United States Patent [19]

[54] EXPANDABLE HOME AUTOMATION

Launey et al.

SYSTEM

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4,665,544 5/1987 Honda et al. 379/104

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[75] Inventors: Reuel O. Launey, Arlington, Va.; Peter A. Grendler, Silver Spring, Md.; Donald L. Packham, Fort Lauderdale, Fla.; James M. Battaglia, Kettering; Howard E.

Levine, Adelphi, both of Md.

Custom Command Systems, College [73] Assignee: Park, Md.

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Int. Cl.⁵ G05B 15/02 [52] **U.S. Cl.** **364/188**; 364/189; 340/825.37; 379/102

364/513.5; 379/102, 104, 79; 340/825.37, 825.69; 219/10.55 B, 506; 319/46, 47, 97, 98

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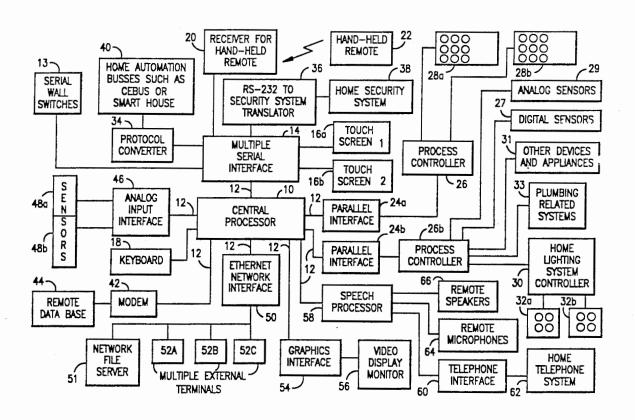
Primary Examiner—Jerry Smith Assistant Examiner-Paul Gordon

Attorney, Agent, or Firm-Dickstein, Shapiro & Morin

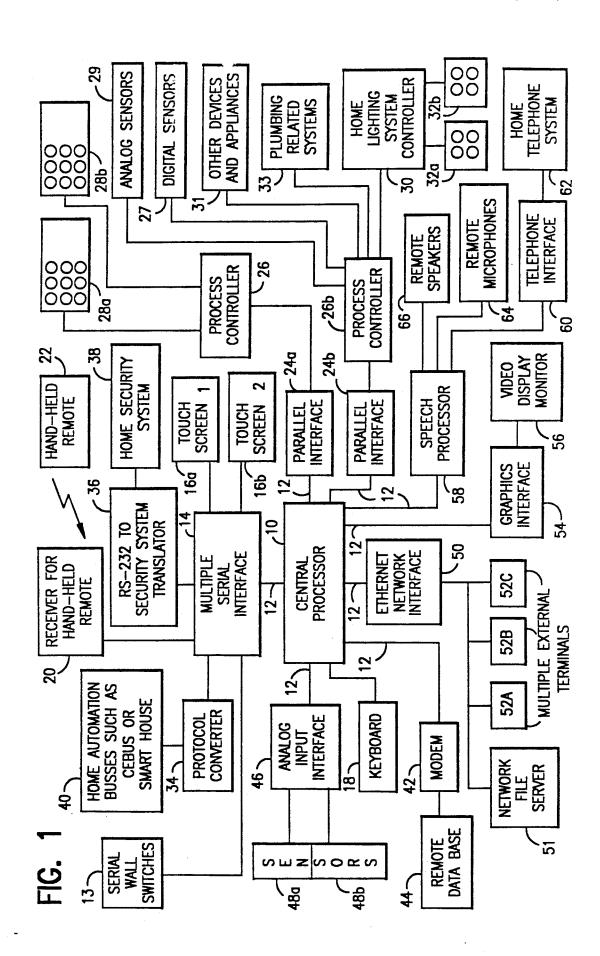
ABSTRACT

A system for and a method of providing an expandable home automation controller is disclosed which supports multiple numbers and multiple different types of data communications with both appliances and subsystems within the home as well as systems external to the home. The system is based upon a central processor, such as a microprocessor-based computer, and is connected by means of a data bus to control the various products and subsystems within a home or commercial building, such as lighting systems, security systems, various sensors, multiple external terminals, as well as to allow for the input of commands by a variety of means such as touchscreens, voice recognition systems, telephones, custom switches or any device capable of providing an input to a computer system. The system functions can be readily controlled by the user utilizing a high resolution graphics display and associated touchscreen interface.

20 Claims, 45 Drawing Sheets



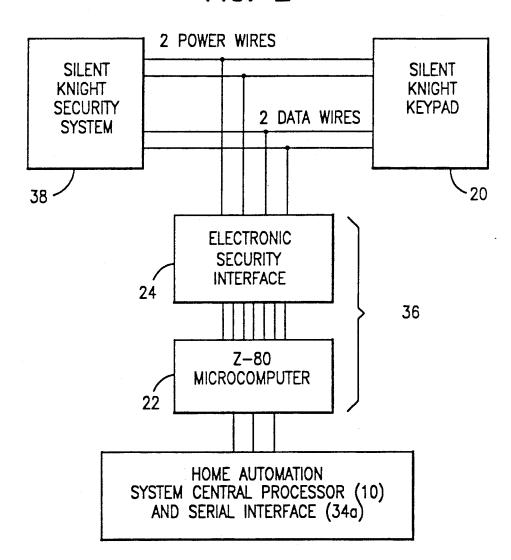
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FIG. 2

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[BACK]	THE ULTIMATE"	[QUIT]
	AUDIO / VIDEO	
	SECURITY MANAGEMENT	
	LIGHTING MOODS	
	INFORMATION	
	ENVIRONMENTAL CONTROL	
	CONVENIENCE FEATURES	
	SYSTEM CONFIGURATION	

FIG. 3A

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[BACK]	AUDIO / VIDEO	QUIT
	VCR	
	TELEVISION	
	AM / FM PRESETS	·
	COMPACT DISC	
	DISTRIBUTED AUDIO	
	AUDIO CONTROLS	
	SYSTEM OFF	

FIG. 3B



[BACK]	VCR	[QUIT]
	PLAY	
	STOP	
	FAST FORWARD	
	REWIND	
	SLOW-MOTION	
	FREEZE / FRAME ADVANCE	
	VCR SCHEDULING	

FIG. 3C

BACK	CD SELECTION QUIT
	CARMINA BURANA
	PICTURES AT AN EXHIBITION
	WAGNER SELECTIONS
	BEETHOVEN: PASTORALE
	BRANDENBURG CONCERTOS
	CD CONTROLS

FIG. 3D



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