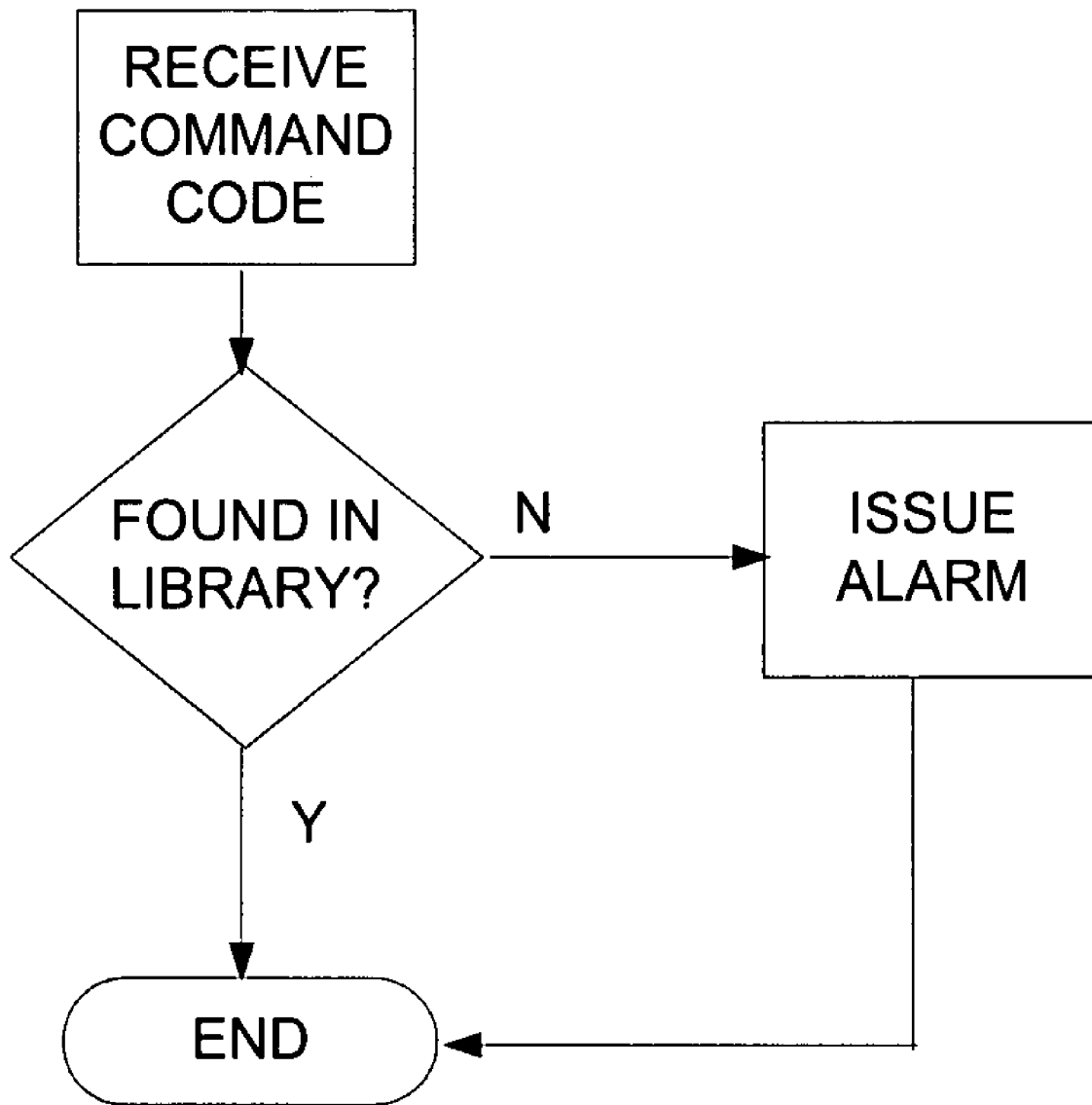


FIGURE 4

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