United States Patent [19]

Burrell, IV

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[54] **METHOD OF USING A NINE KEY ALPHANUMERIC BINARY KEYBOARD COMBINED WITH A THREE KEY BINARY CONTROL KEYBOARD**

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[*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: **08/999,986**

[22] Filed: **Jul. 24, 1998**

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/898,727, Jul. 22, 1997.

[51] **Int. Cl.**^{7} **H03K 17/94**
[52] **U.S. Cl.** **341/23**; 341/22; 379/93.18; 379/368; 708/146; 345/169
[58] **Field of Search** 379/368, 369, 379/370, 93.18; 341/22, 23; 345/169; 708/146, 145

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[57] **ABSTRACT**

This invention relates to a novel way to use a twelve button telephone keypad for alphanumeric data entry. This invention also relates to a method of alphanumeric data entry using short duration or long duration binary key actuations using a simultaneous coding system and/or sequential coding system for communicating on a standard twelve key push-button telephone keypad. Two binary keys are used for an all capital letter mode or two binary keys for a lower-case letter mode, along with three binary keys for an upper-case letter mode, for producing full alphanumeric text, including punctuation, symbols and control.

24 Claims, 12 Drawing Sheets

FIG. 1

	A B C	D E F
1	**2**	**3**
G H I	J K L	M N O
4	**5**	**6**
P R S	T U V	W X Y
7	**8**	**9**
*	OPER **0**	**#**

(PRIOR ART)
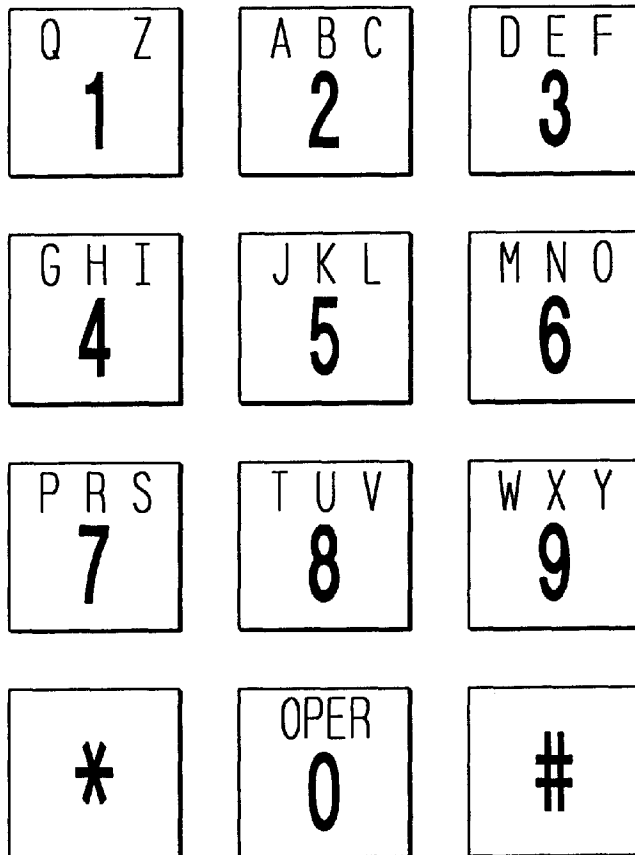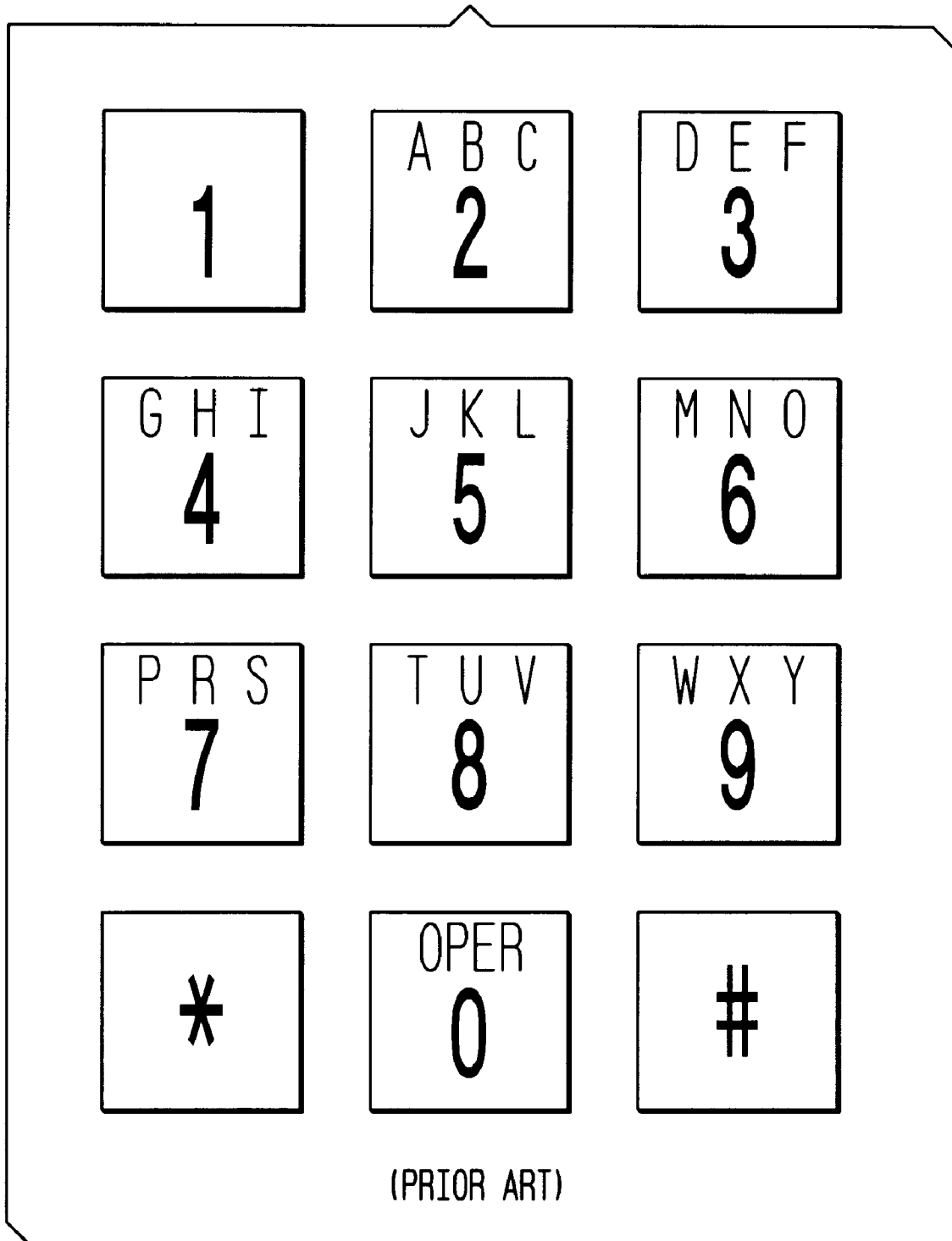
FIG. 2A

ALPHANUMERIC CHARACTER	CODING SEQUENCE
NUMERIC MODE	#
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
CLEAR ALL NUMERIC DATA	#
SEND	###
2-KEY ALPHABETIC MODE	*
A	2*
B	20
C	2#
D	3*
E	30
F	3#
G	4*
H	40
I	4#
J	5*
K	50
L	5#
M	6*
N	60

FIG. 2B

O	6#
P	7*
Q	1*
R	70
S	7#
T	8*
U	80
V	8#
W	9*
X	90
Y	9#
Z	1#
SPACE	10 OR 00
PERIOD	*0
BACKSPACE (ERASE) CONTINUE	**
PUNCTUATION MODE 1-0	*# (+ ENTRY)
?	(*#) 1
'	(*#) 2
!	(*#) 3
"	(*#) 4
'	(*#) 5
"	(*#) 6
(	(*#) 7
;	(*#) 8
)	(*#) 9
:	(*#) 0
NUMERIC MODE	#0
ALPHABETIC MODE	*
SEND	###

FIG. 3
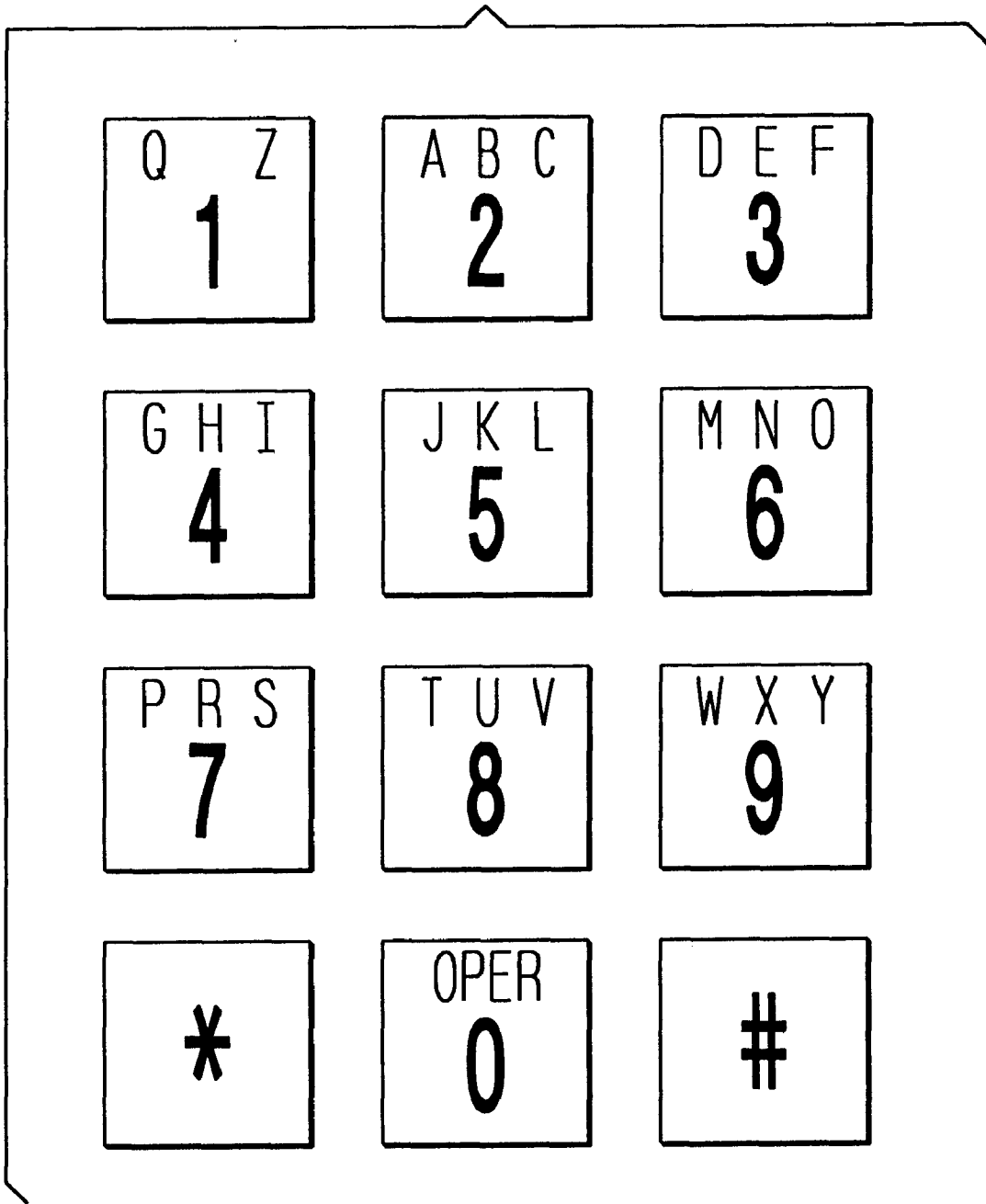
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