

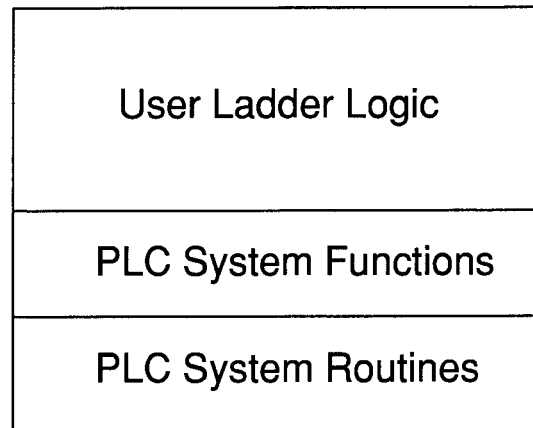


FIG. 1

(Prior Art)

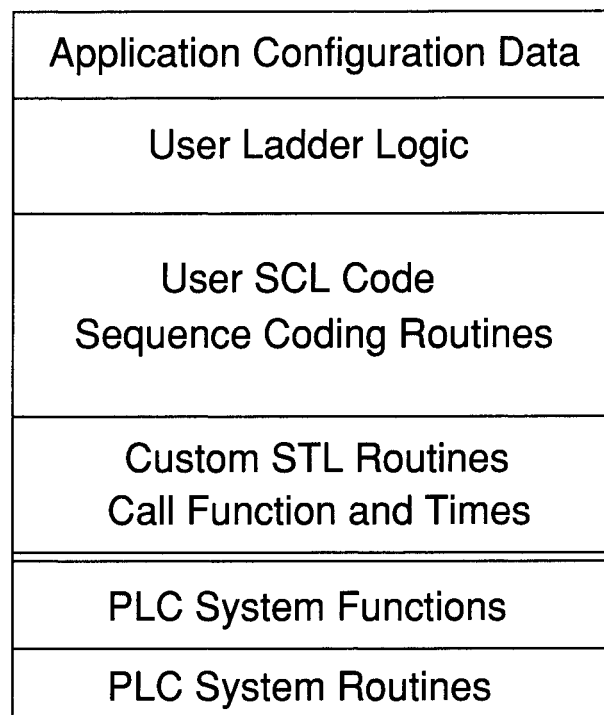
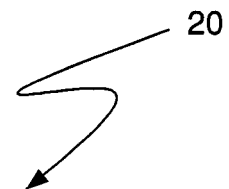


FIG .2

(Prior Art)



Configuration Data Block
Sequence Data Blocks
User Ladder Logic Main Logic Loop
User SCL Code Analog Scaling Sequence Interpreter Alarming
PLC System Functions
PLC System Routines

FIG. 3

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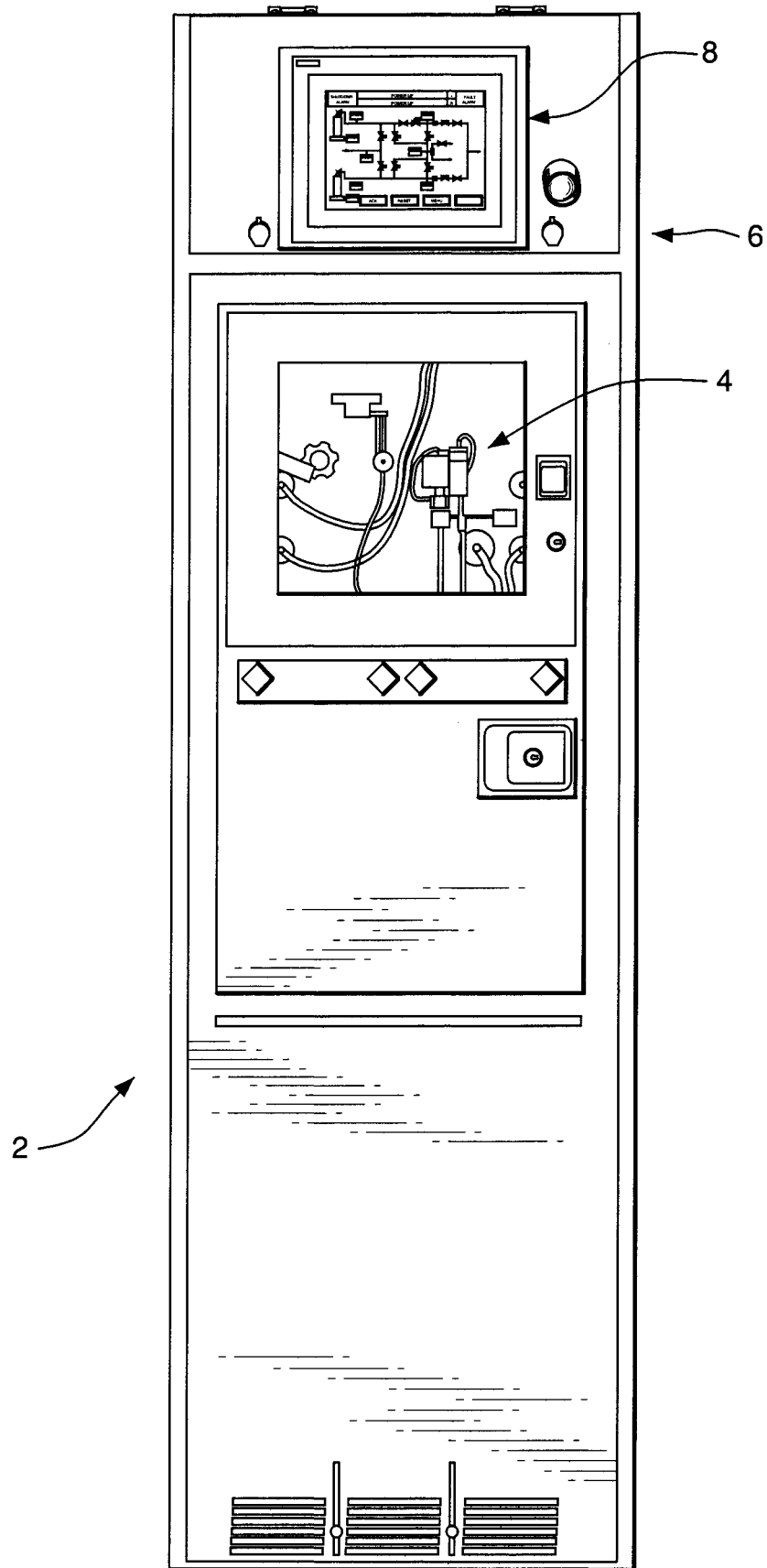


FIG. 4

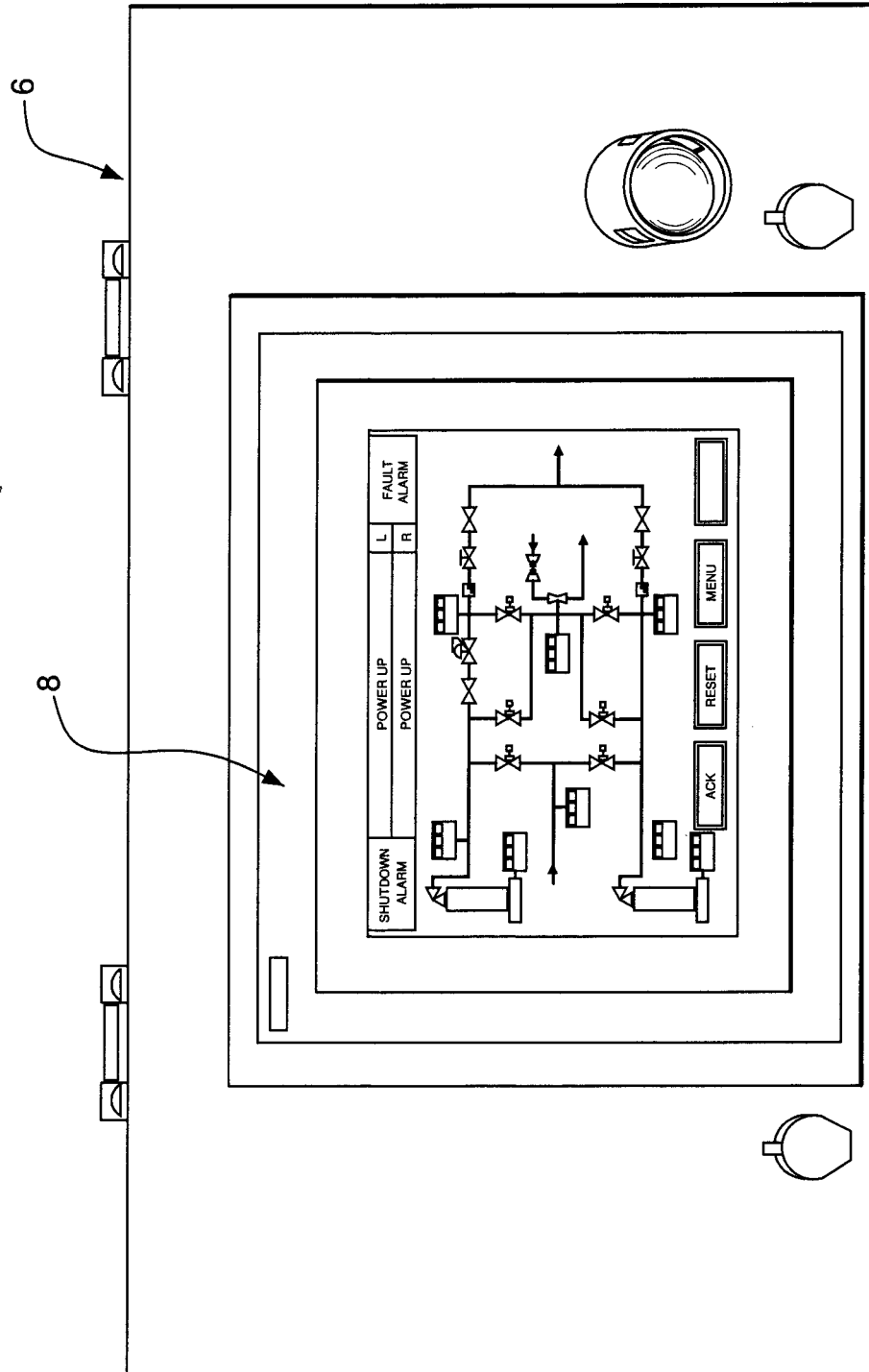


FIG. 5

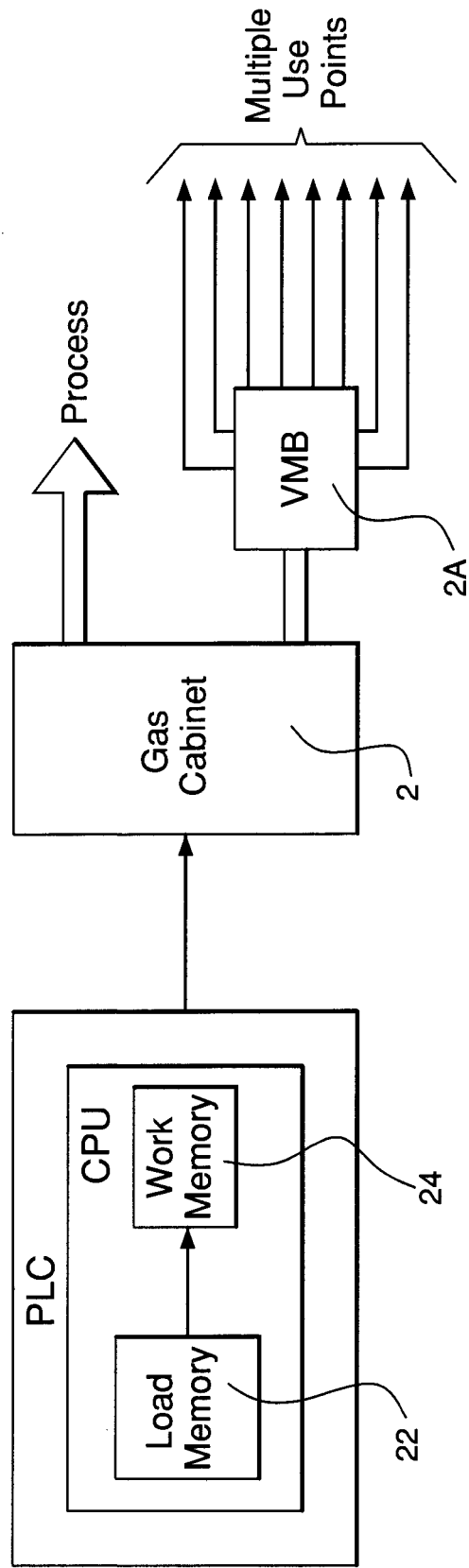


FIG. 6

Load Memory

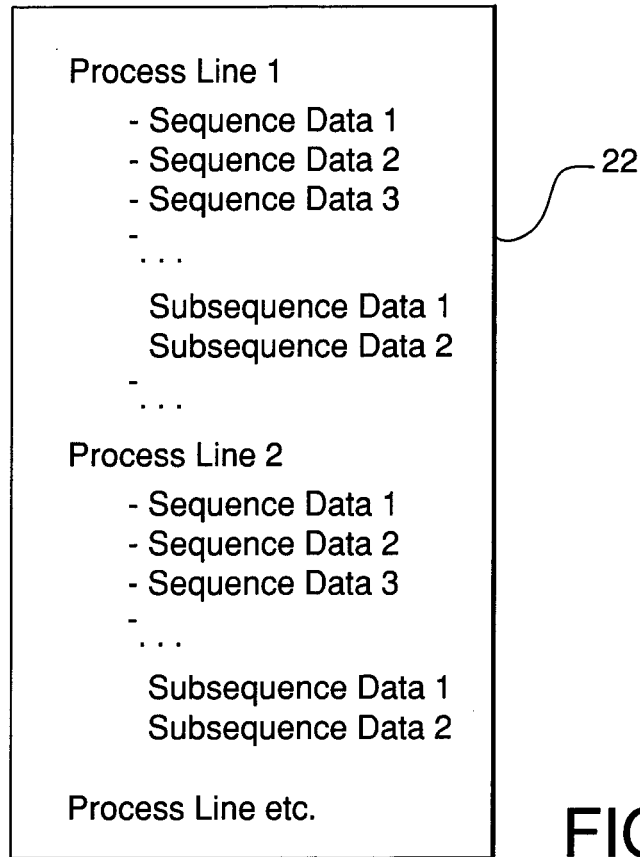


FIG. 7

Work Memory

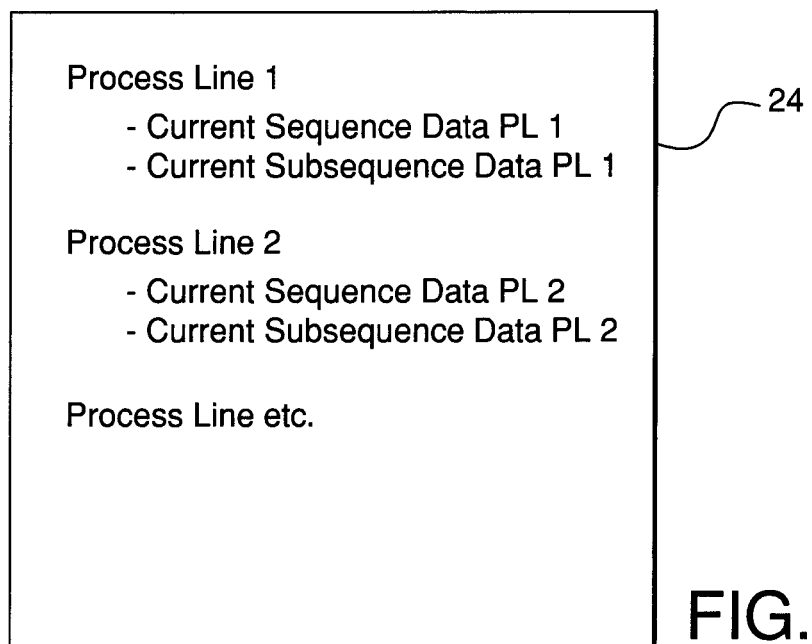


FIG. 10

Sequence Command Structure		
Name	Data type	Size (bytes)
Command	char	1
Param 1	byte	1
Param 2	byte	1
Param 3	byte	1
OpCode 1	byte	1
OpCode 2	byte	1
	Total:	6

Command = Command indicator
 Param1, Param2, Param3 = three parameters
 OpCode 1, OpCode2 = two option codes

FIG.8

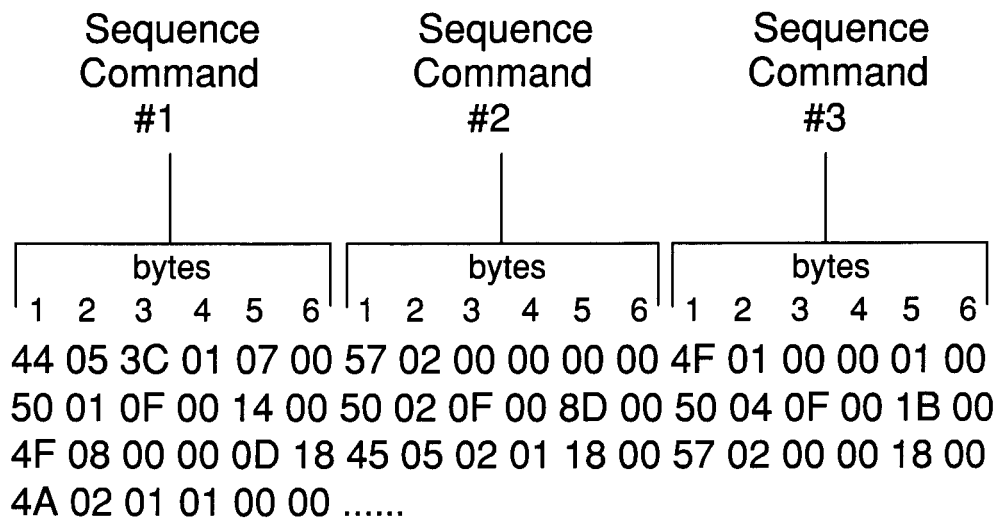


FIG. 9

Option Codes (ConfigData.OptionCode[Num])

OpCode #	Description	<u>Setting</u>	
		<u>YES</u>	<u>NO</u>
1	= Valve A present	1 - 1h	129 - 81h
2	= Valve B present	2 - 2h	130 - 82h
3	= Valve C present	3 - 3h	131 - 83h
4	= Valve D present	4 - 4h	132 - 84h
5	= Valve E present	5 - 5h	133 - 85h
6	= PT A present	6 - 6h	134 - 86h
7	= PT B present	7 - 7h	135 - 87h
8	= PT C present	8 - 8h	136 - 88h
9	= PT D present	9 - 9h	137 - 89h
10	= PT E present	10 - Ah	138 - 8Ah
11	= AX0	11 - Bh	139 - 8Bh
12	= Internal purge option	12 - Ch	140 - 8Ch
13	= AirOp cylinder option	13 - Dh	141 - 8Dh
14	= Temp option	14 - Eh	142 - 8Eh
15	= Flammable option	15 - Fh	143 - 8Fh
16	= Barcode option	16 - 10h	144 - 90h
17	= Regulator present	17 - 11h	145 - 91h
18	= Flow Switch option	18 - 12h	146 - 92h
19	= Purifier present	19 - 13h	147 - 93h
20	= Scale A present	20 - 14h	148 - 94h
21	= Scale B present	21 - 15h	149 - 95h
22	= Option Code #22	22 - 16h	150 - 96h
23	= Option Code #23	23 - 17h	151 - 97h
24	= Option Code #24	24 - 18h	152 - 98h
25	= Option Code #25	25 - 19h	153 - 99h
26	= Option Code #26	26 - 1Ah	154 - 9Ah
27	= Option Code #27	27 - 1Bh	155 - 9Bh
28	= Option Code #28	28 - 1Ch	156 - 9Ch
29	= Option Code #29	29 - 1Dh	157 - 9Dh
30	= Option Code #30	30 - 1Eh	158 - 9Eh
31	= Option Code #31	31 - 1Fh	159 - 9Fh
32	= Option Code #32	32 - 20h	160 - A0h

FIG. 11A

Option Codes (ConfigData.OptionCode[Num]) (continued)

OpCode #	Description	<u>Setting</u>	
		<u>YES</u>	<u>NO</u>
33 = Option Code #33	33 - 21h	161 - A1h	
34 = Option Code #34	34 - 22h	162 - A2h	
35 = Option Code #35	35 - 23h	163 - A3h	
36 = Option Code #36	36 - 24h	164 - A4h	
37 = Option Code #37	37 - 25h	165 - A5h	
38 = Option Code #38	38 - 26h	166 - A6h	
39 = Option Code #39	39 - 27h	167 - A7h	
40 = Option Code #40	40 - 28h	168 - A8h	
41 = Option Code #41	41 - 29h	169 - A9h	
42 = Option Code #42	42 - 2Ah	170 - AAh	
43 = Option Code #43	43 - 2Bh	171 - ABh	
44 = Option Code #44	44 - 2Ch	172 - ACh	
45 = Option Code #45	45 - 2Dh	173 - ADh	
46 = Option Code #46	46 - 2Eh	174 - AEh	
47 = Option Code #47	47 - 2Fh	175 - AFh	
48 = Option Code #48	48 - 30h	176 - B0h	
49 = Option Code #49	49 - 31h	177 - B1h	
50 = Option Code #50	50 - 32h	178 - B2h	
51 = Option Code #51	51 - 33h	179 - B3h	
52 = Option Code #52	52 - 34h	180 - B4h	
53 = Option Code #53	53 - 35h	181 - B5h	
54 = Option Code #54	54 - 36h	182 - B6h	
55 = Option Code #55	55 - 37h	183 - B7h	
56 = Option Code #56	56 - 38h	184 - B8h	
57 = Option Code #57	57 - 39h	185 - B9h	
58 = Option Code #58	58 - 3Ah	186 - BAh	
59 = Option Code #59	59 - 3Bh	187 - BBh	
60 = Option Code #60	60 - 3Ch	188 - BCh	
61 = Option Code #61	61 - 3Dh	189 - BDh	
62 = Option Code #62	62 - 3Eh	190 - BEh	
63 = Option Code #63	63 - 3Fh	191 - BFh	
64 = Option Code #64	64 - 40h	192 - C0h	

FIG. 11B

Option Codes (ConfigData.OptionCode[Num]) (continued)

OpCode #	Description	Setting	
		YES	NO
65 = Option Code #65		65 - 41h	193 - C1h
66 = Option Code #66		66 - 42h	194 - C2h
67 = Option Code #67		67 - 43h	195 - C3h
68 = Option Code #68		68 - 44h	196 - C4h
69 = Option Code #69		69 - 45h	197 - C5h
70 = Option Code #70		70 - 46h	198 - C6h
71 = Option Code #71		71 - 47h	199 - C7h
72 = Option Code #72		72 - 48h	200 - C8h
73 = Option Code #73		73 - 49h	201 - C9h
74 = Option Code #74		74 - 4Ah	202 - CAh
75 = Option Code #75		75 - 4Bh	203 - CBh
76 = Option Code #76		76 - 4Ch	204 - CCh
77 = Option Code #77		77 - 4Dh	205 - CDh
78 = Option Code #78		78 - 4Eh	206 - CEh
79 = Option Code #79		79 - 4Fh	207 - CFh
80 = Option Code #80		80 - 50h	208 - D0h
81 = Option Code #81		81 - 51h	209 - D1h
82 = Option Code #82		82 - 52h	210 - D2h
83 = Option Code #83		83 - 53h	211 - D3h
84 = Option Code #84		84 - 54h	212 - D4h
85 = Option Code #85		85 - 55h	213 - D5h
86 = Option Code #86		86 - 56h	214 - D6h
87 = Option Code #87		87 - 57h	215 - D7h
88 = Option Code #88		88 - 58h	216 - D8h
89 = Option Code #89		89 - 59h	217 - D9h
90 = Option Code #90		90 - 5Ah	218 - DAh
91 = Option Code #91		91 - 5Bh	219 - DBh
92 = Option Code #92		92 - 5Ch	220 - DCh
93 = Option Code #93		93 - 5Dh	221 - DDh
94 = Option Code #94		94 - 5Eh	222 - DEh
95 = Option Code #95		95 - 5Fh	223 - DFh
96 = Option Code #96		96 - 60h	224 - E0h

FIG. 11C

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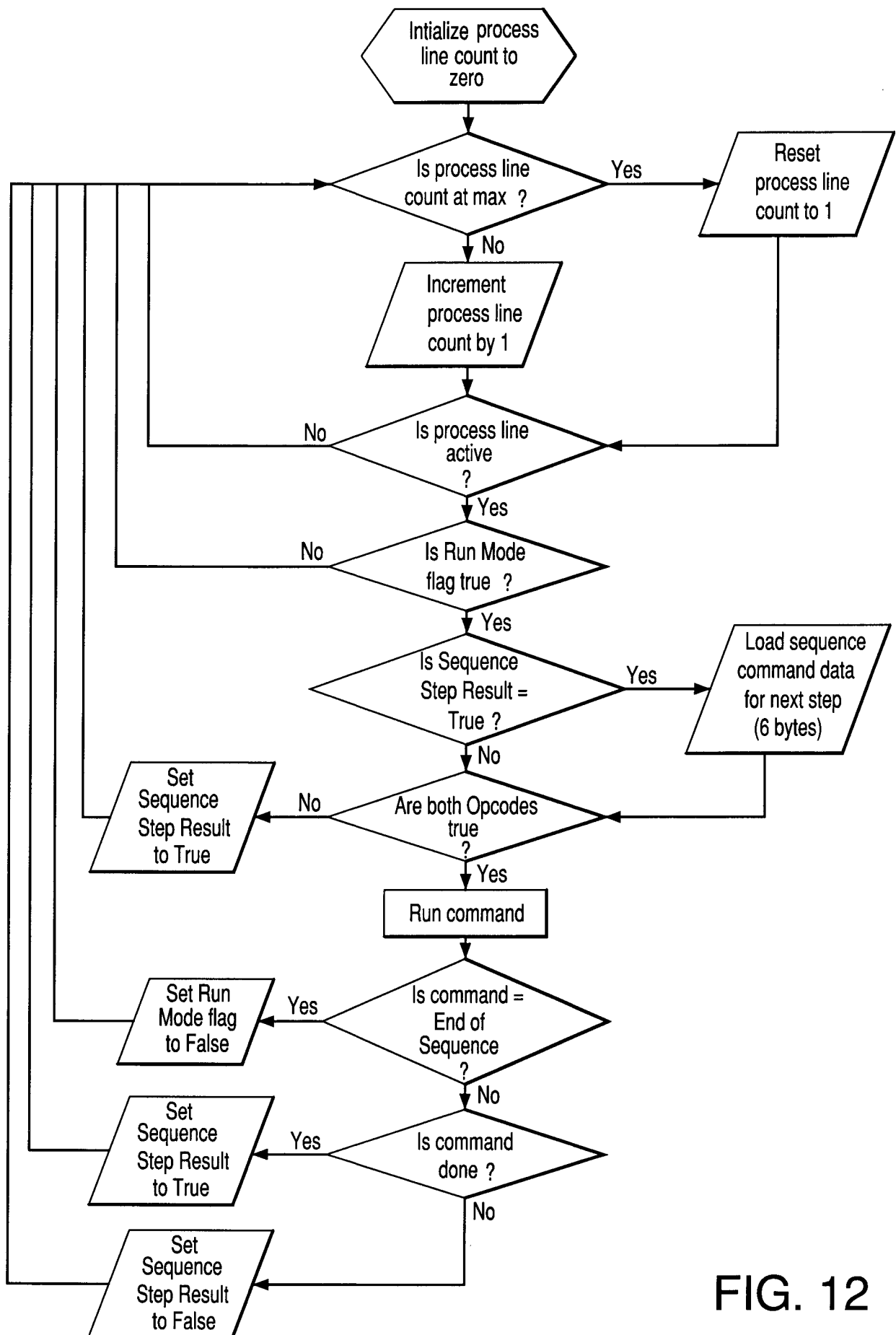


FIG. 12