United States Patent [19]

Welles, II

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[54]	RECONFI	GURABLE REMOTE CONTROL	
[75]	Inventor:	Kenneth B. Welles, II, Schenectady, N.Y.	
[73]	Assignee:	General Electric Company, Schenectady, N.Y.	
[21]	Appl. No.:	610,377	
[22]	Filed:	May 15, 1984	
[58]		arch	
[56]		References Cited	
U.S. PATENT DOCUMENTS			
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ctady,	A reconfigurable remote control transmitter is disclosed that has the ability to learn, store and repeat the remote
:	control codes from any other infrared transmitter. The reconfigurable remote control transmitter includes an
	infrared receiver, a microprocessor, nonvolatile and
	scratch pad random access memories, and an infrared
	transmitter. The microprocessor application is divided
I 5/44	into four main categories: learning, storing, retransmit-
25.69;	ting, and user interface. In the learning process, the
,	reconfigurable remote control transmitter receives and
/194.1	decodes the transmissions from another remote control
25.69,	transmitter. The process is repeated at least twice for
194.1;	each key to make sure that it has been properly received

[57]

infrared receiver, a microprocessor, nonvolatile and scratch pad random access memories, and an infrared transmitter. The microprocessor application is divided into four main categories: learning, storing, retransmitting, and user interface. In the learning process, the reconfigurable remote control transmitter receives and decodes the transmissions from another remote control transmitter. The process is repeated at least twice for each key to make sure that it has been properly received and decoded. Once the data has been received and decoded, it is stored for later use. In order to do this, the received and decoded data is compressed so that it can fit into the nonvolatile memory. This process is repeated for each of the several remote control transmit-

ABSTRACT

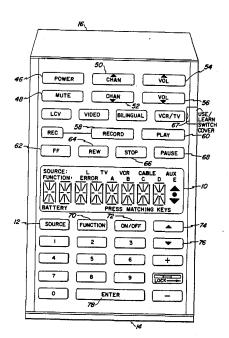
10 Claims, 13 Drawing Figures

ters that are to be replaced by the reconfigurable remote control transmitter. When the learning and storing op-

erations have been completed, the reconfigurable re-

mote control transmitter is ready to use.

Primary Examiner-Ulysses Weldon Assistant Examiner-Ralph E. Smith Attorney, Agent, or Firm-Marvin Snyder; James C. Davis, Jr.



U.S. Patent Nov. 18, 1986 Sheet 1 of 9 4,623,887 FIG. /

MODULATION SCHEMES

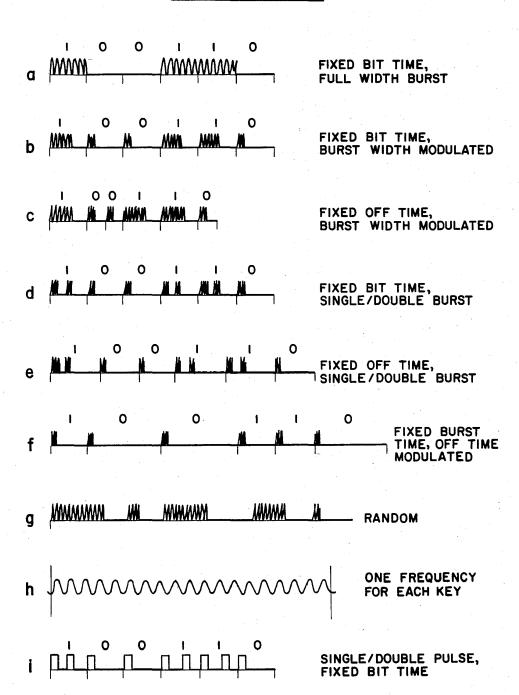
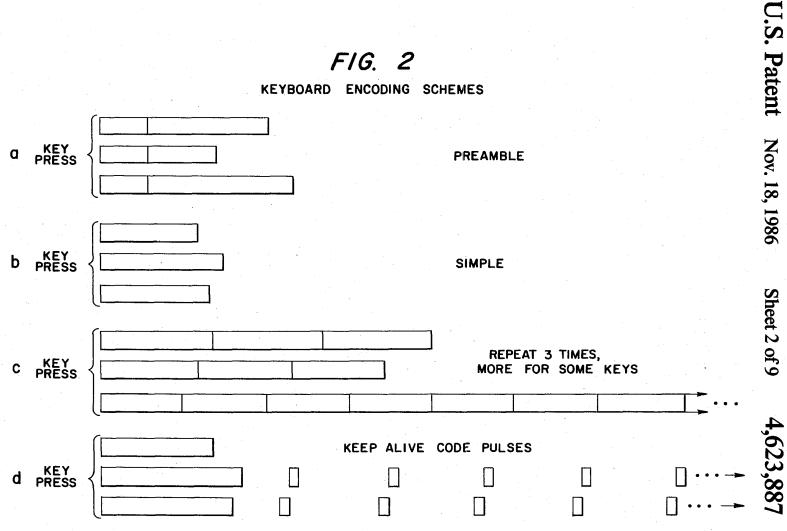
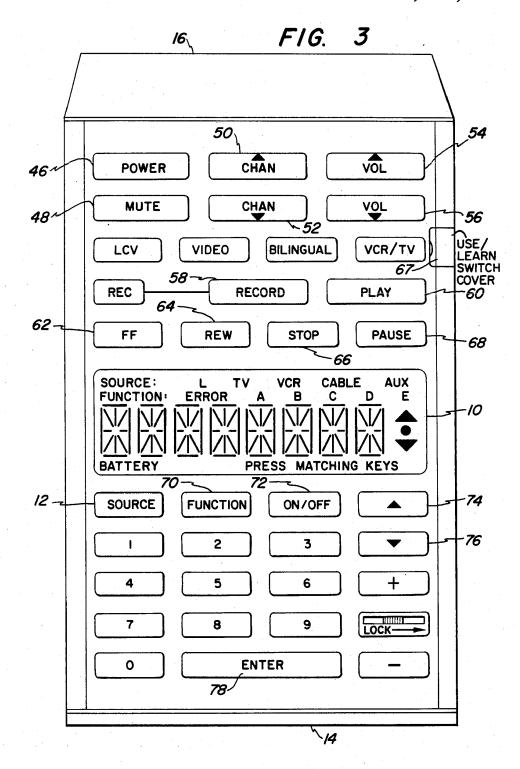
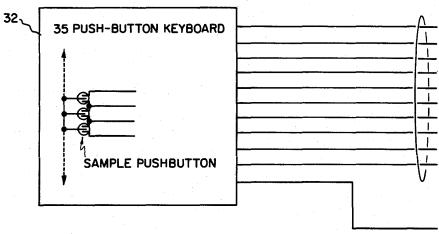


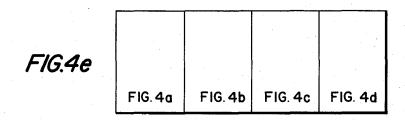
FIG. 2

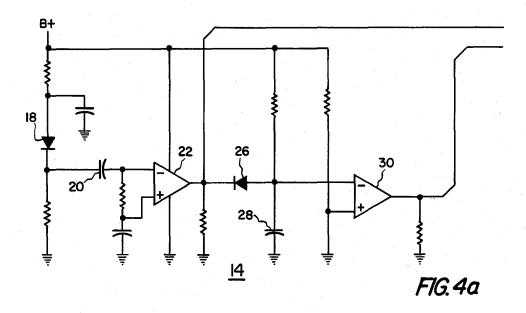












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