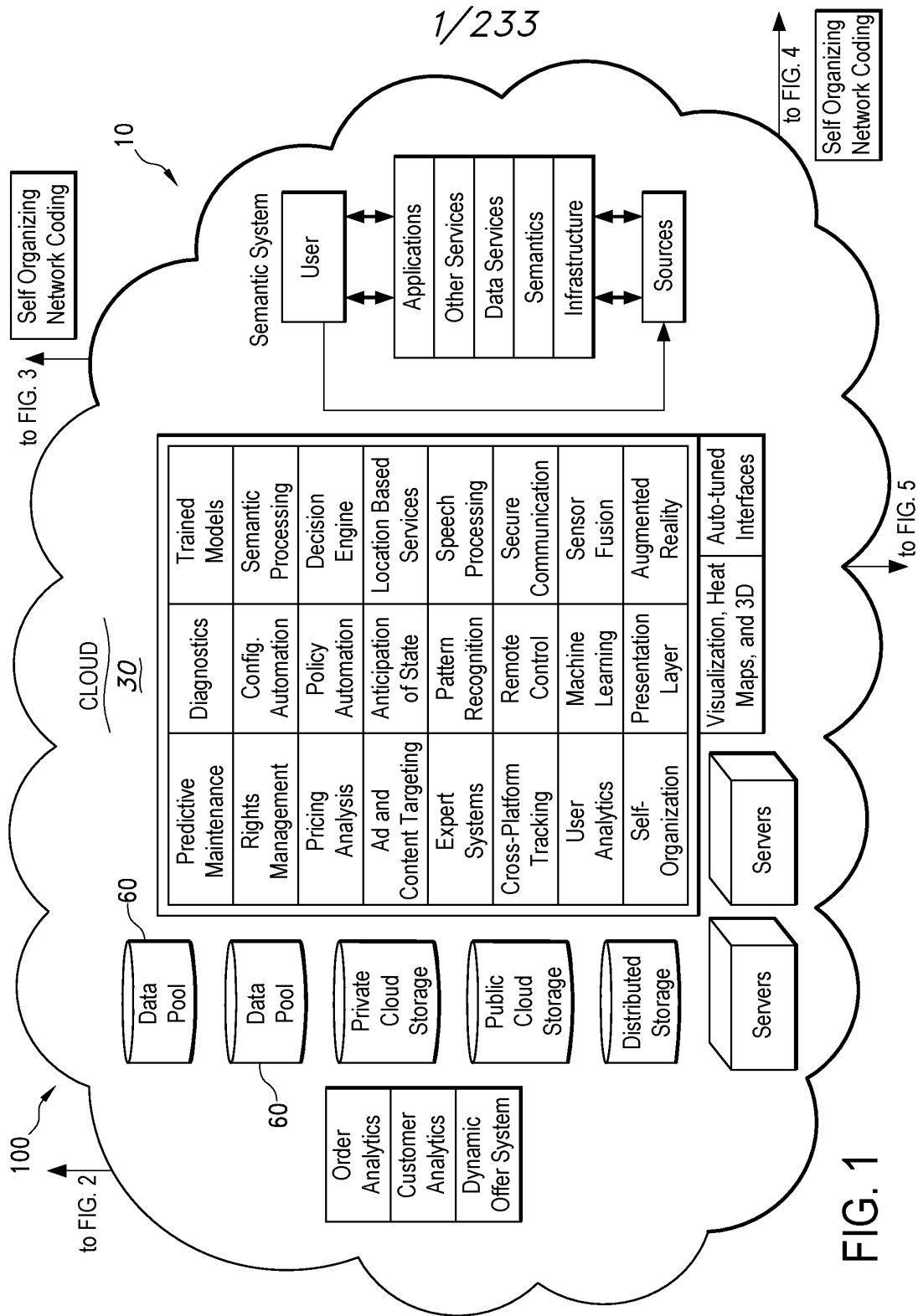




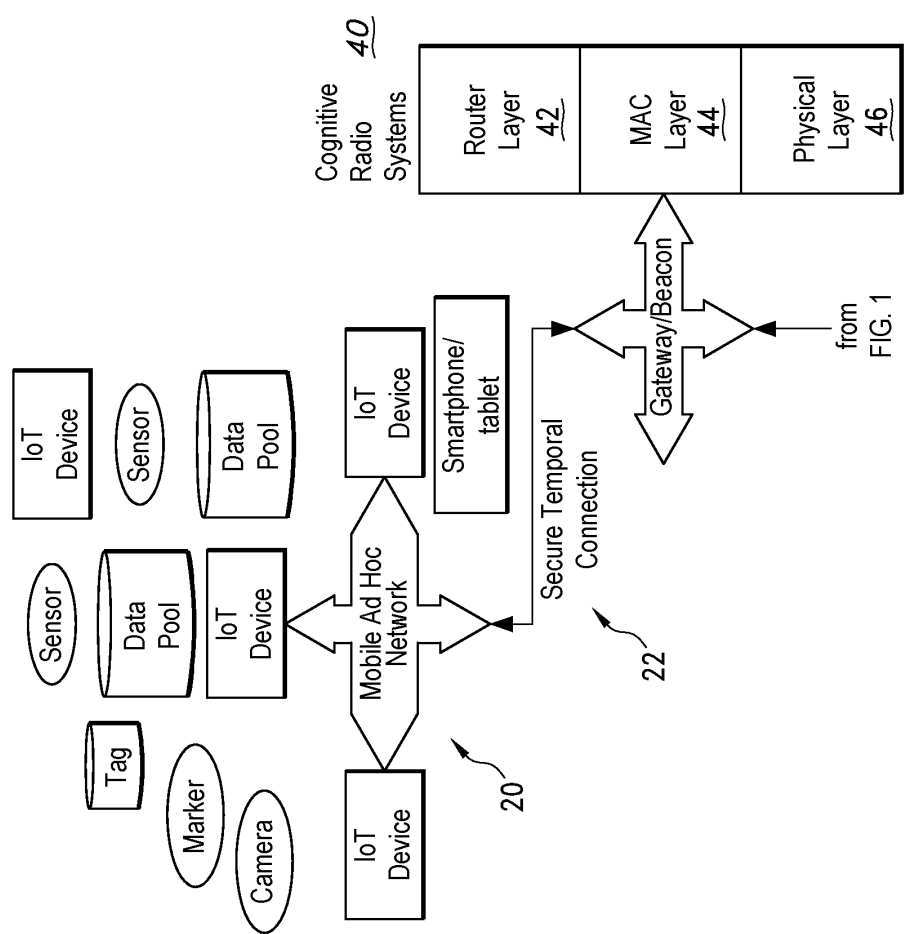
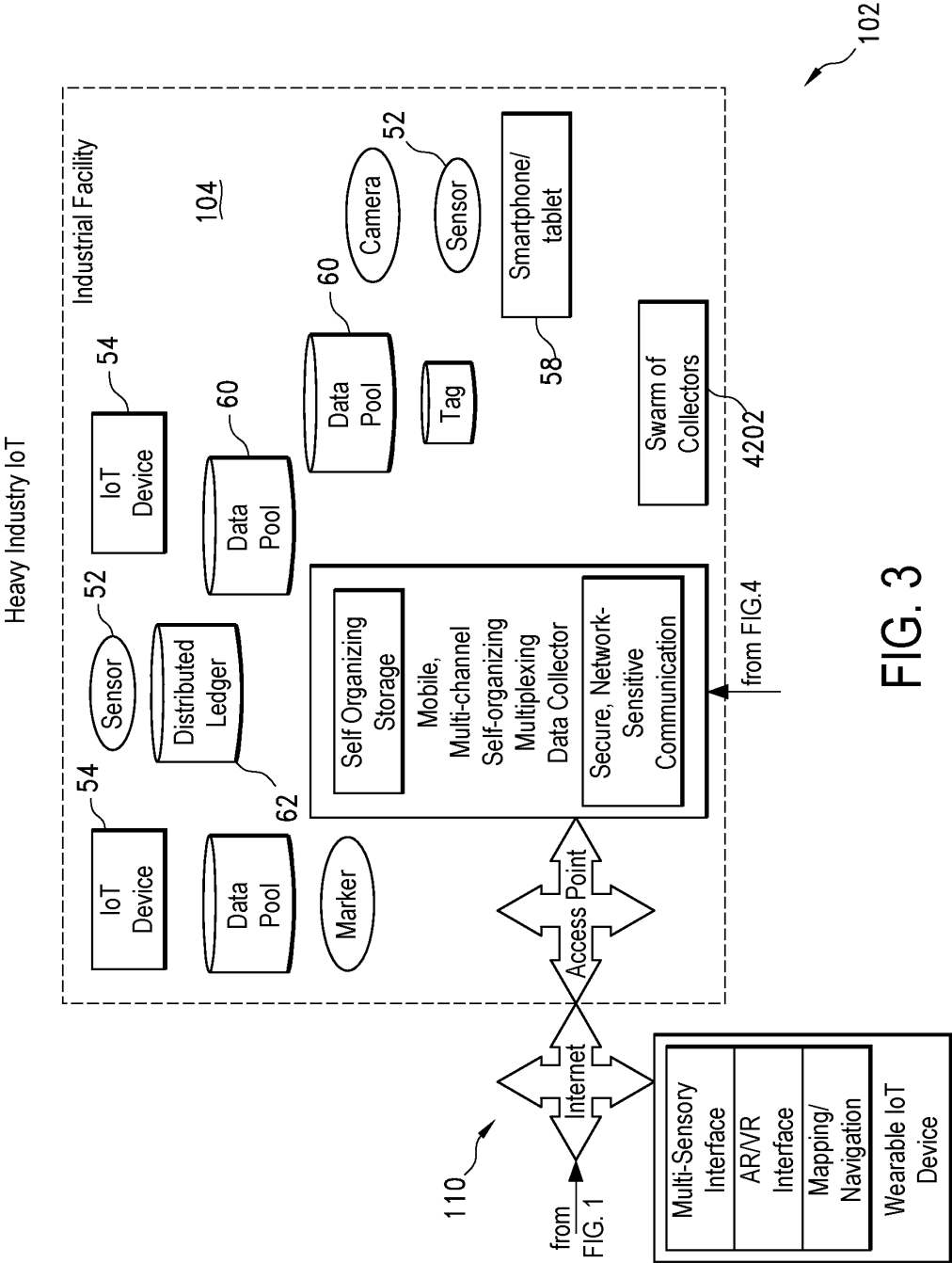


FIG. 2



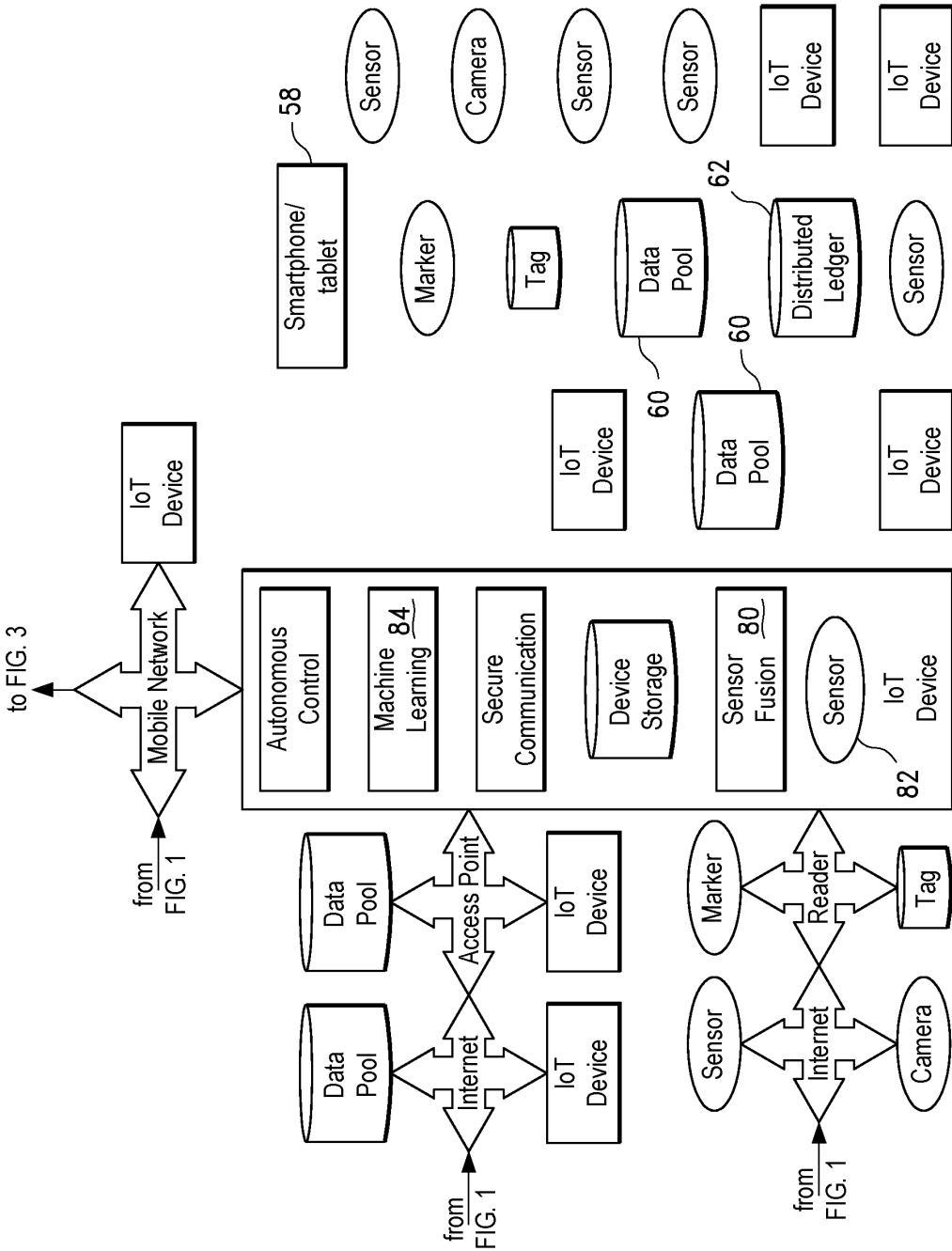


FIG. 4

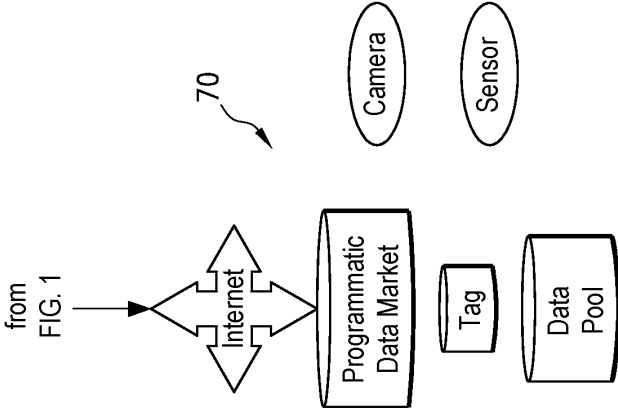


FIG. 5

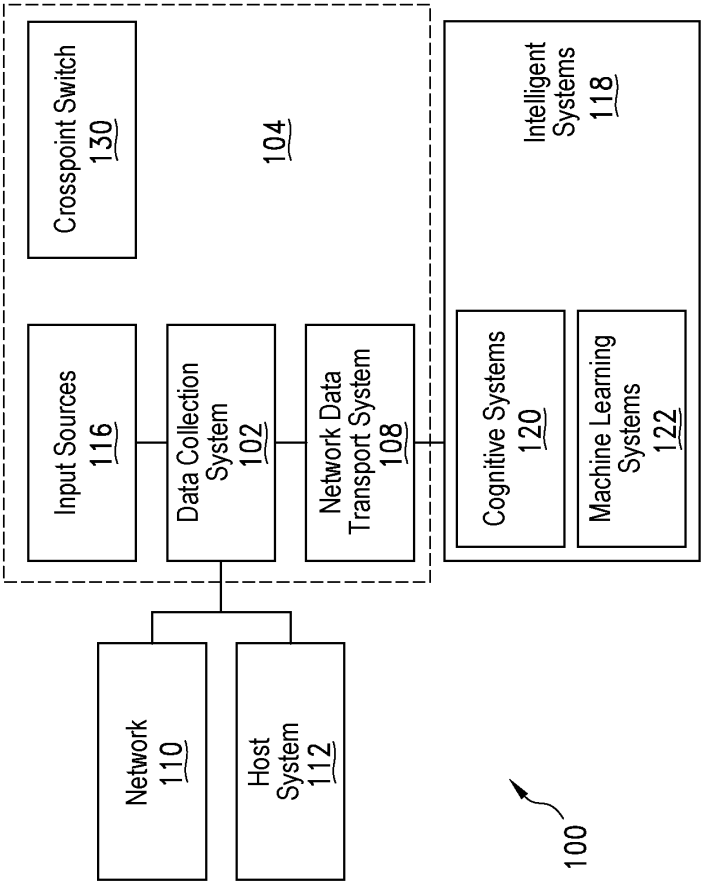
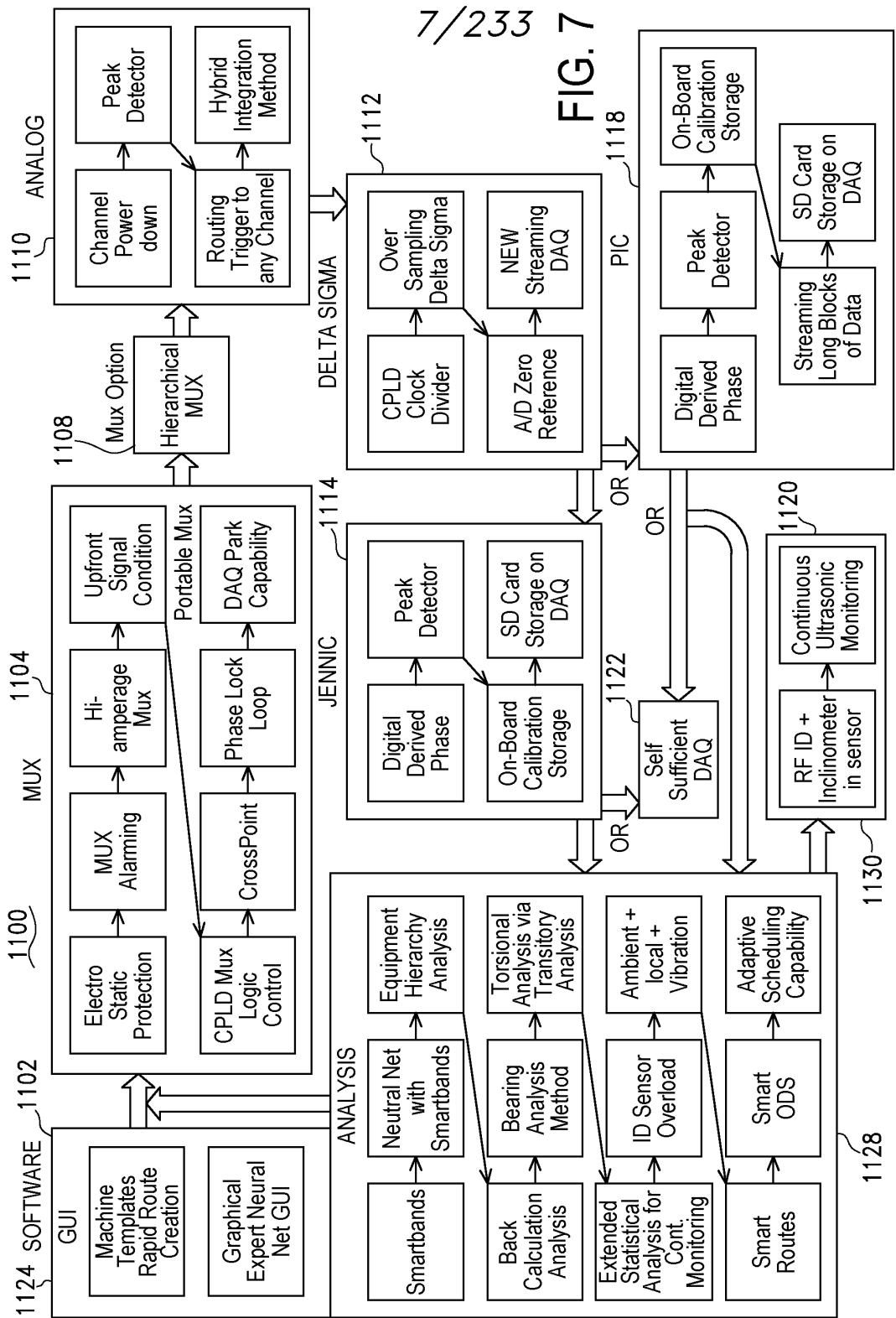


FIG. 6



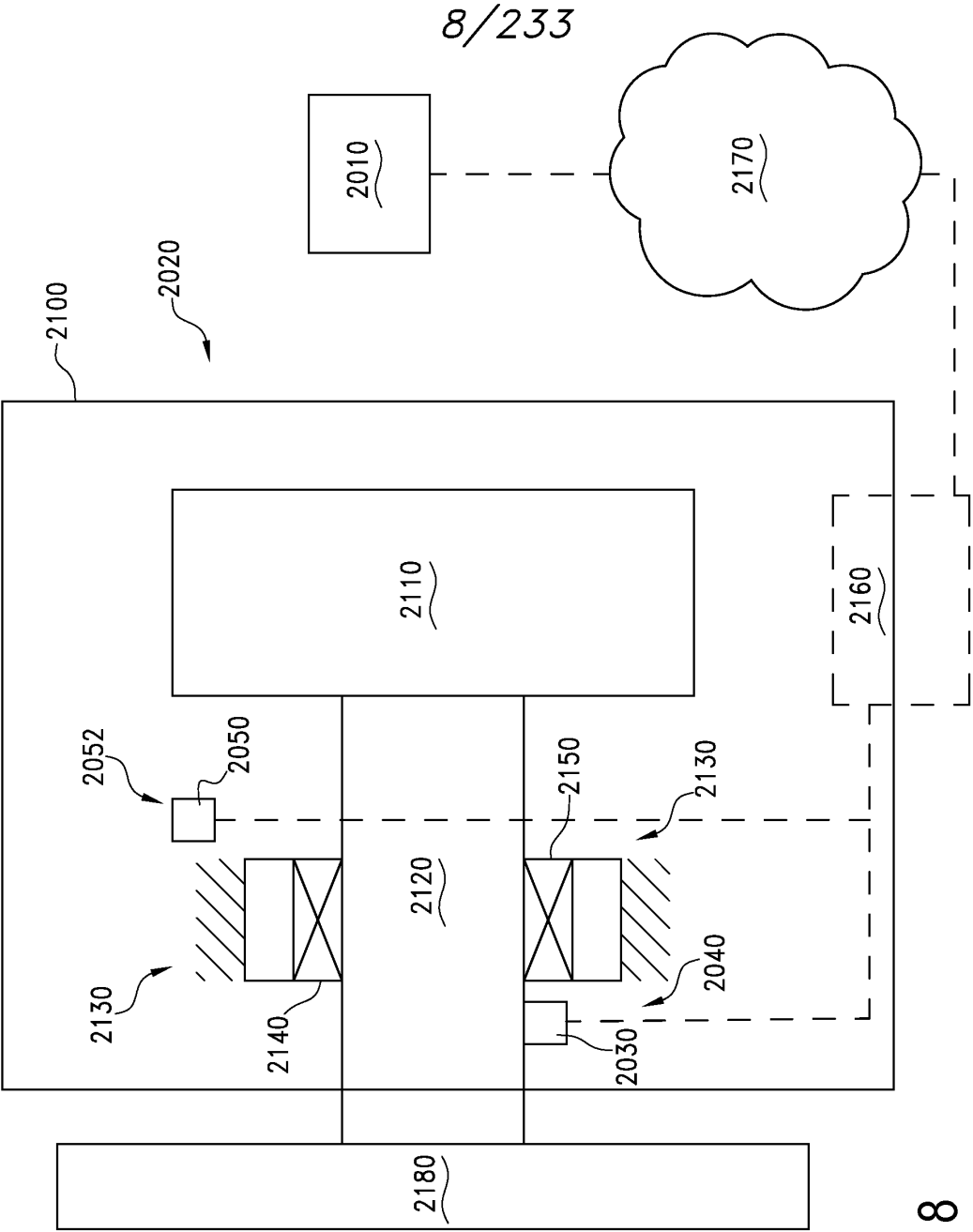


FIG. 8

9/233

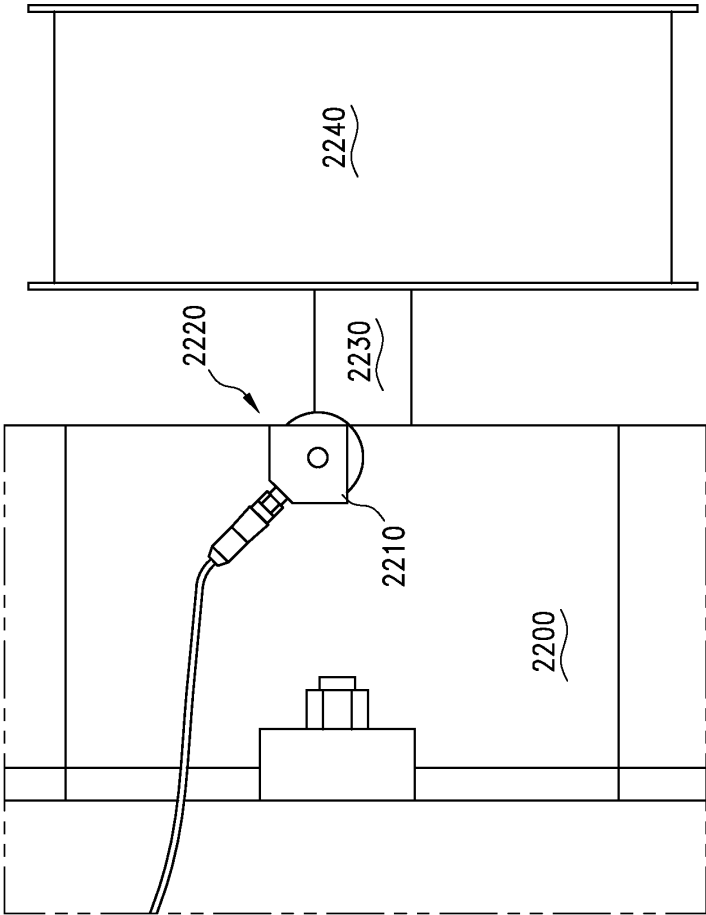


FIG. 9

10/233

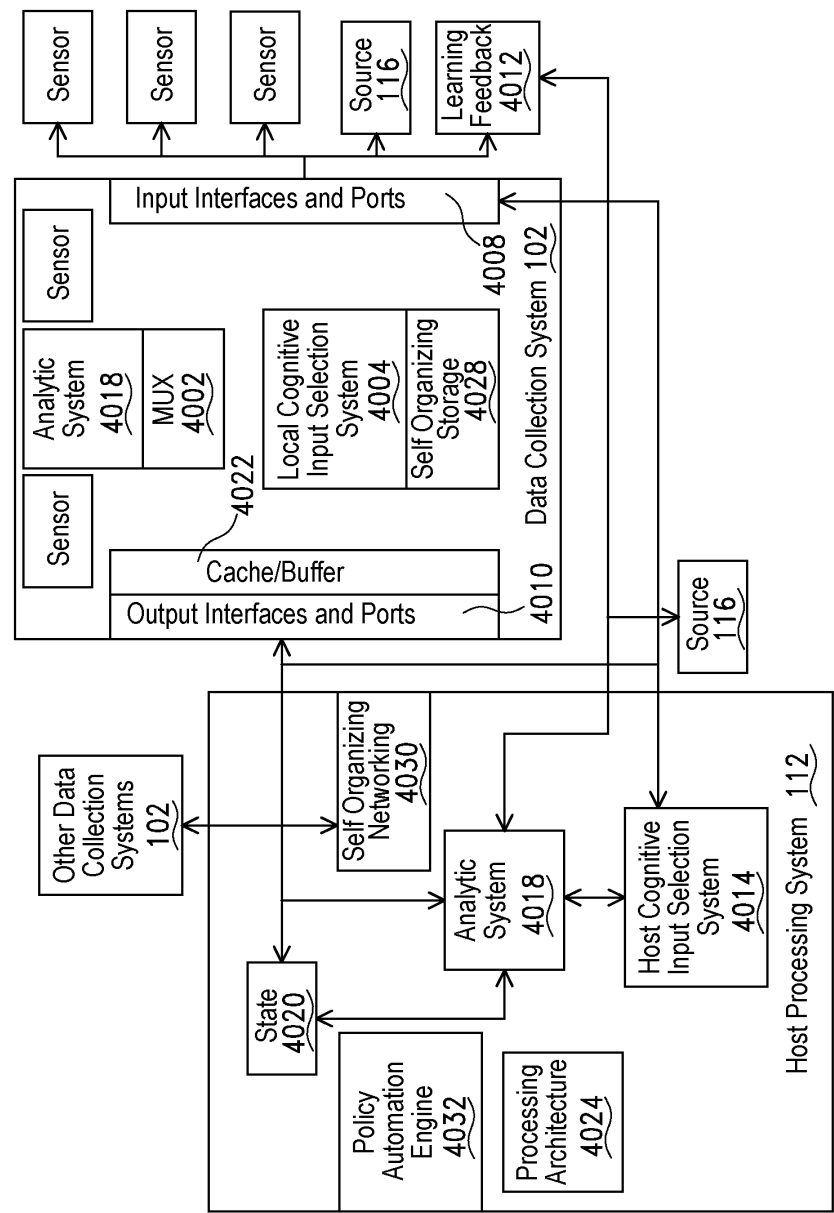


FIG. 10

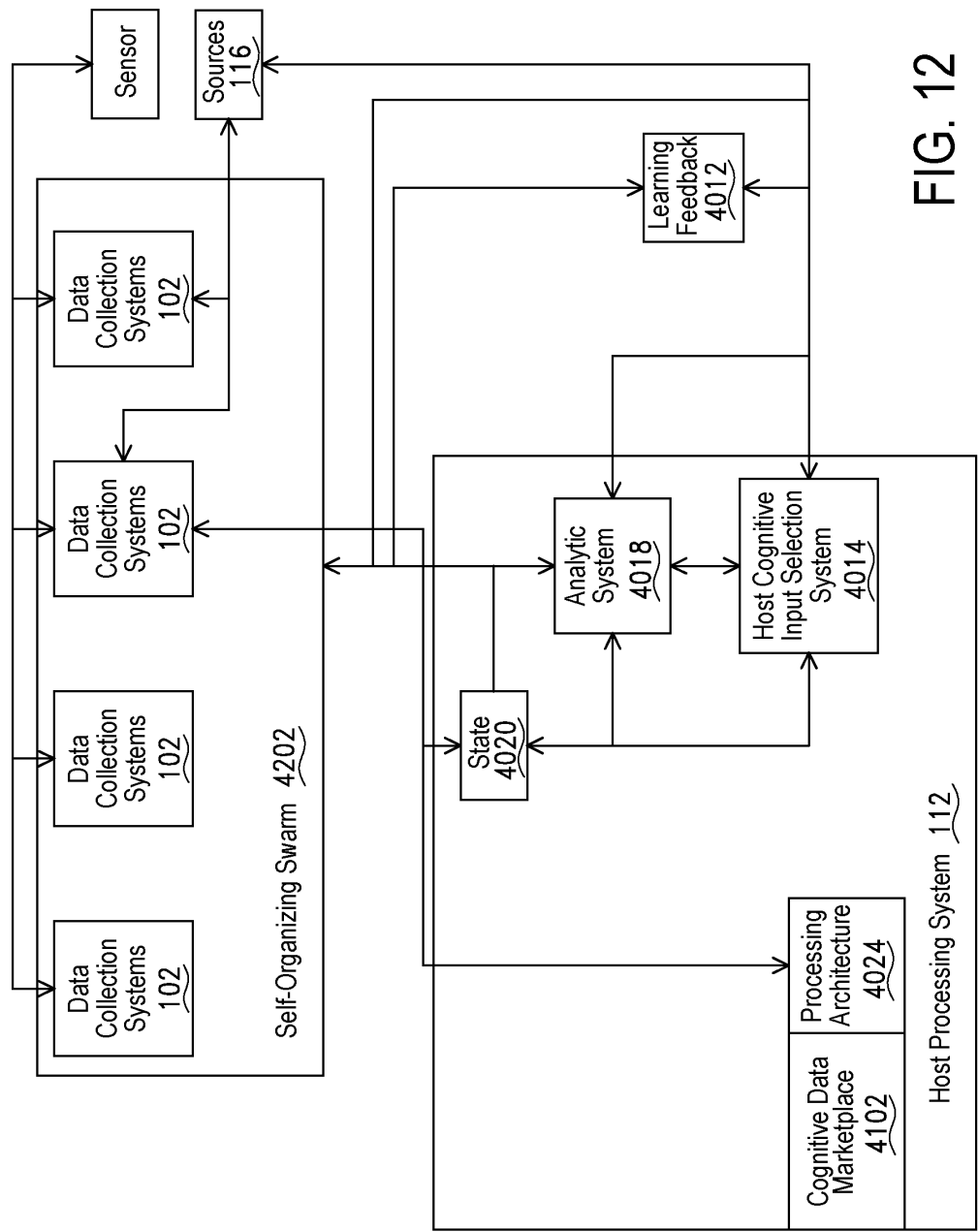


FIG. 12

13/233

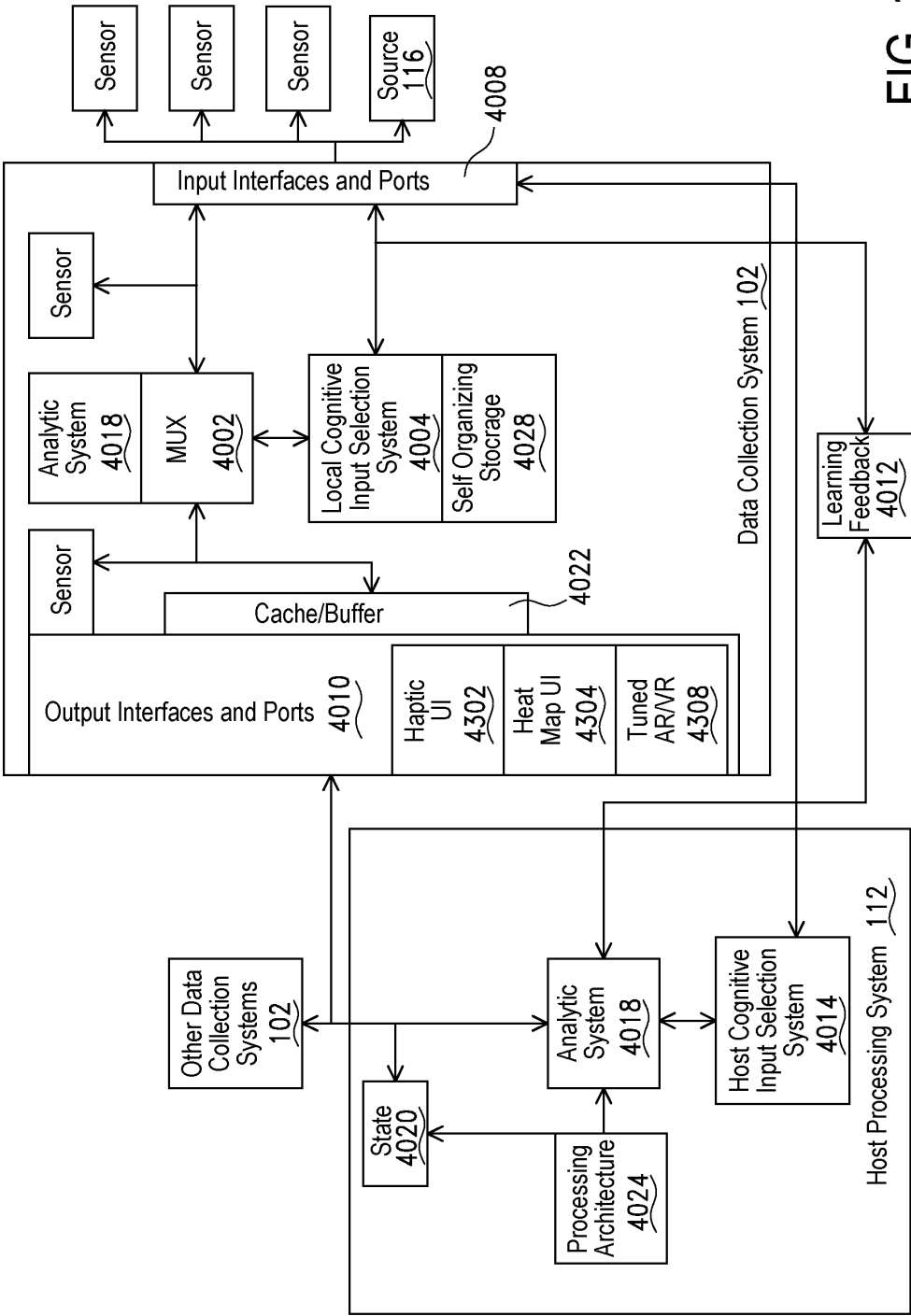


FIG. 13

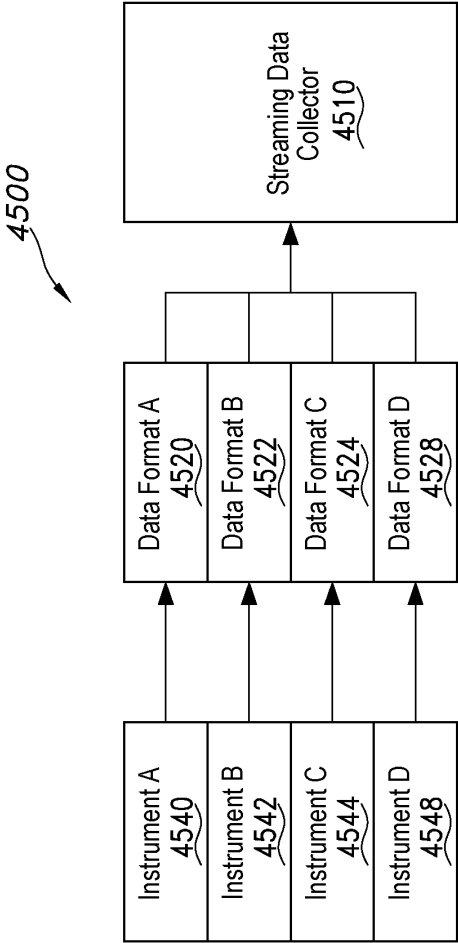


FIG. 14

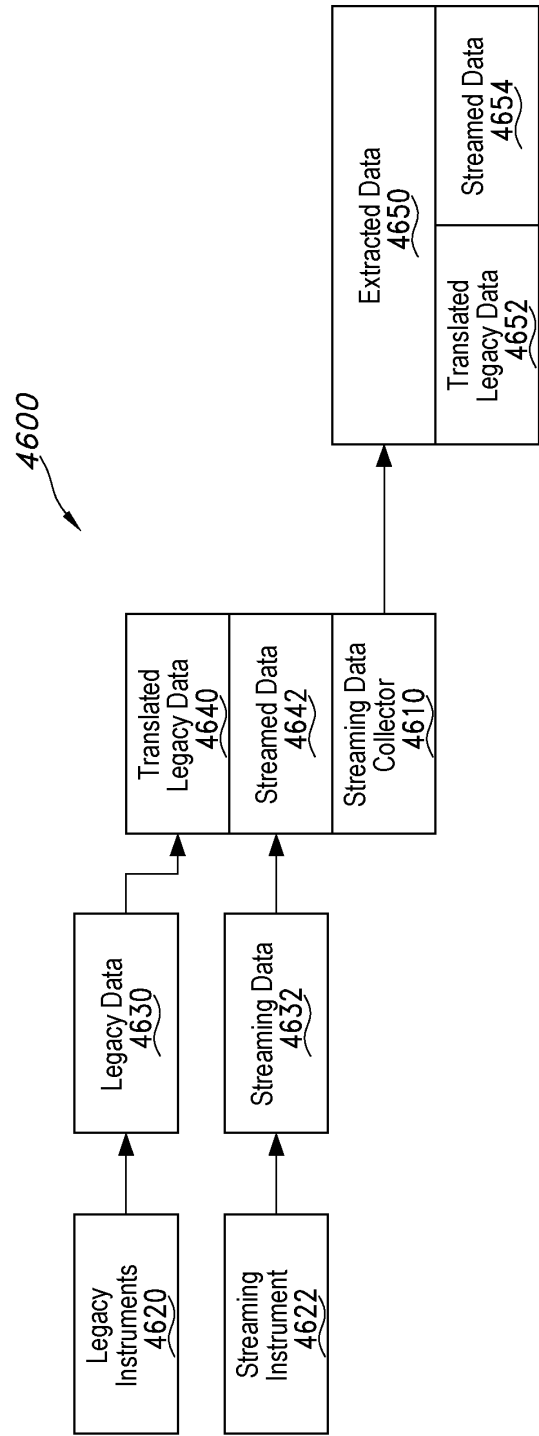


FIG. 15

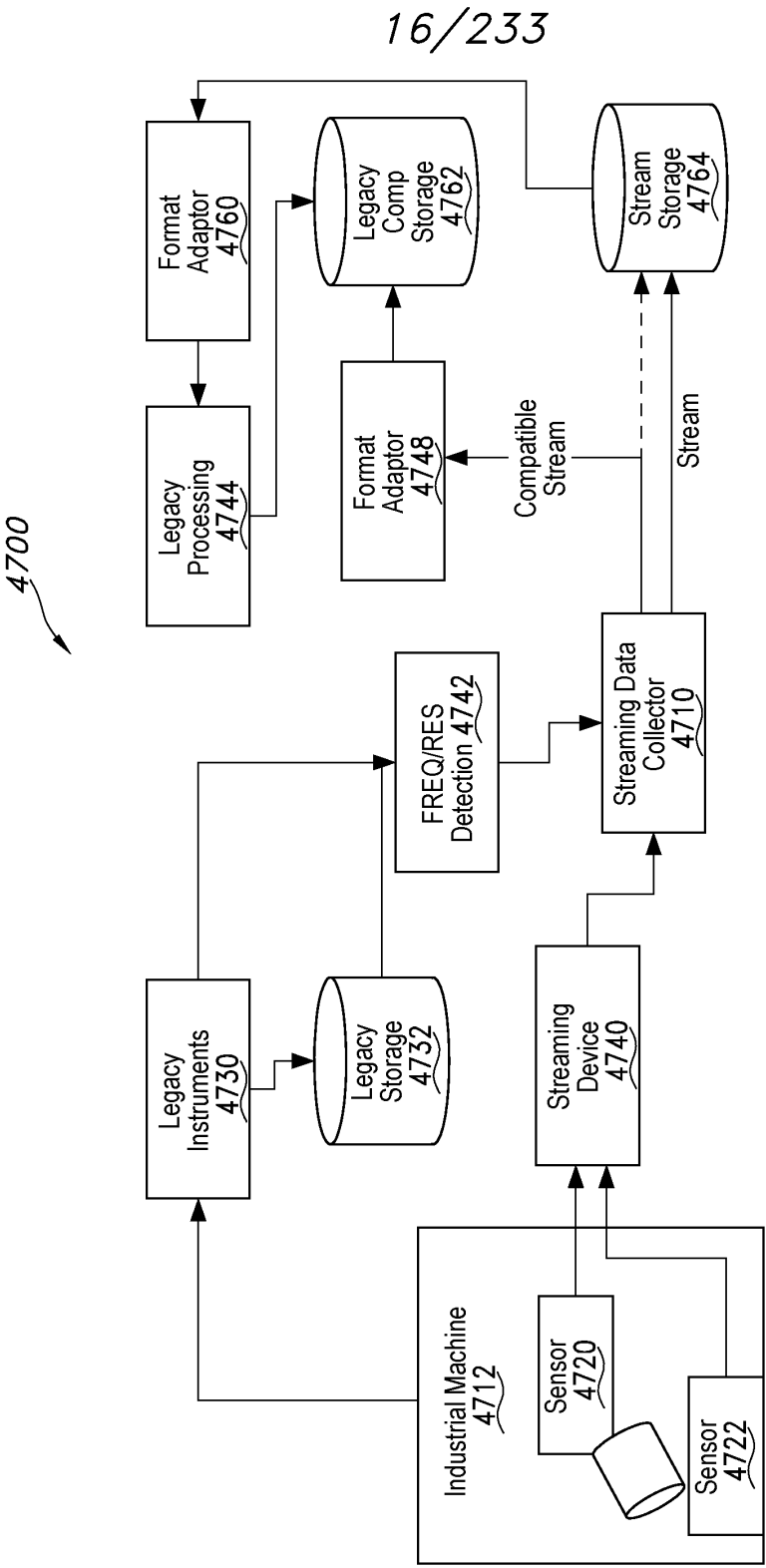


FIG. 16

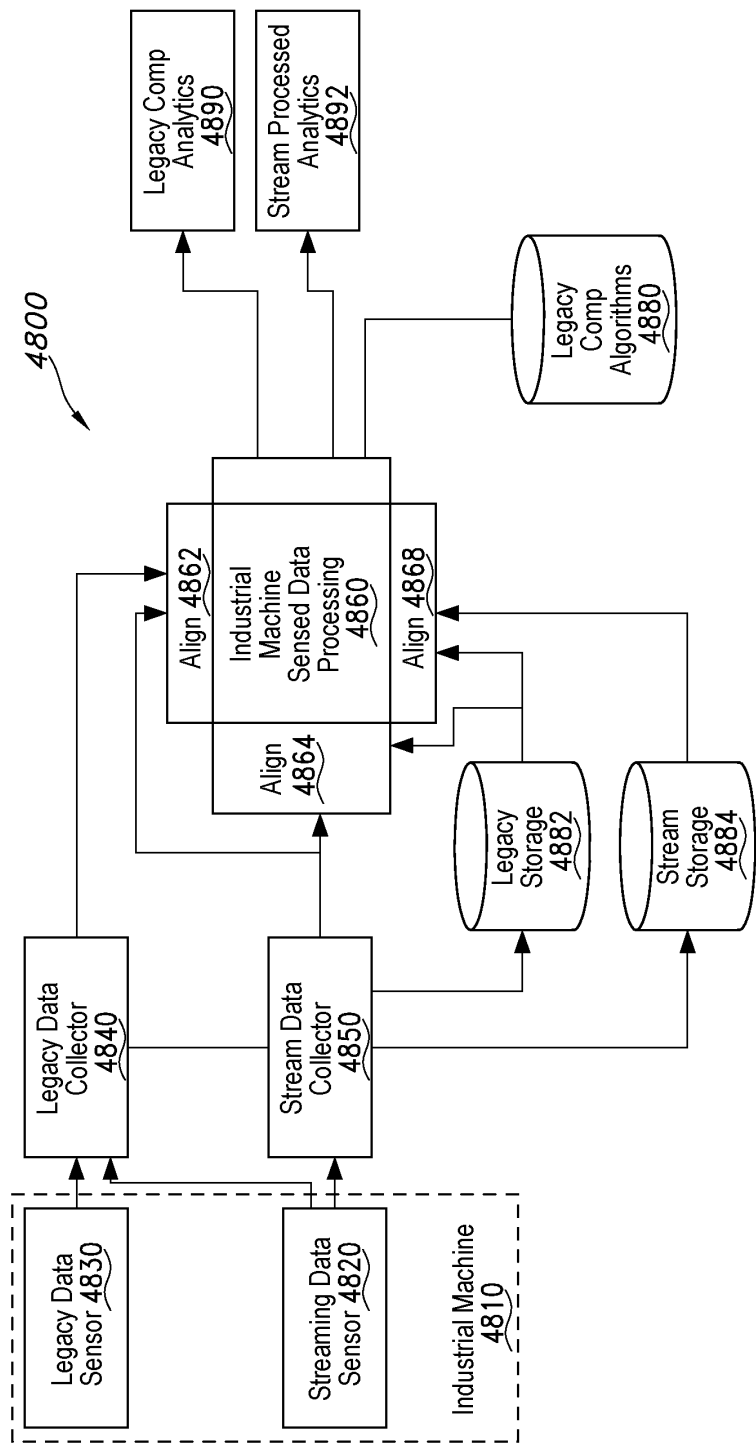


FIG. 17

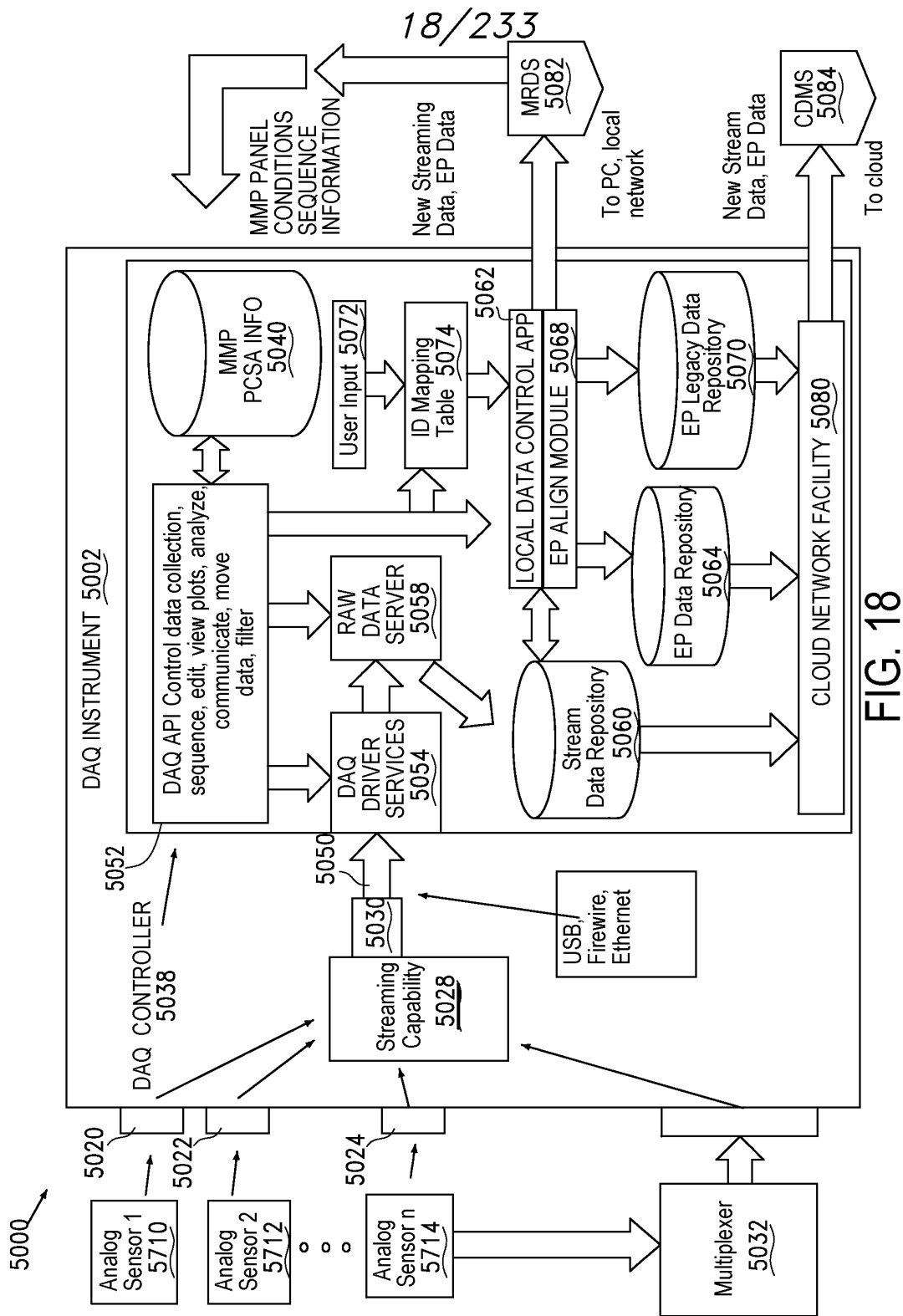


FIG. 18

19/233

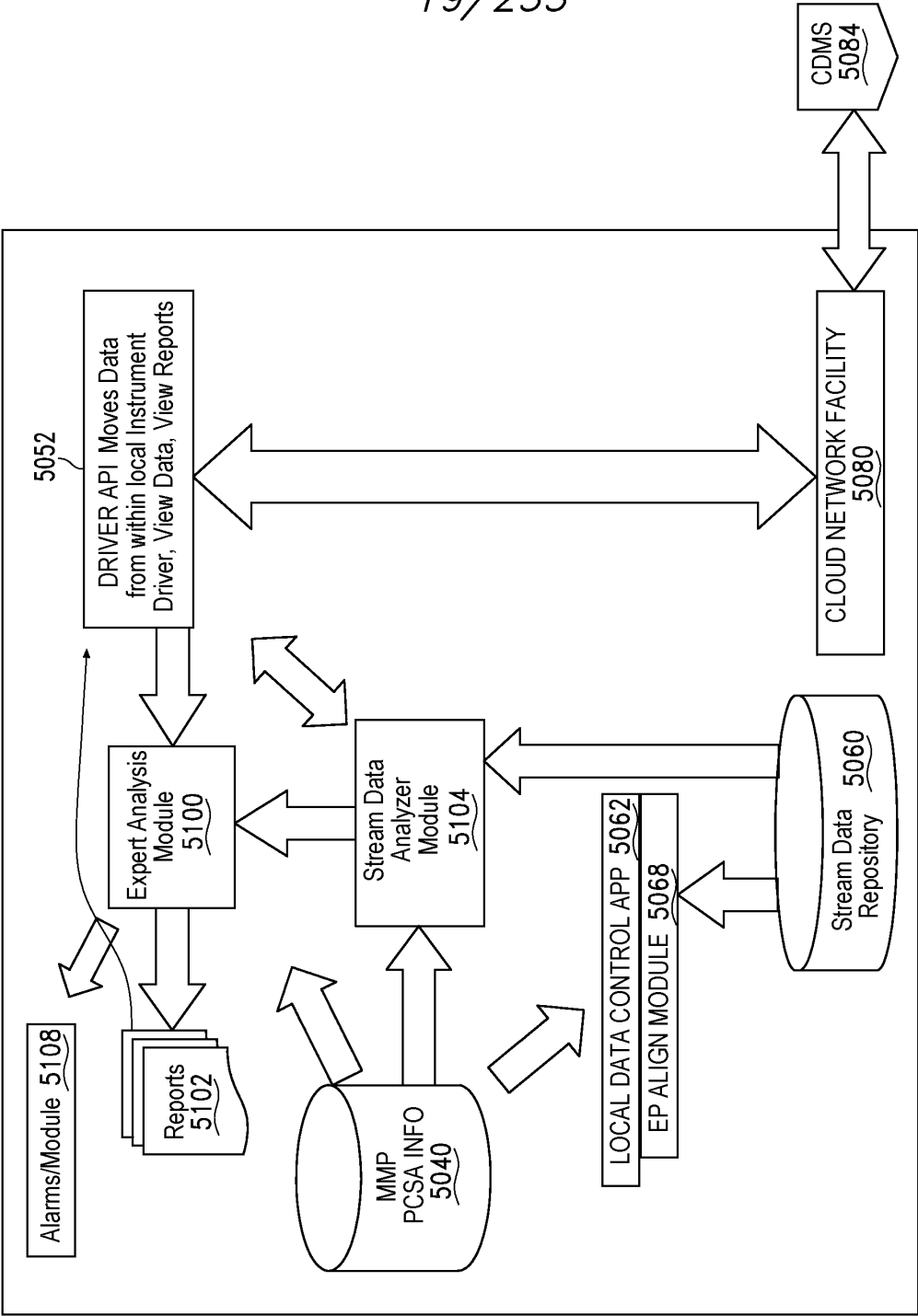


FIG. 19

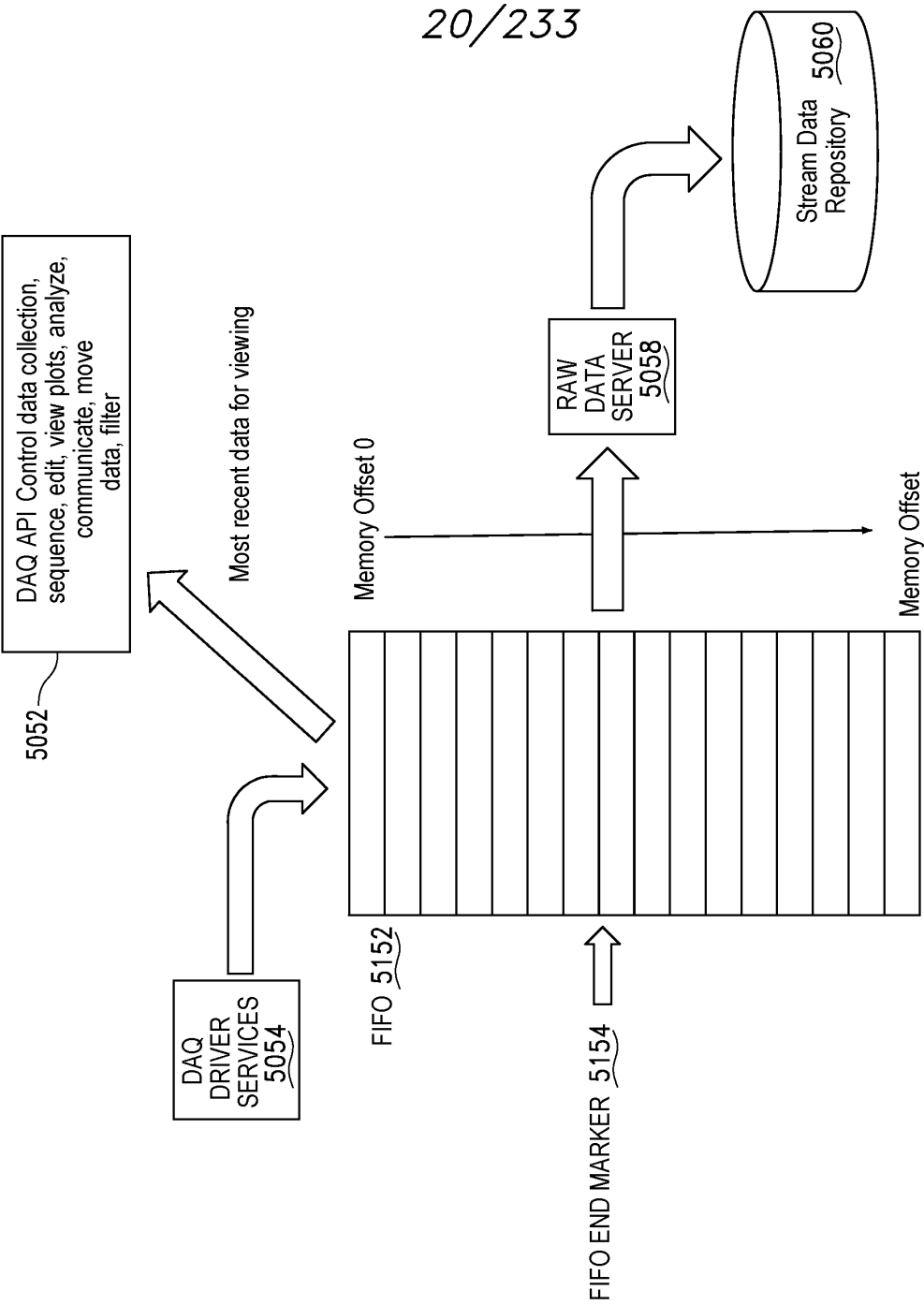
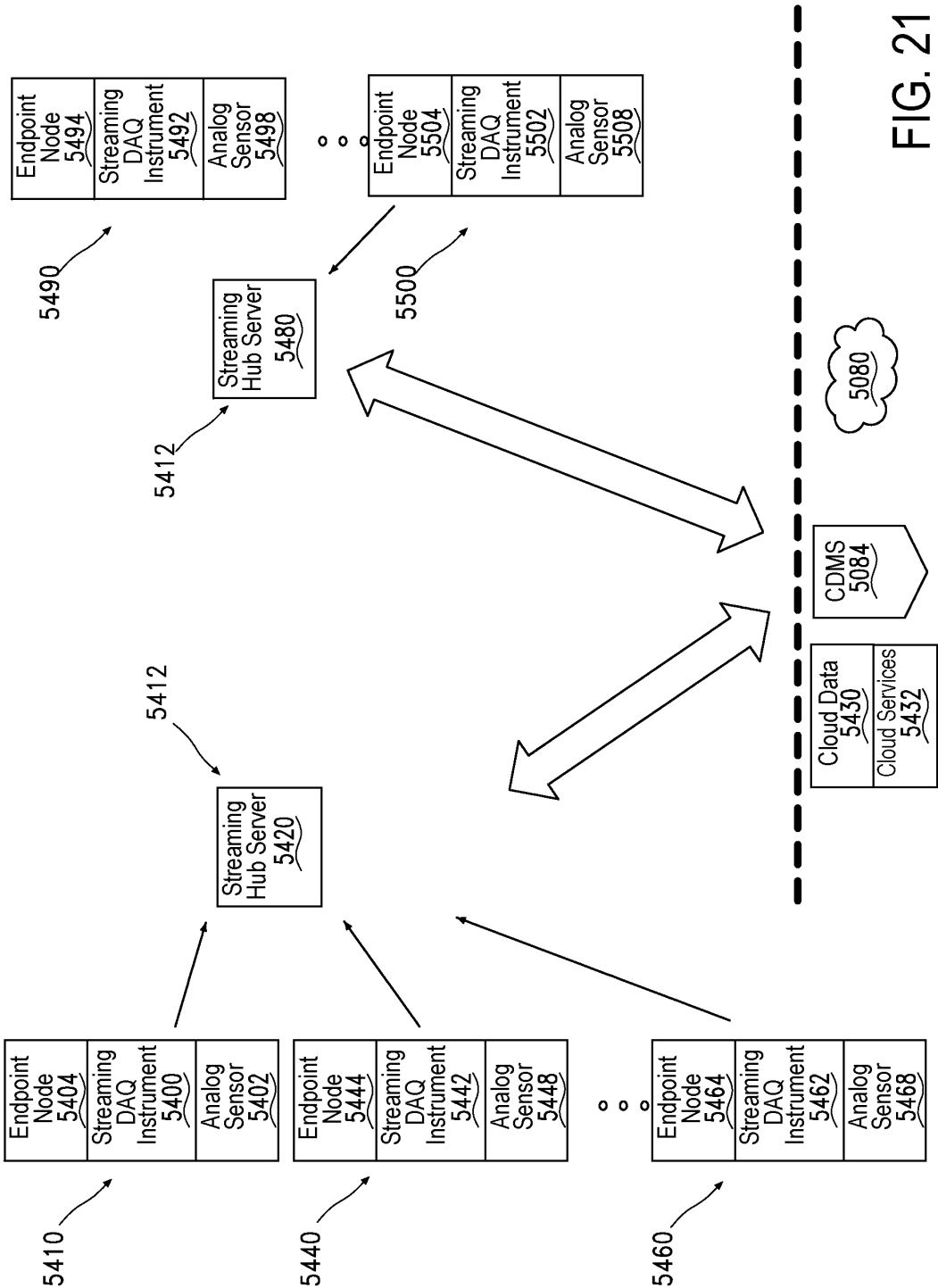


FIG. 20



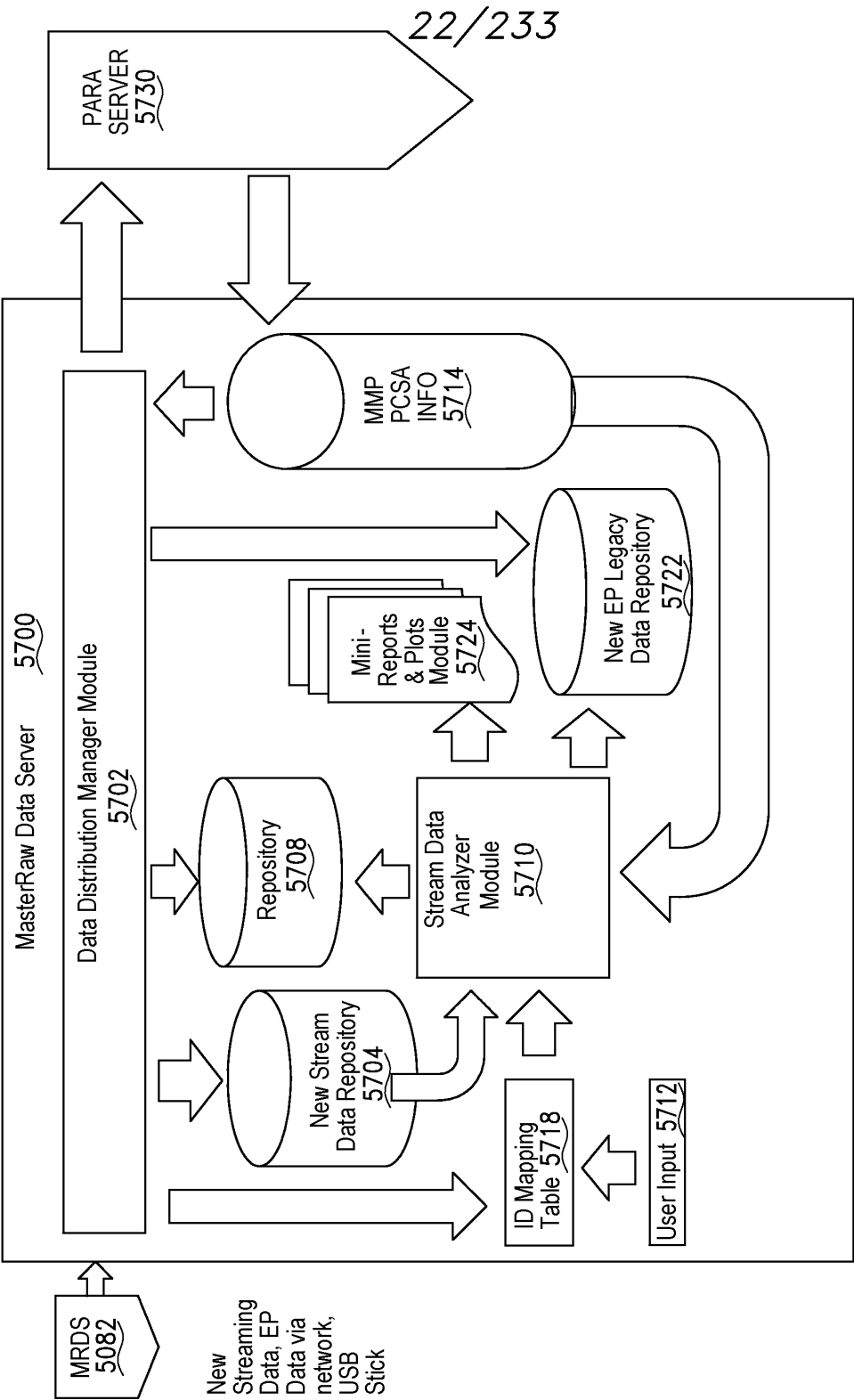


FIG. 22

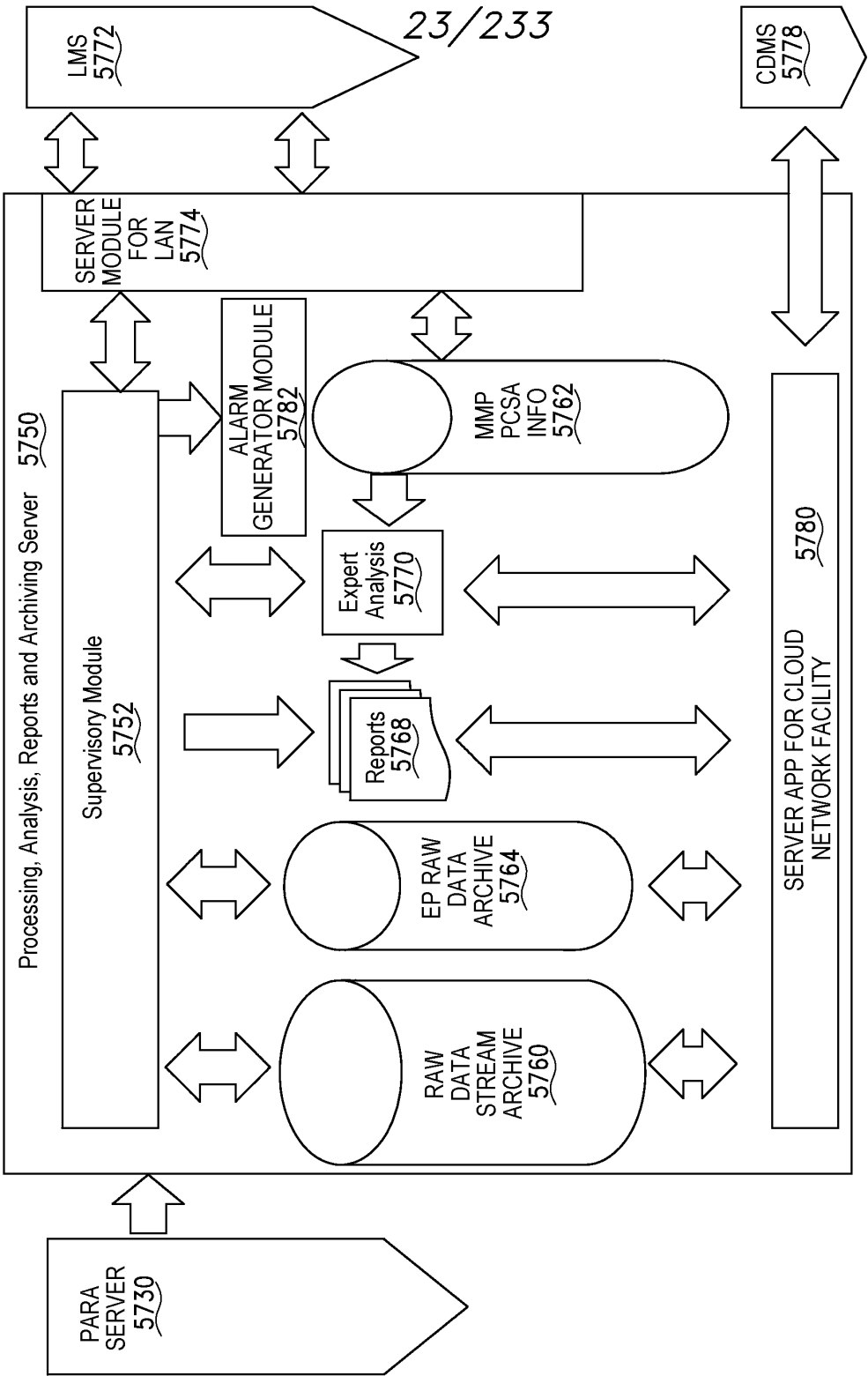


FIG. 23

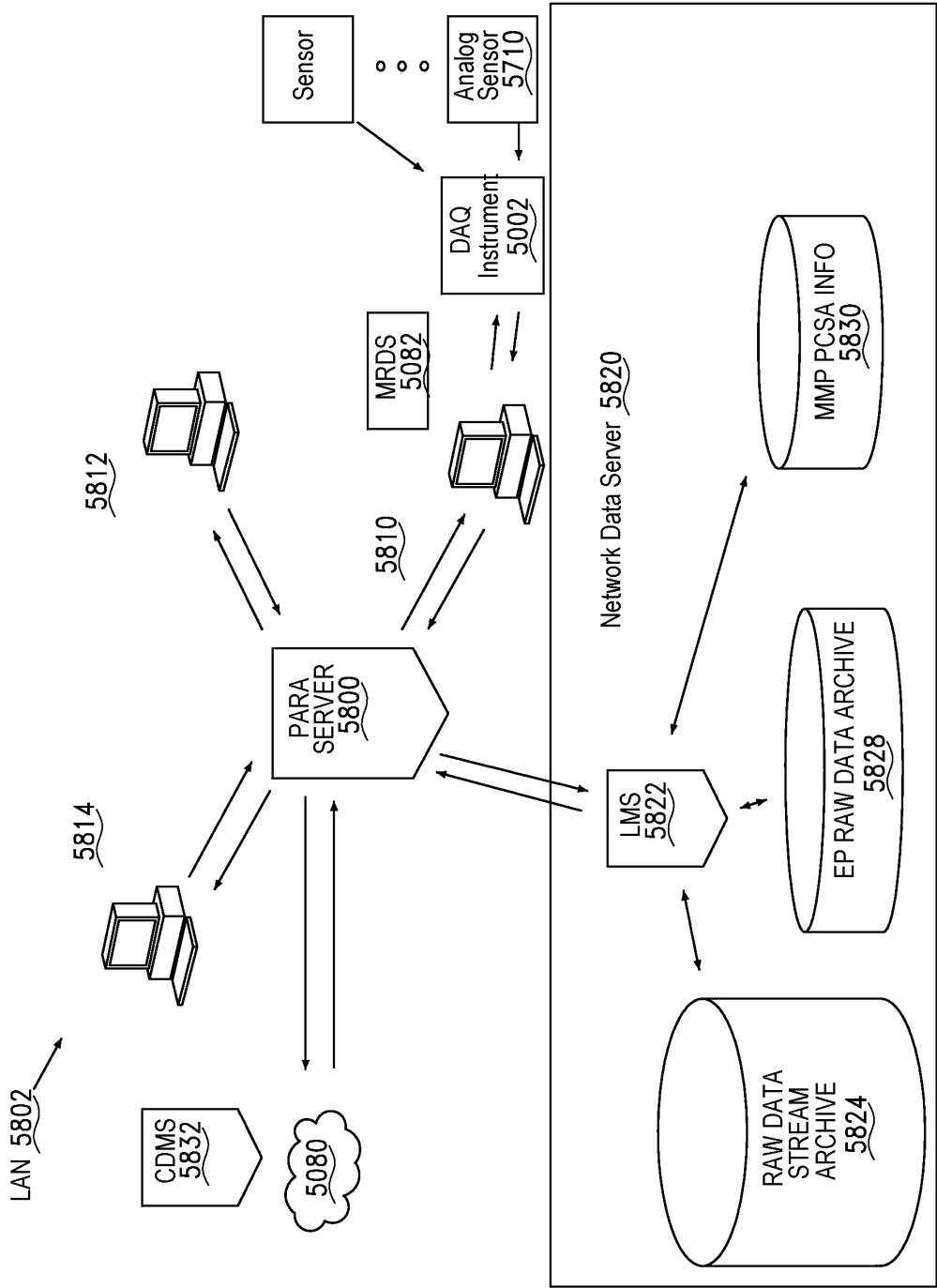


FIG. 24

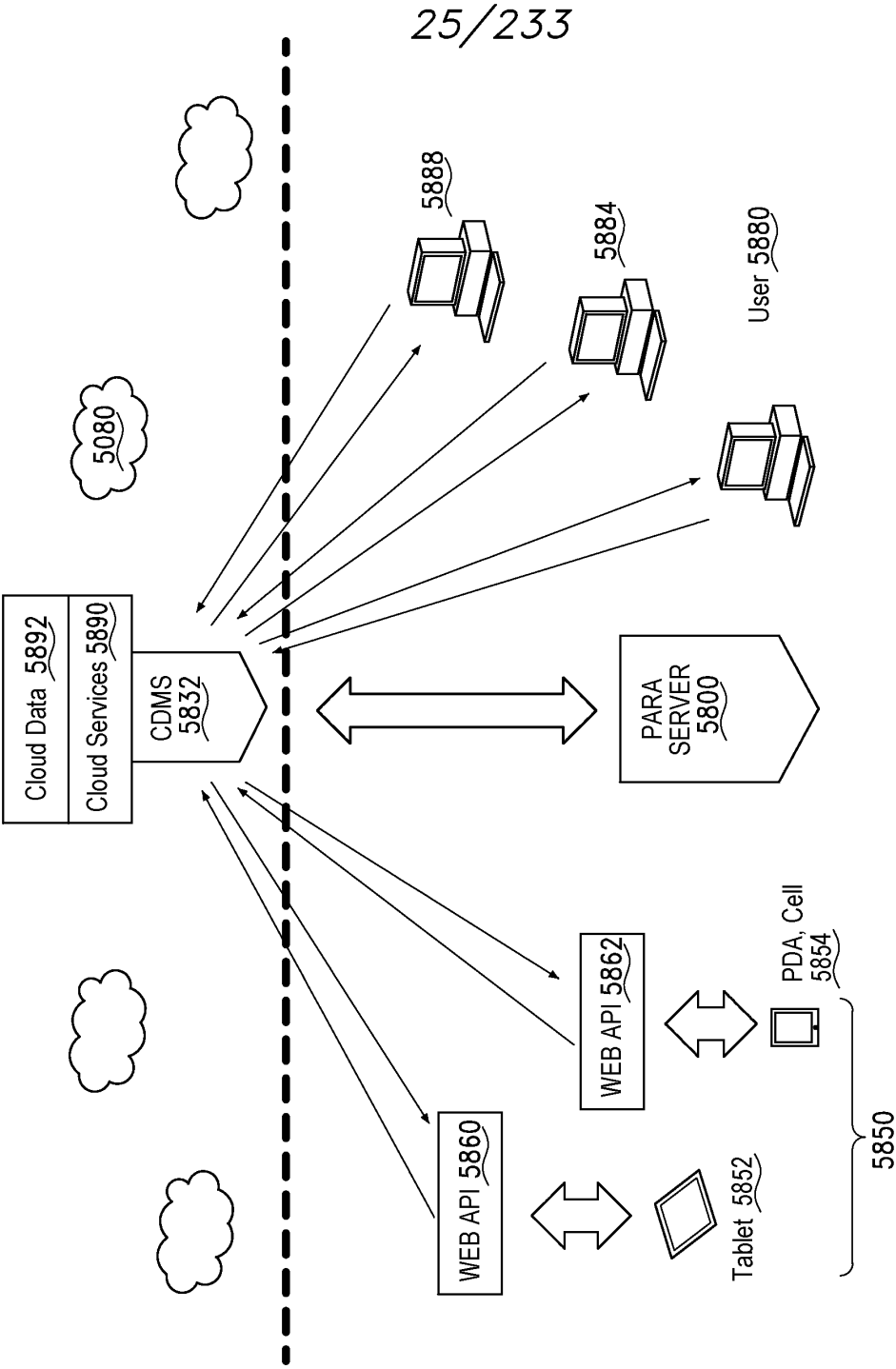


FIG. 25

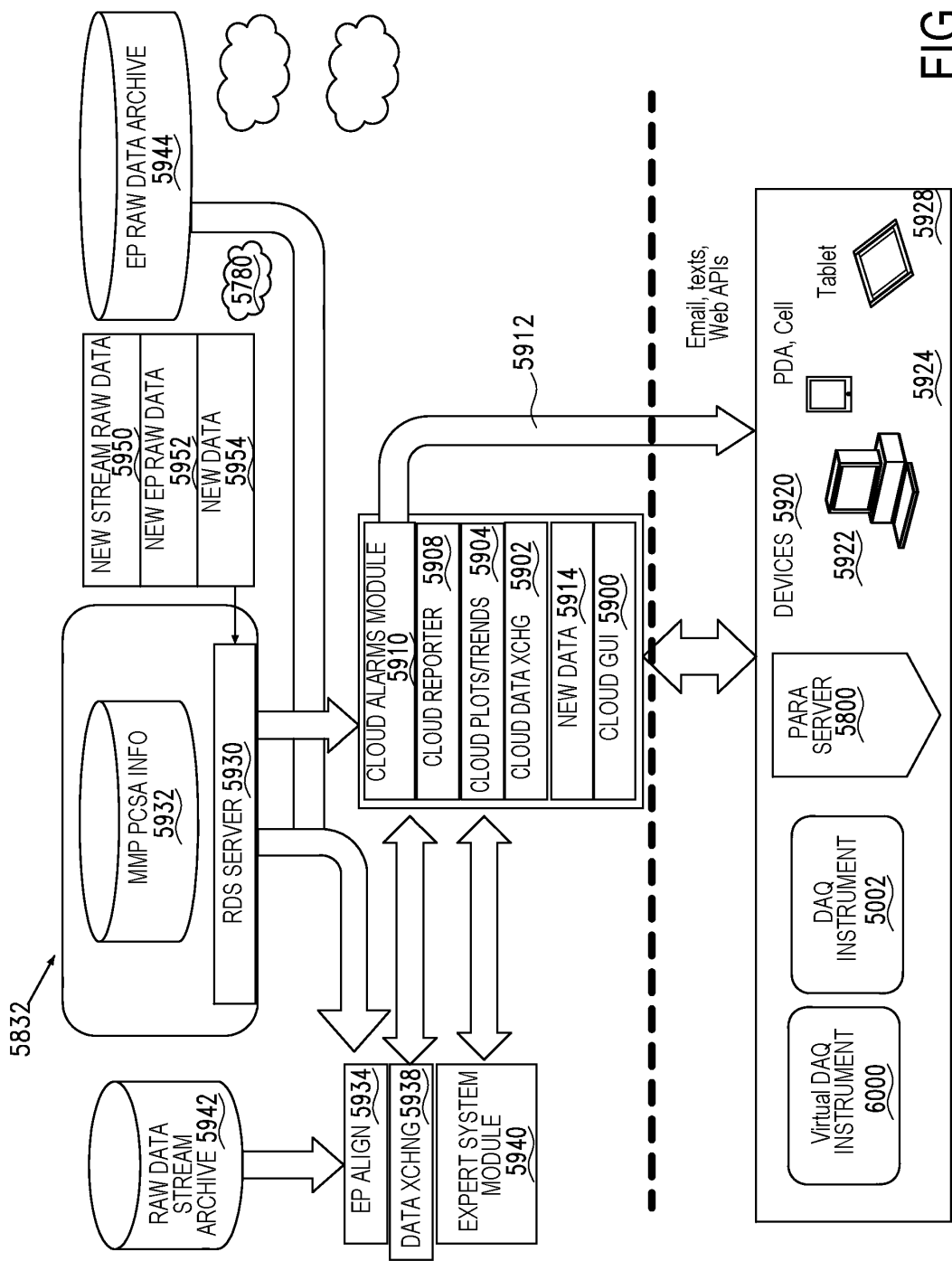


FIG. 26

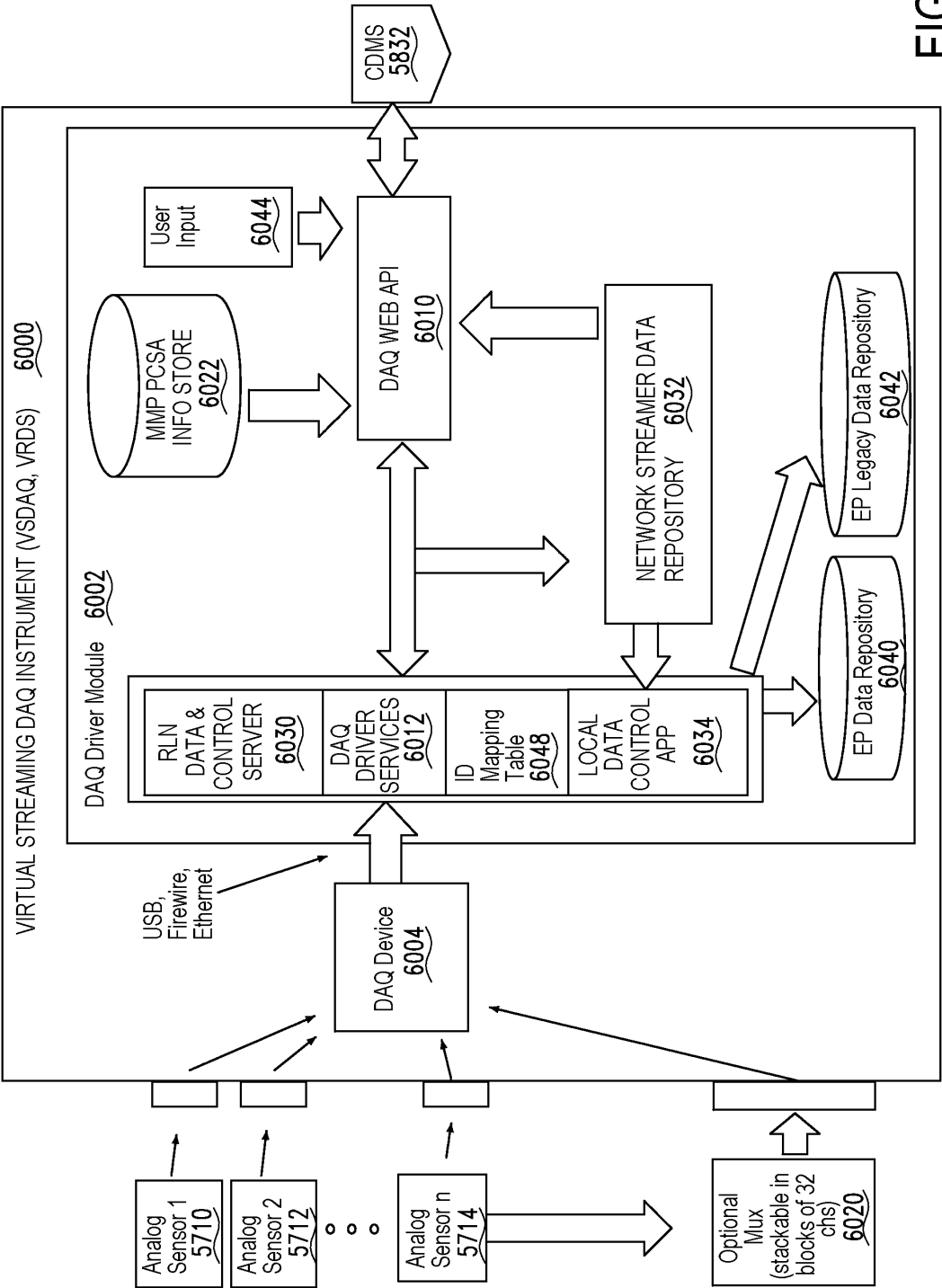


FIG. 27

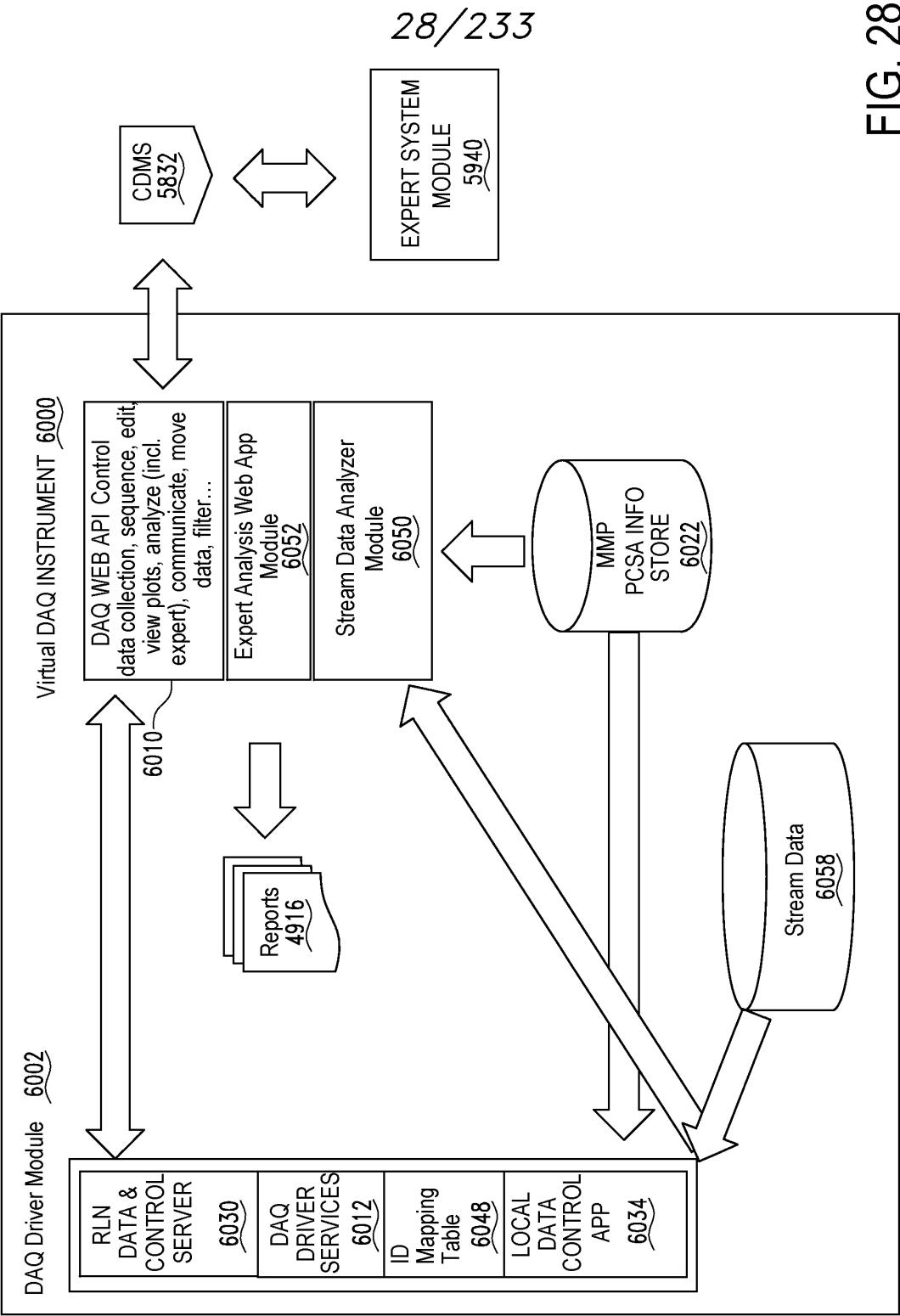


FIG. 28

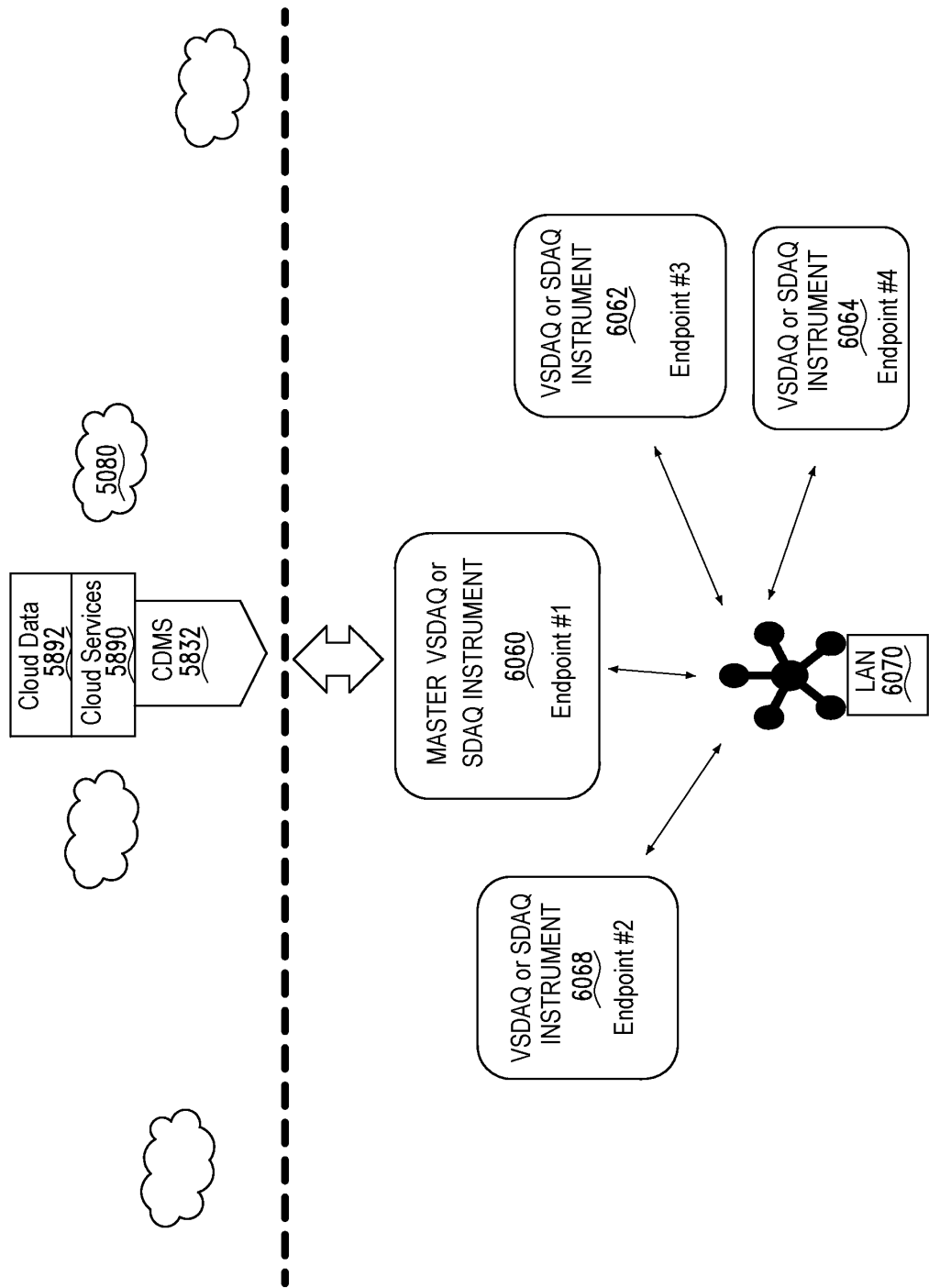


FIG. 29

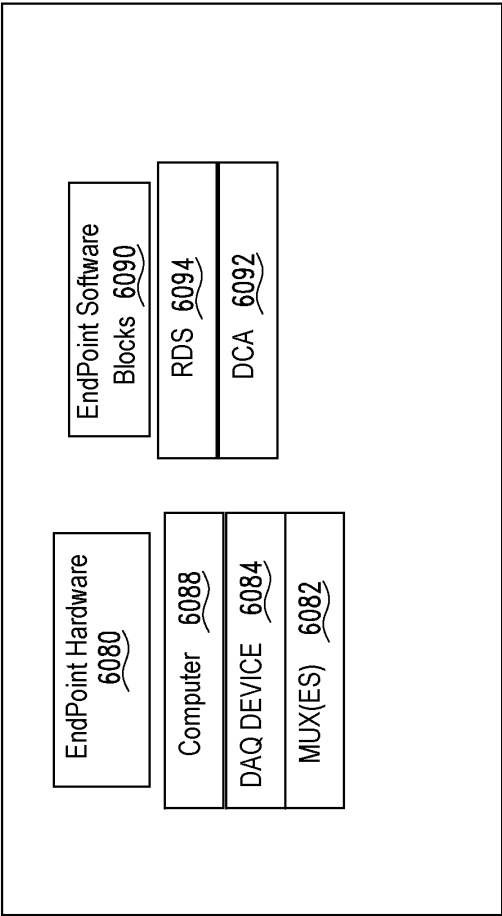


FIG. 30

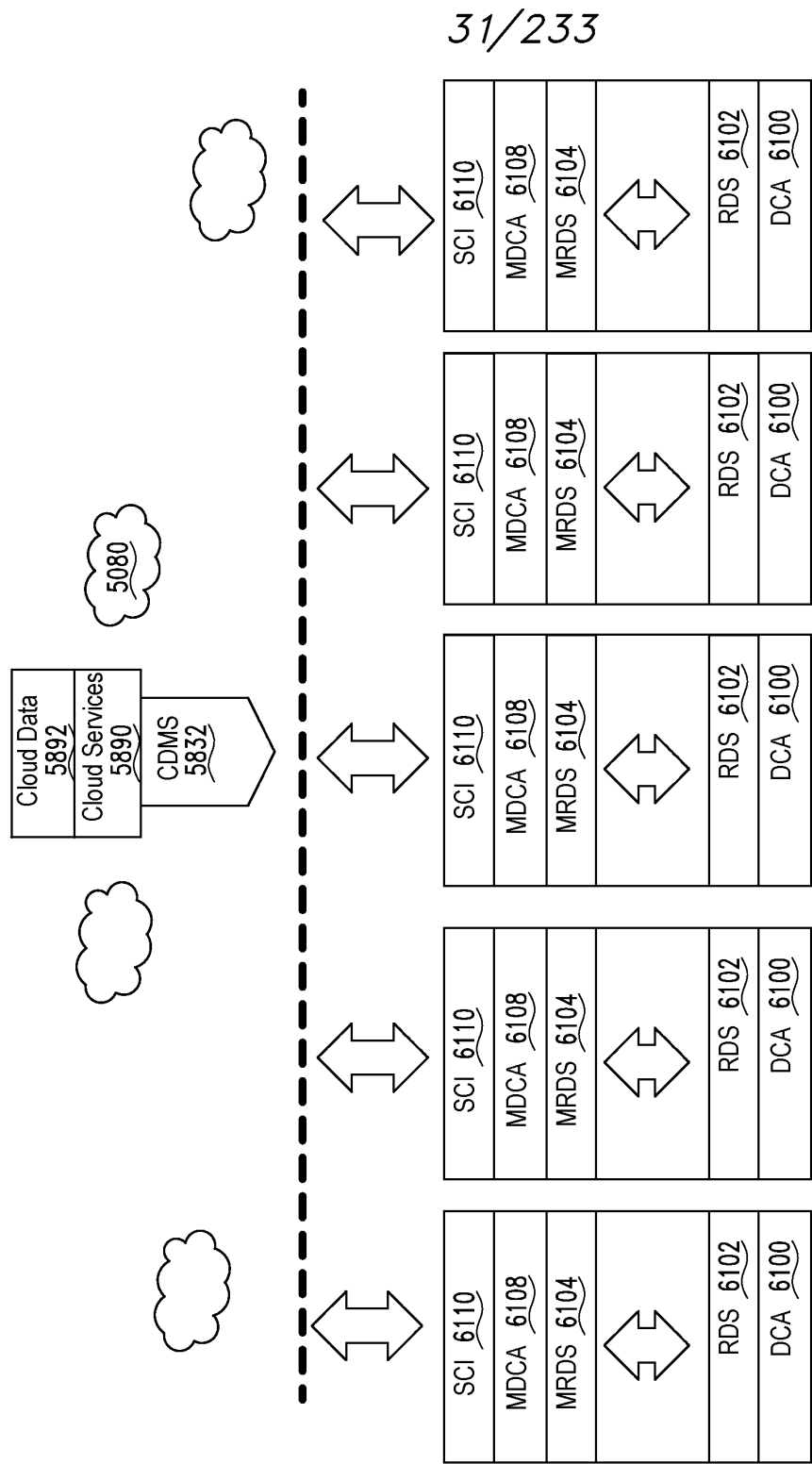


FIG. 31

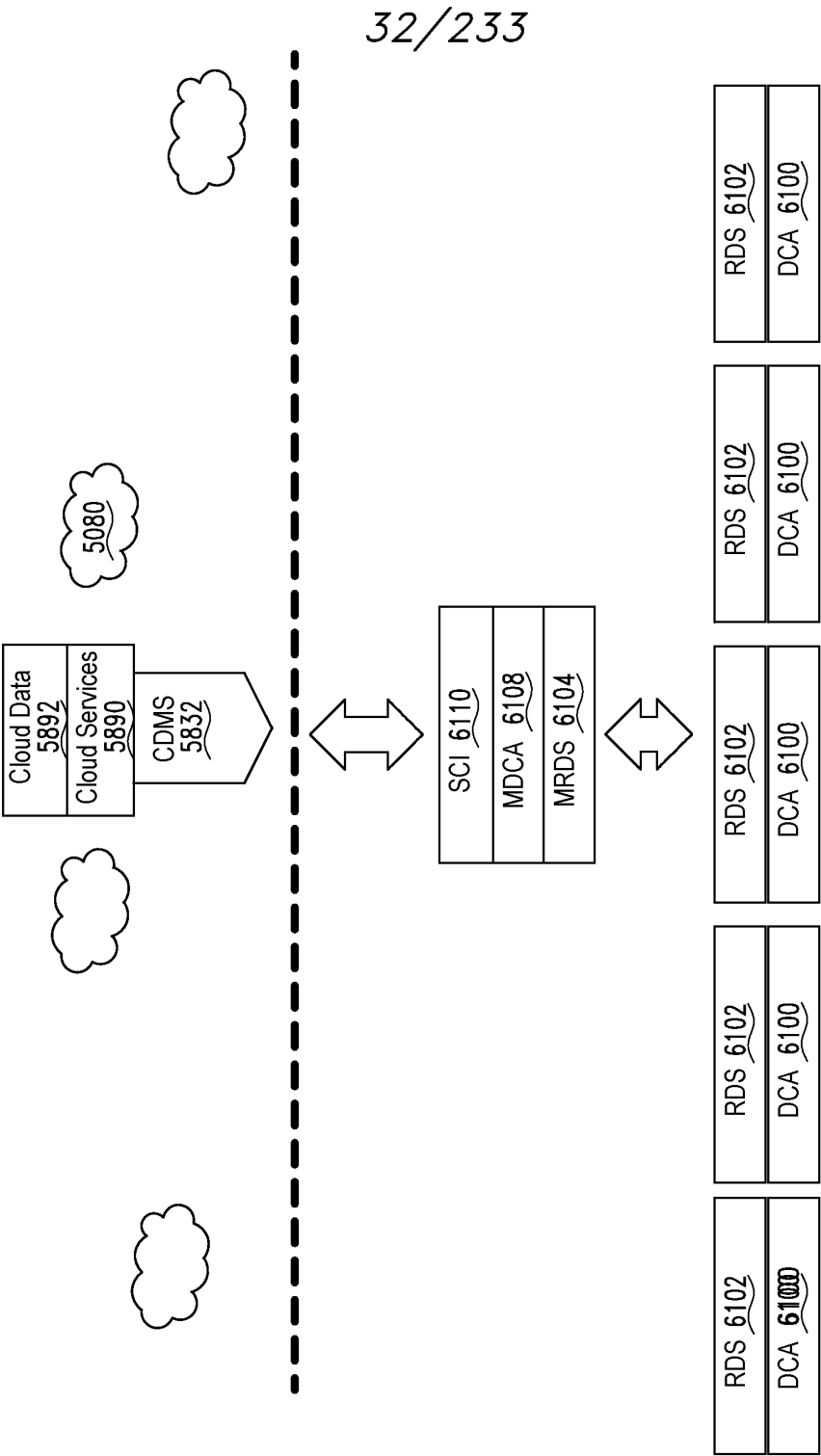


FIG. 32

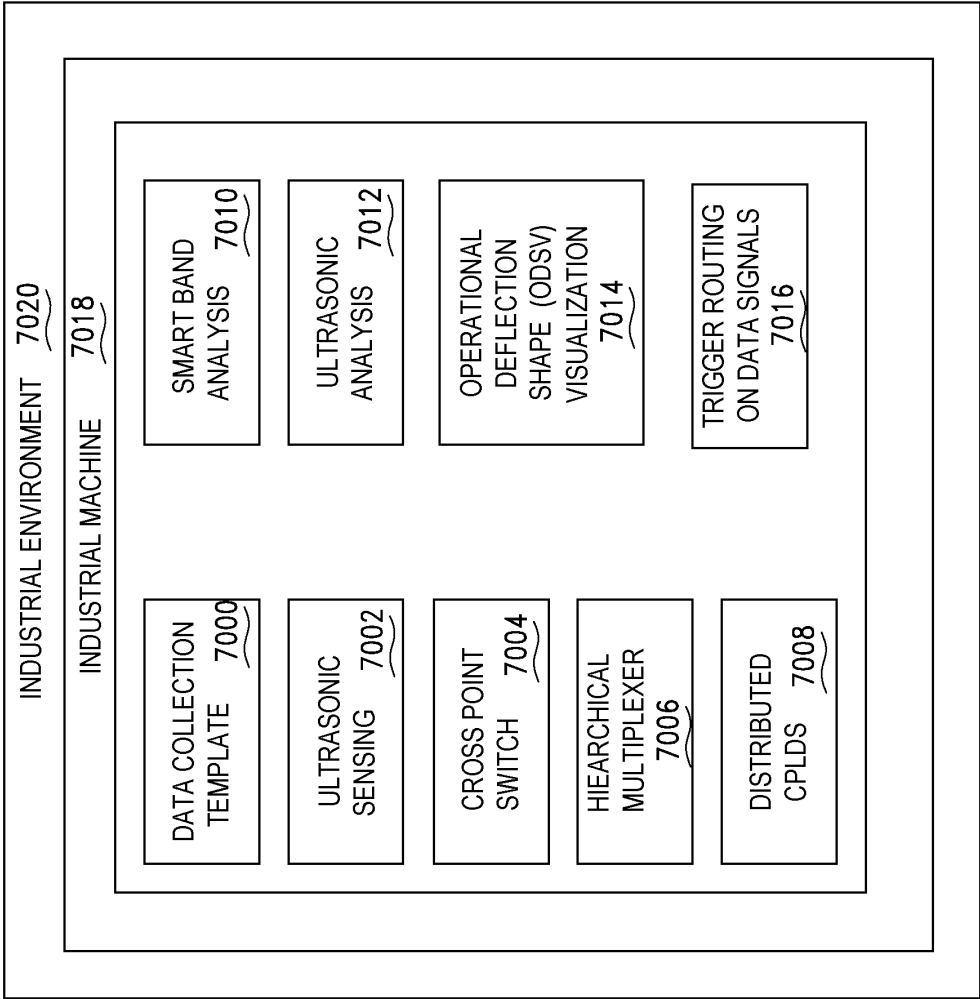


FIG. 33

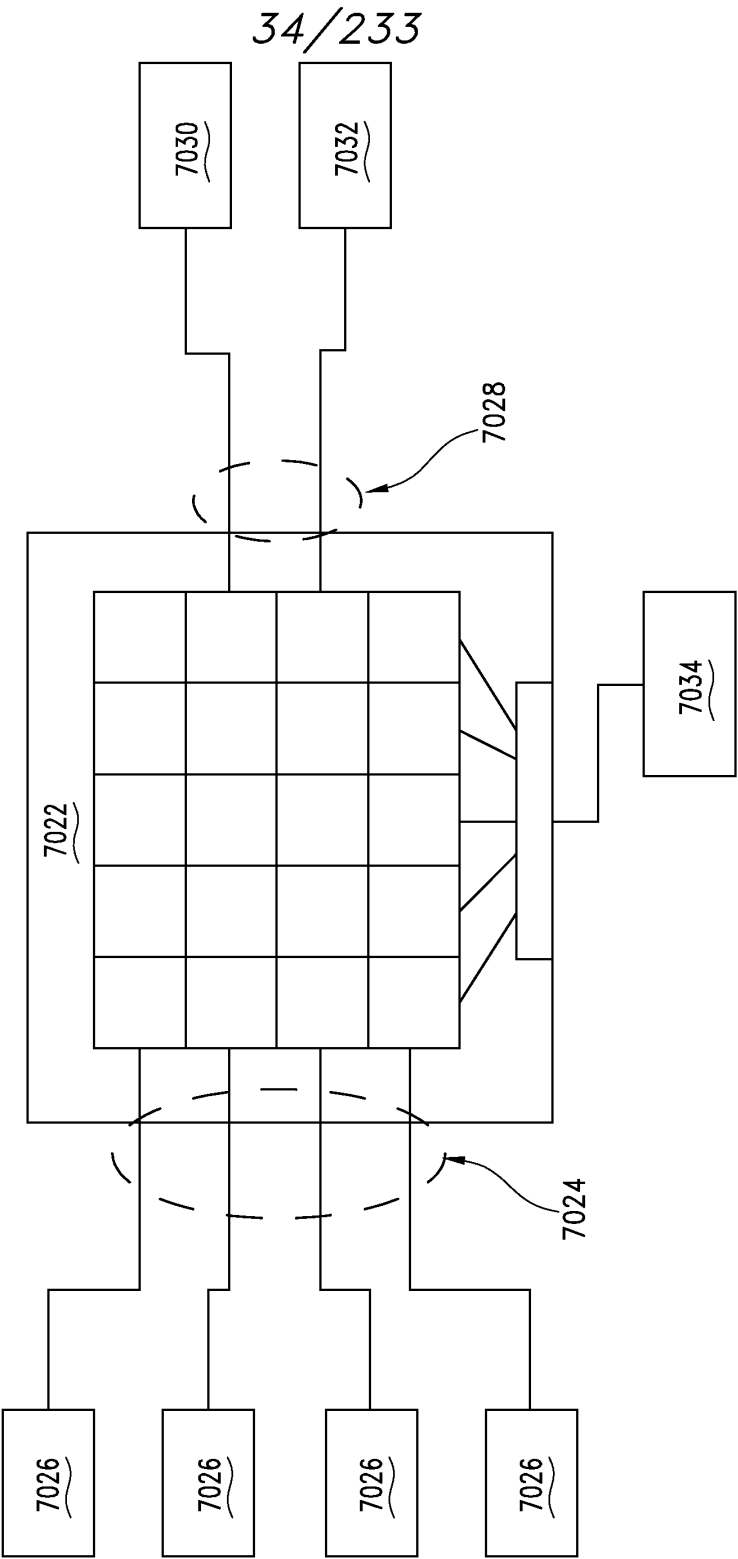
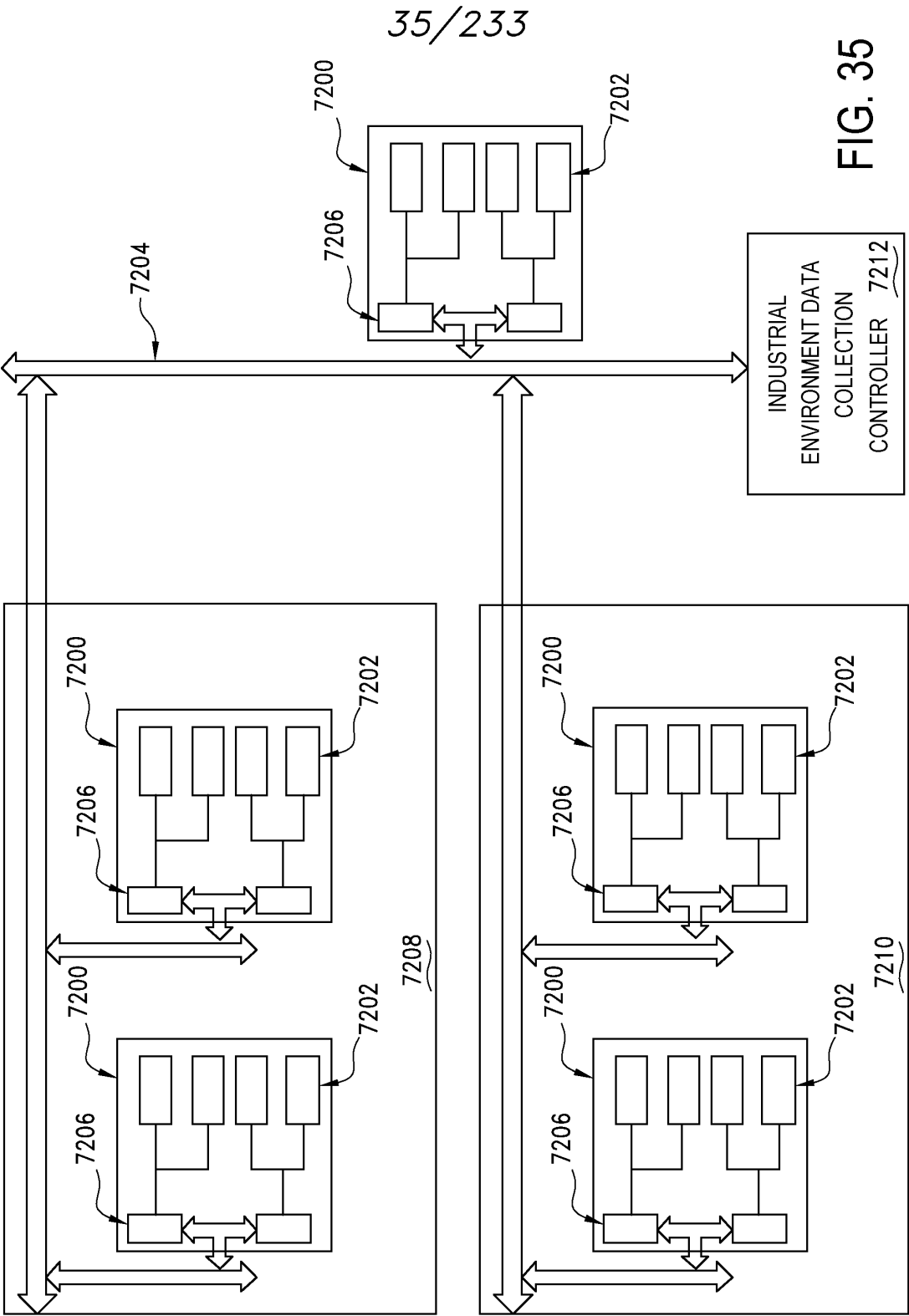


FIG. 34



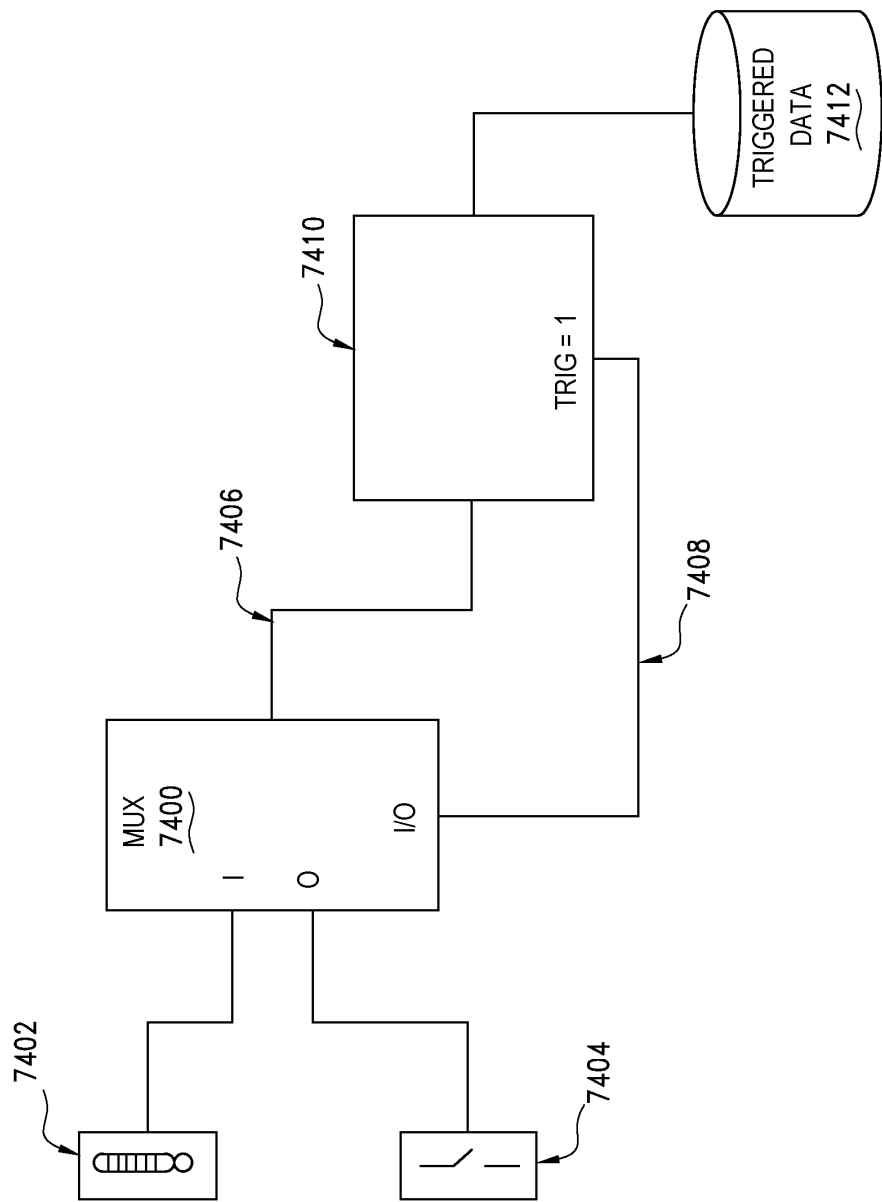


FIG. 36

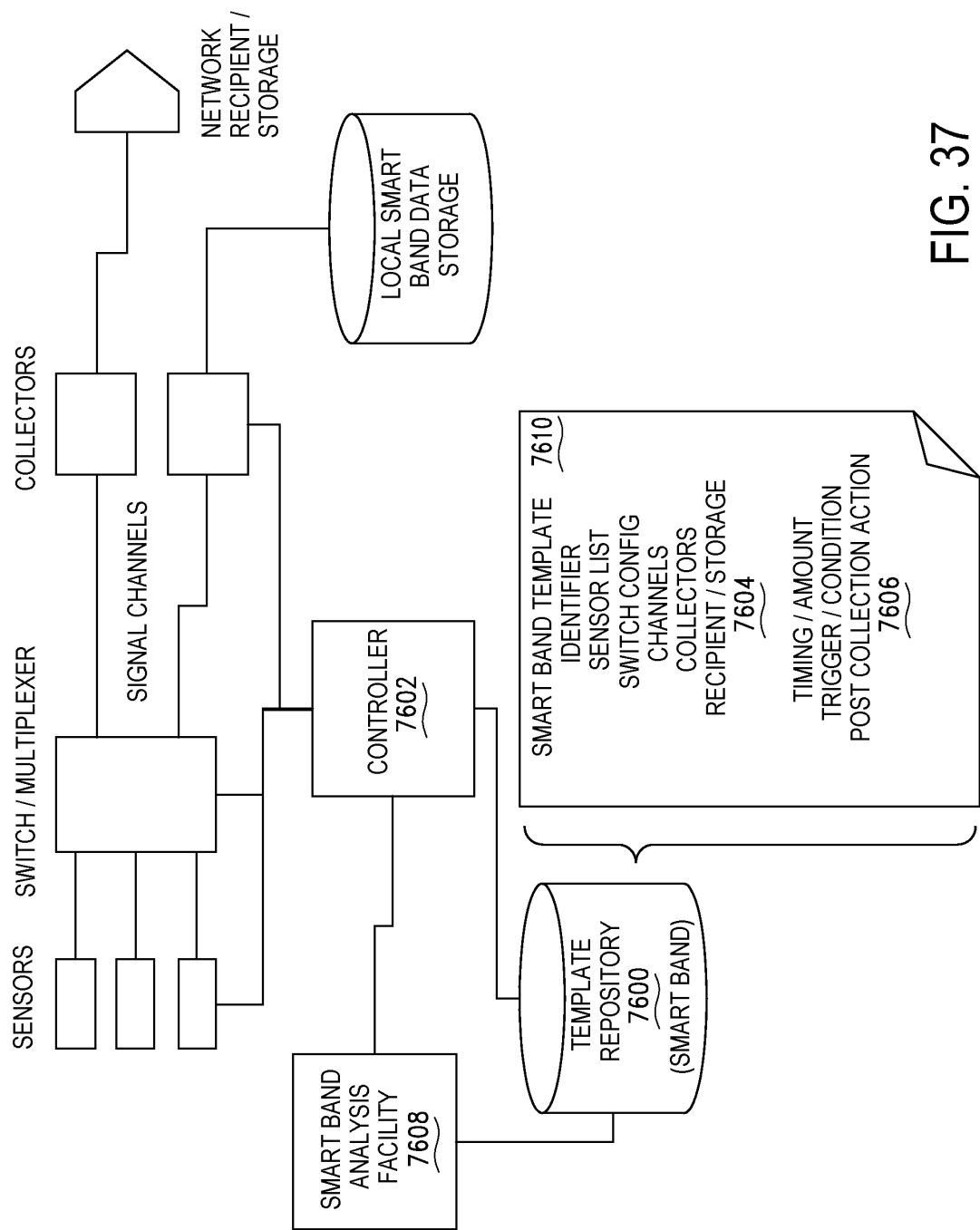


FIG. 37

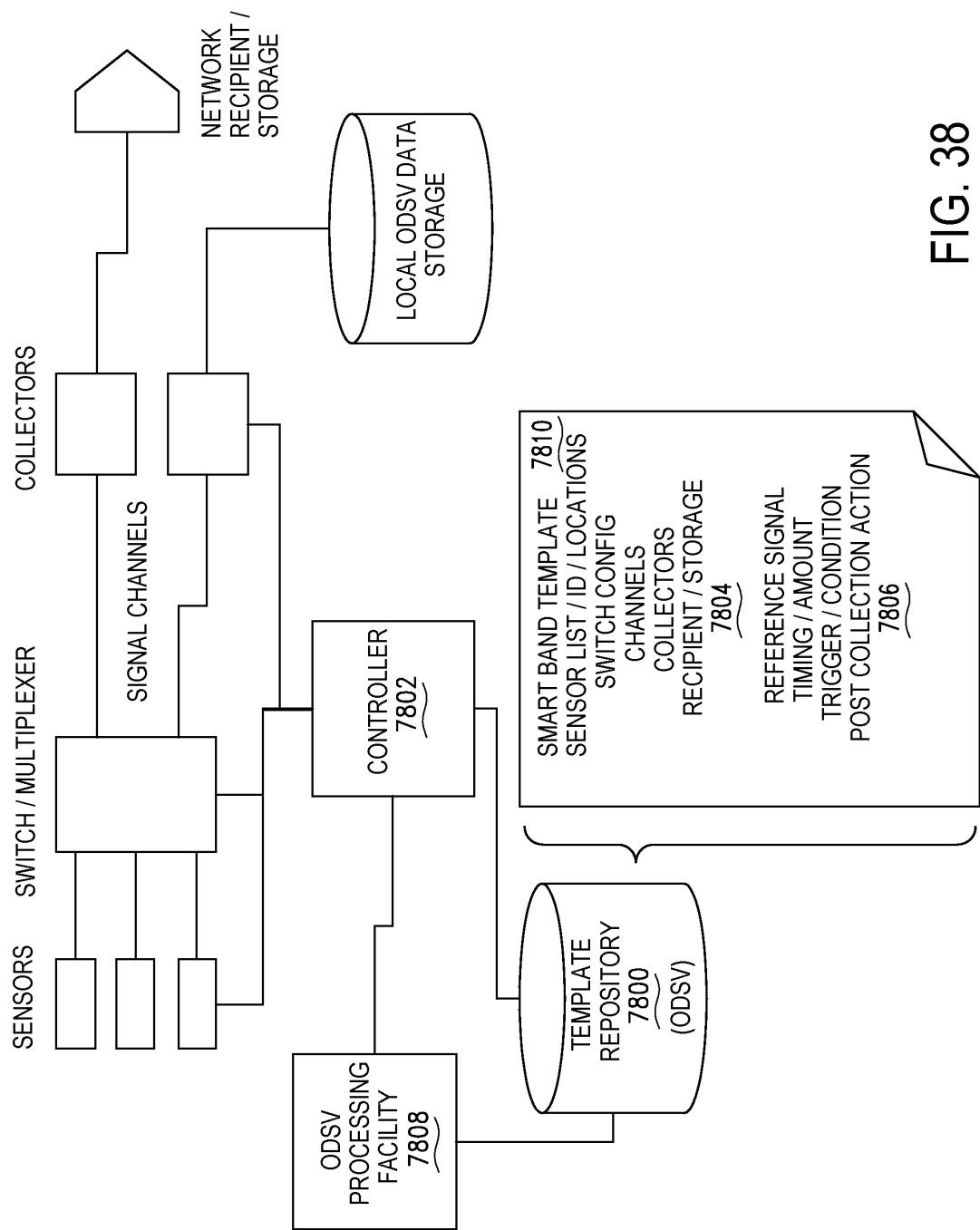


FIG. 38

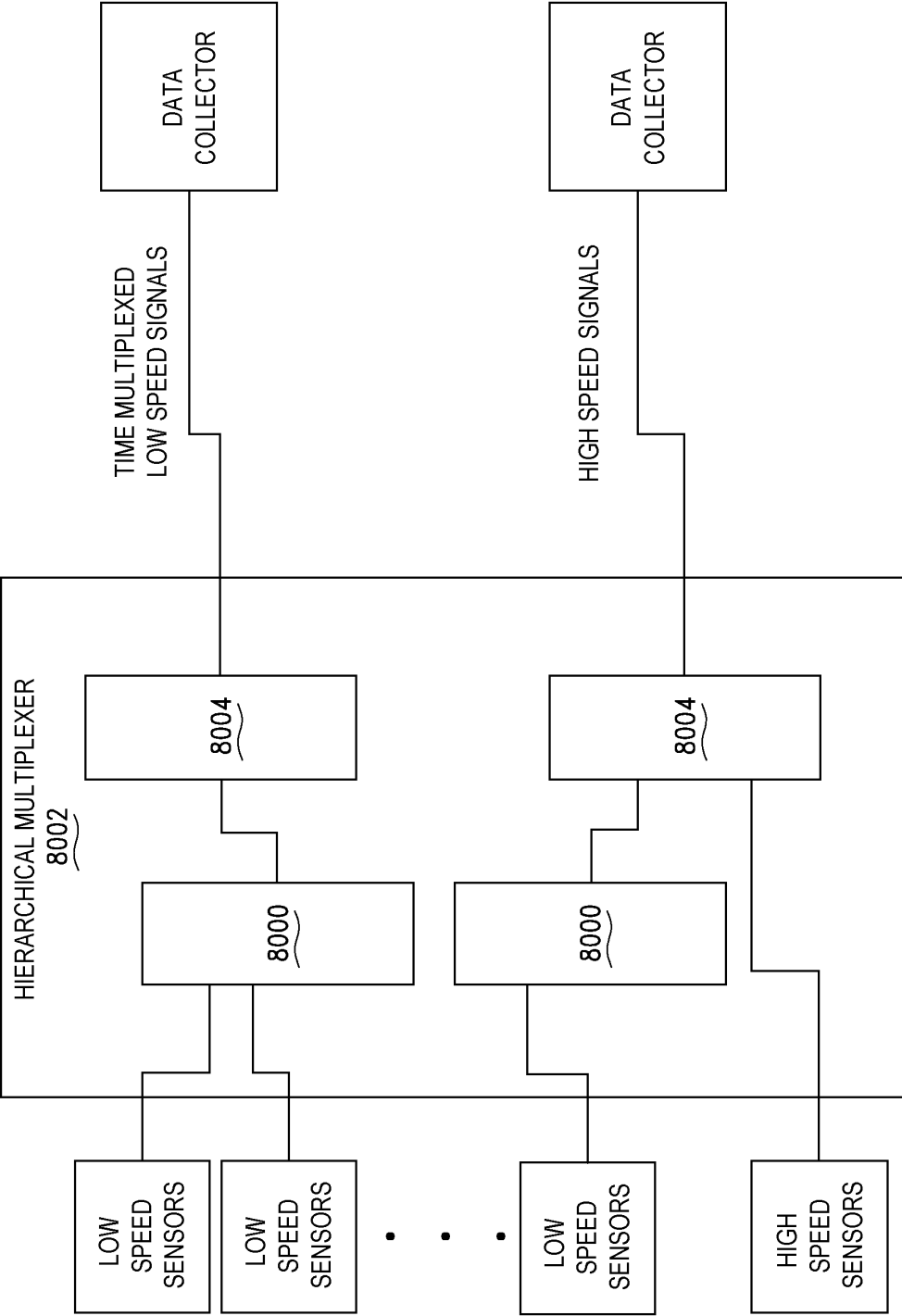


FIG. 39

40/233

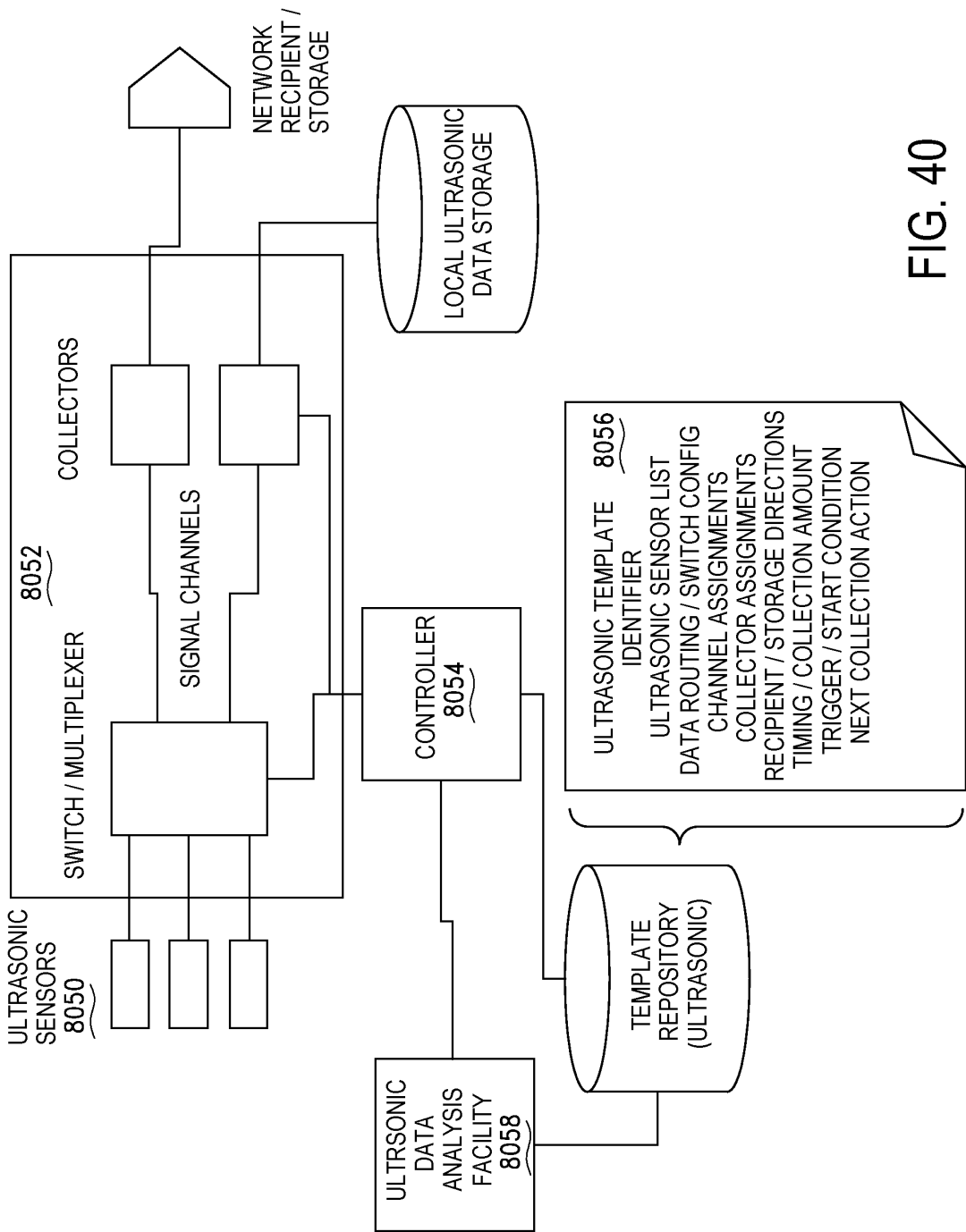


FIG. 40

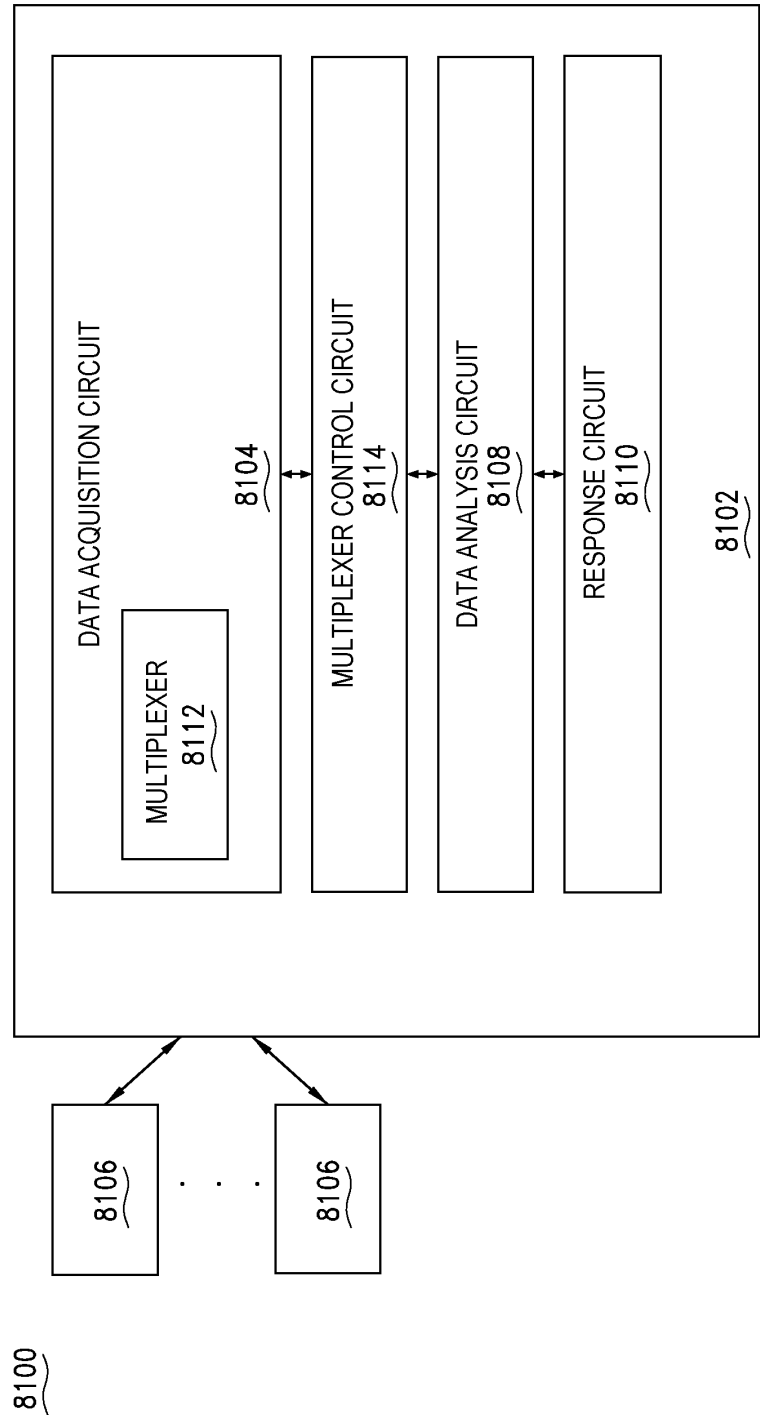


FIG. 41

42/233

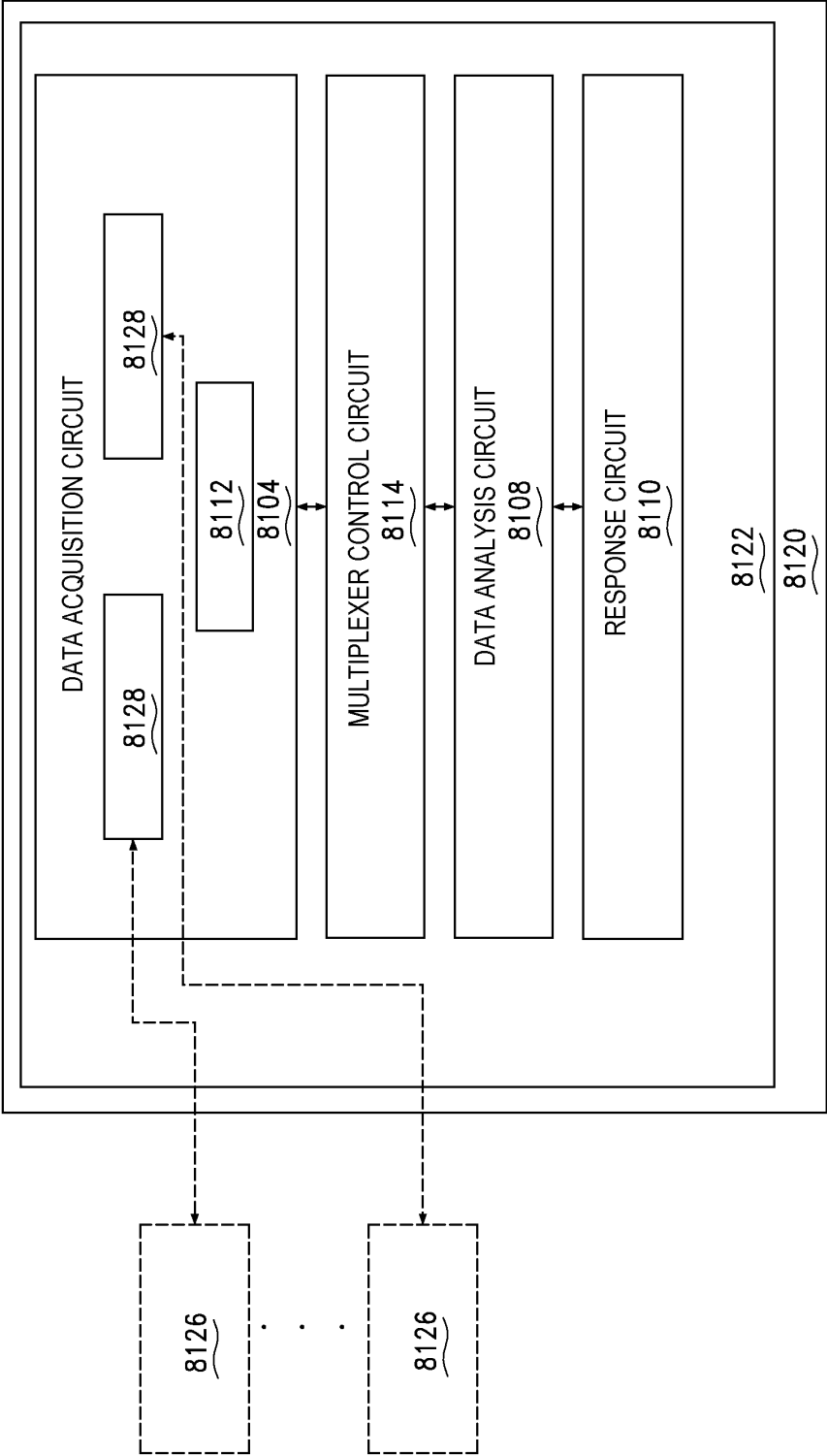


FIG. 42

43/233

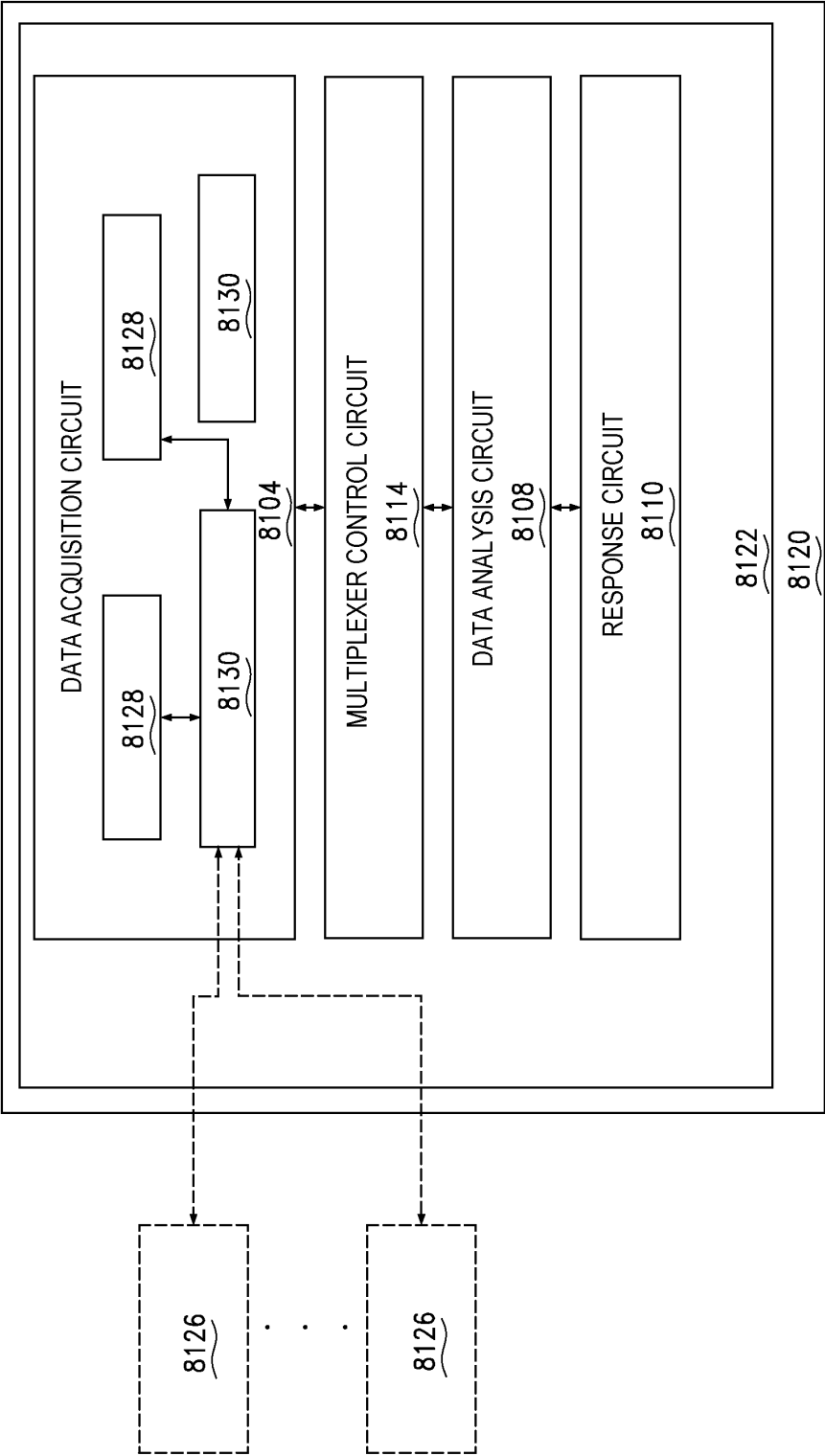


FIG. 43

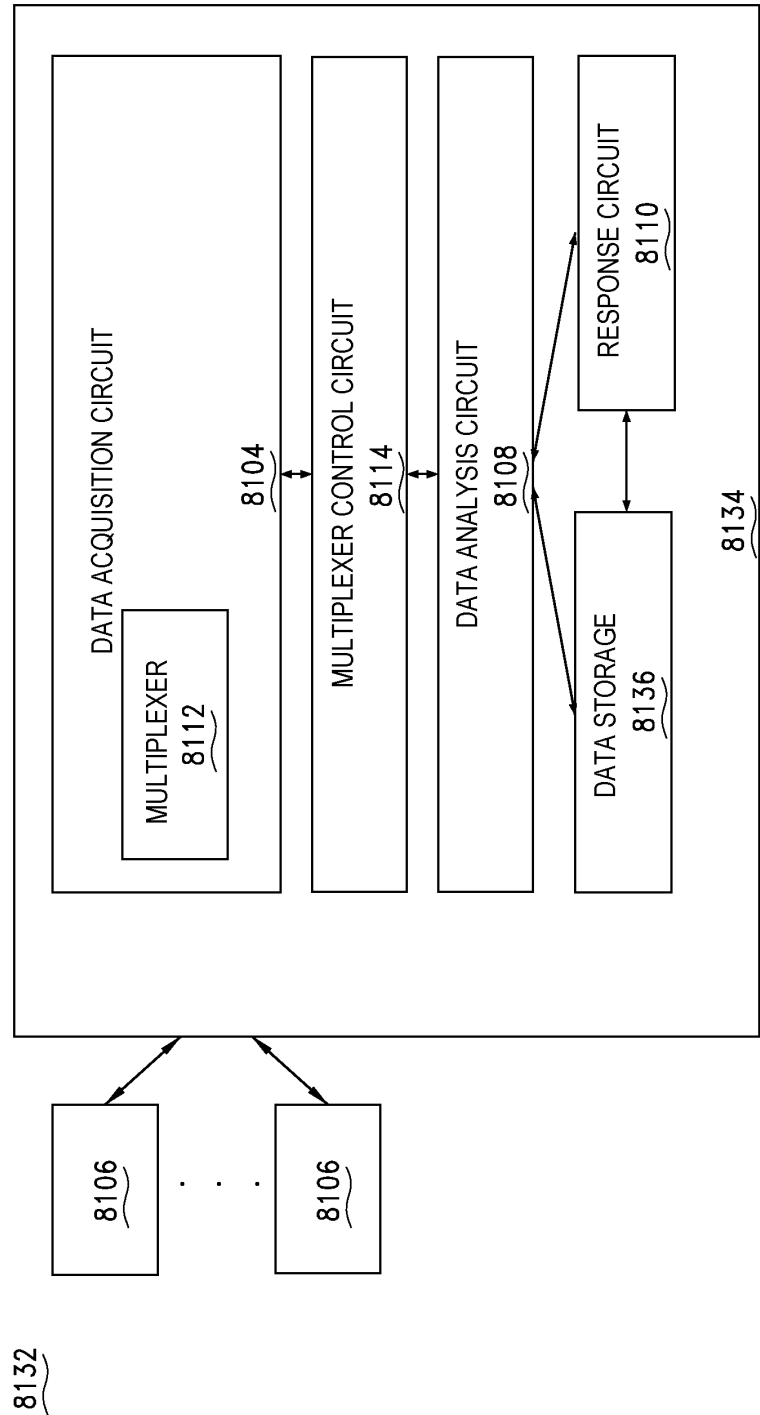


FIG. 44

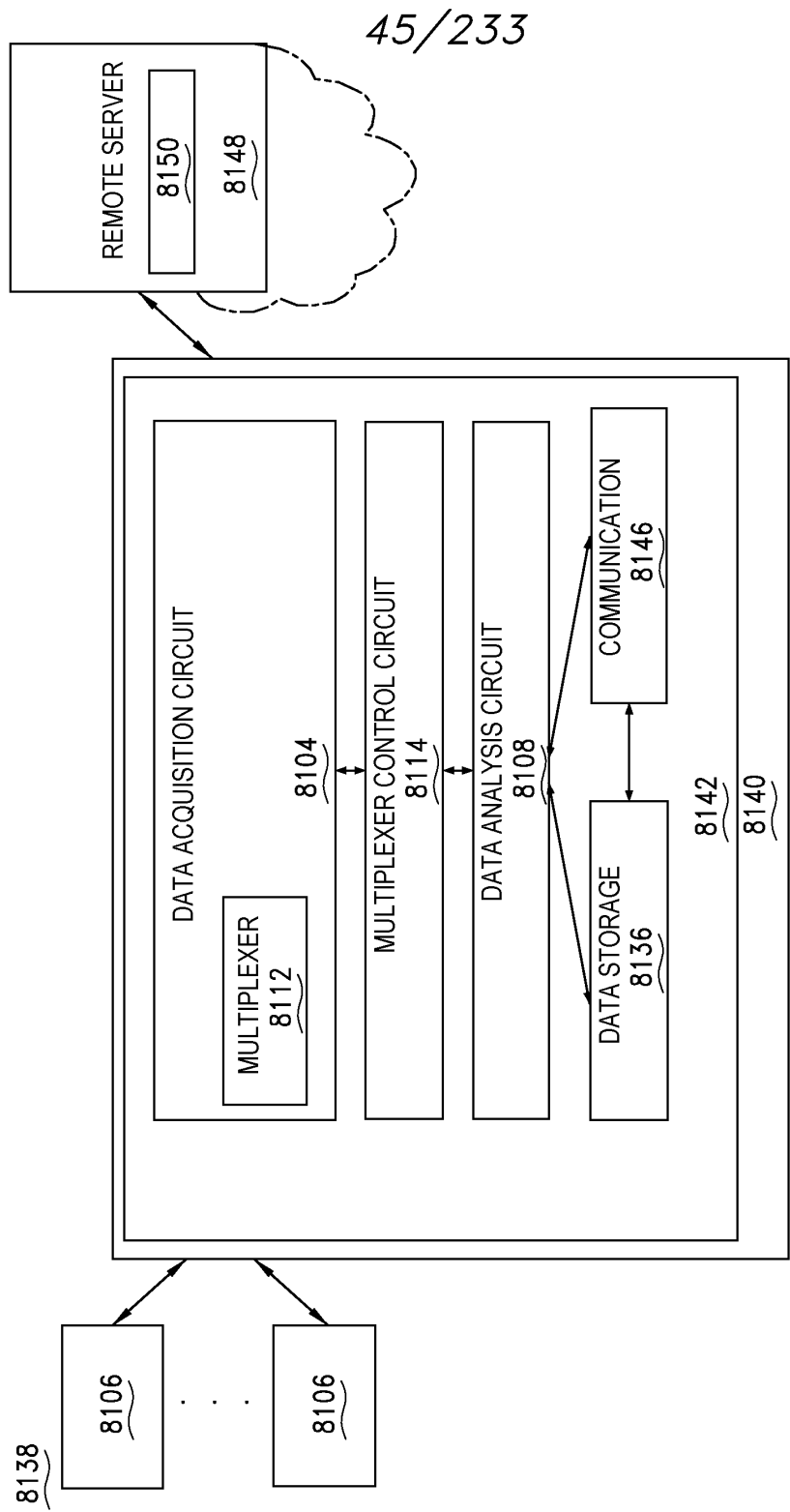


FIG. 45

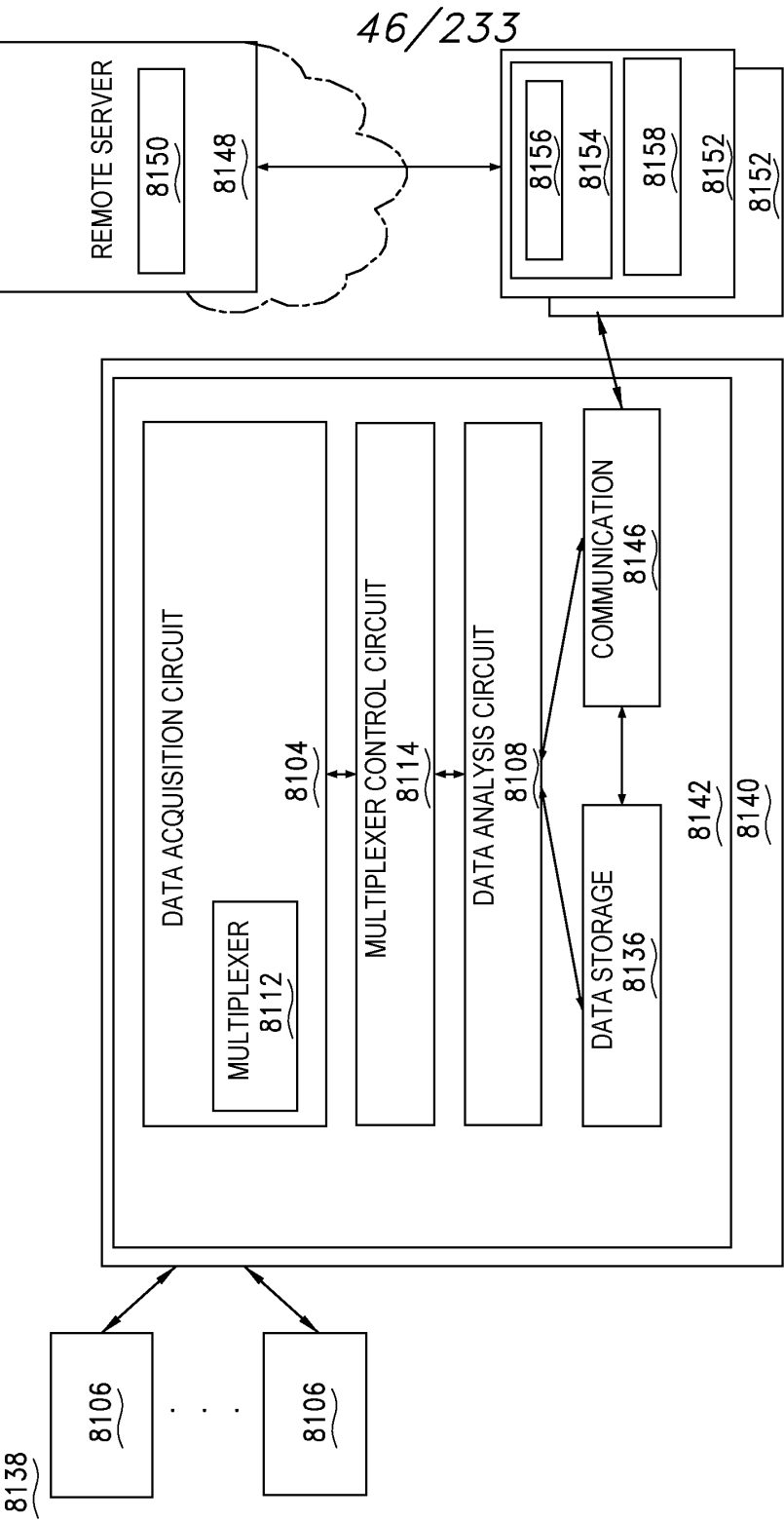


FIG. 46

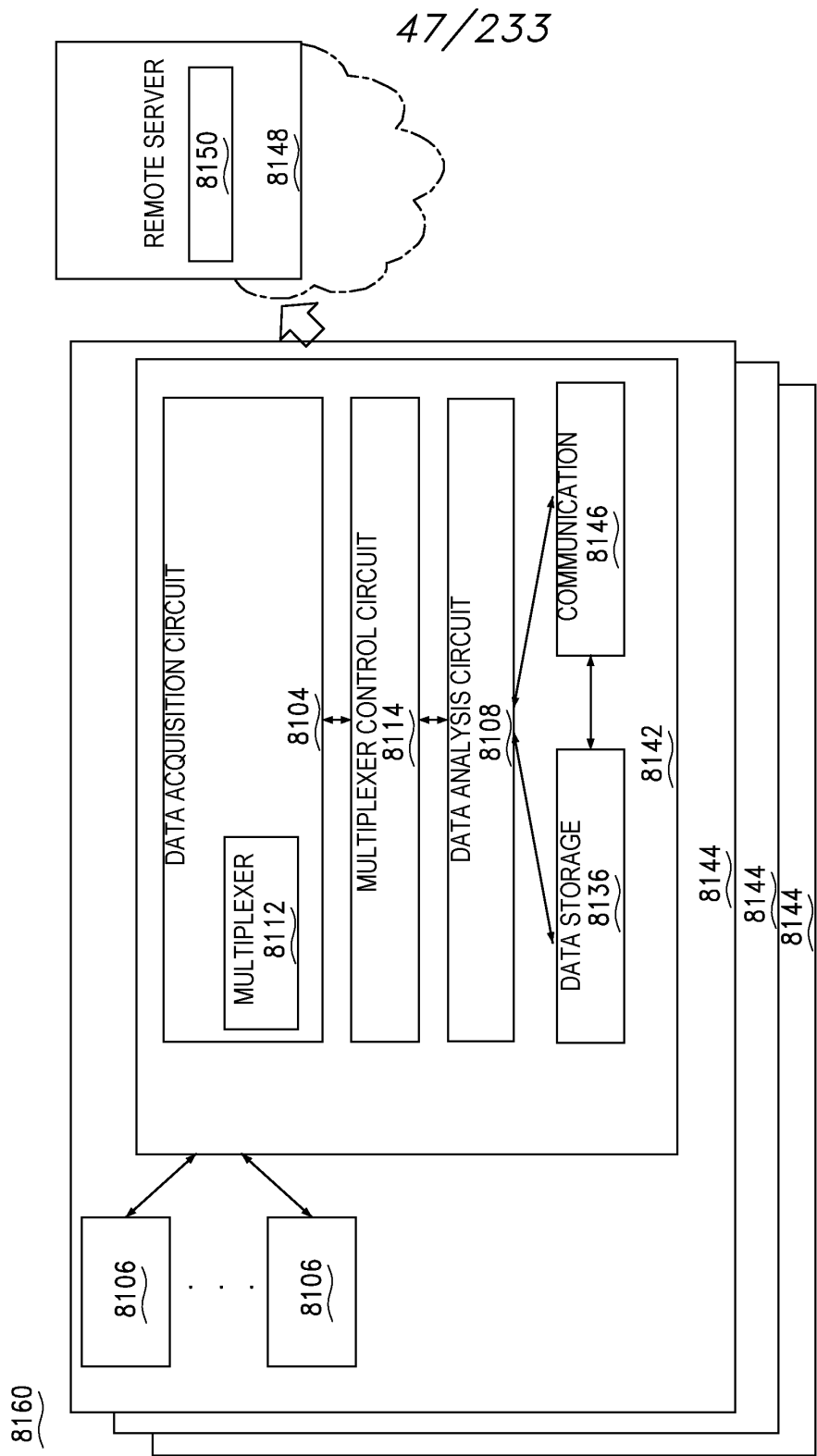


FIG. 47

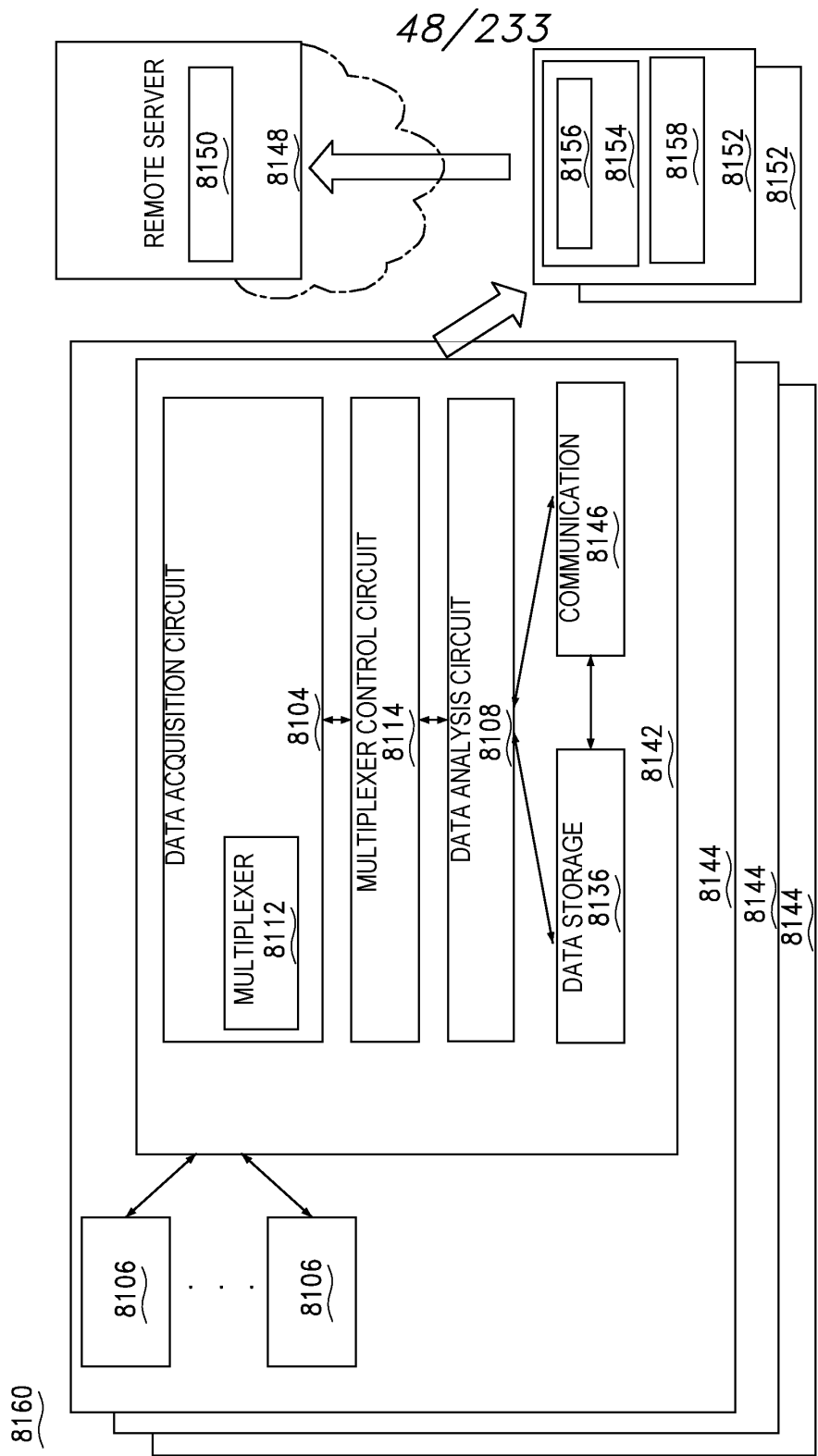


FIG. 48

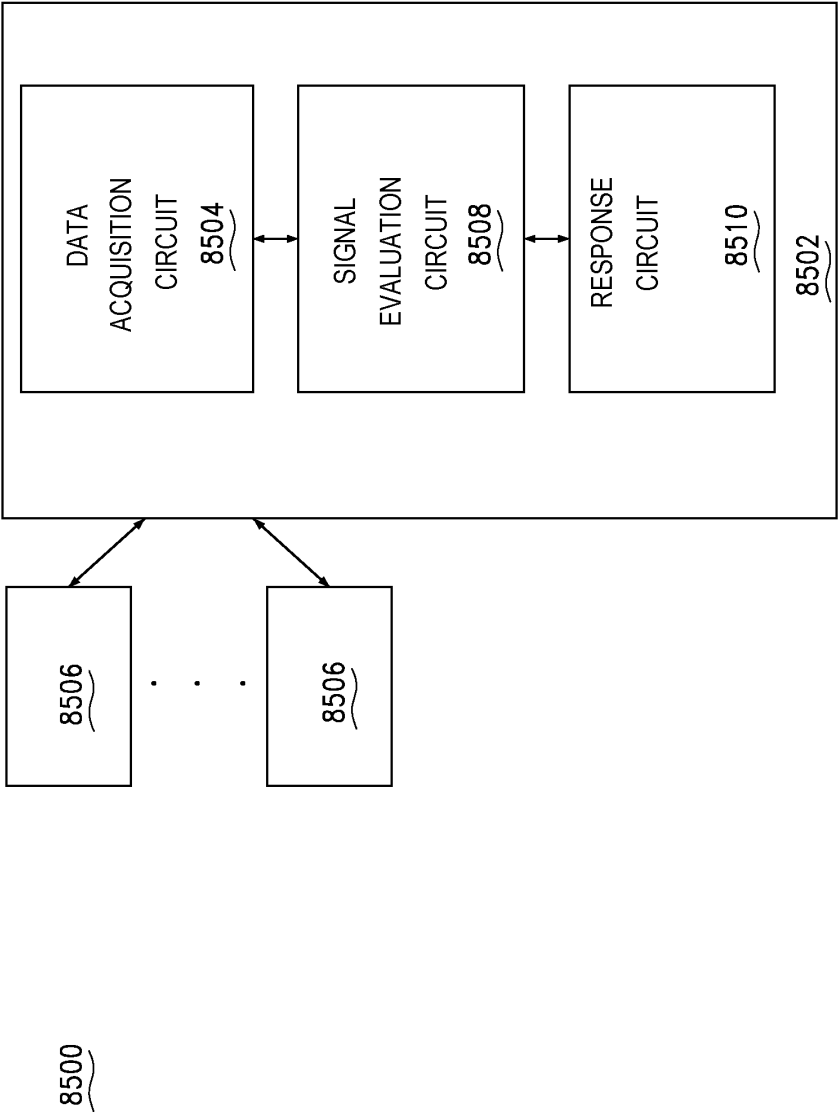


FIG. 49

50/233

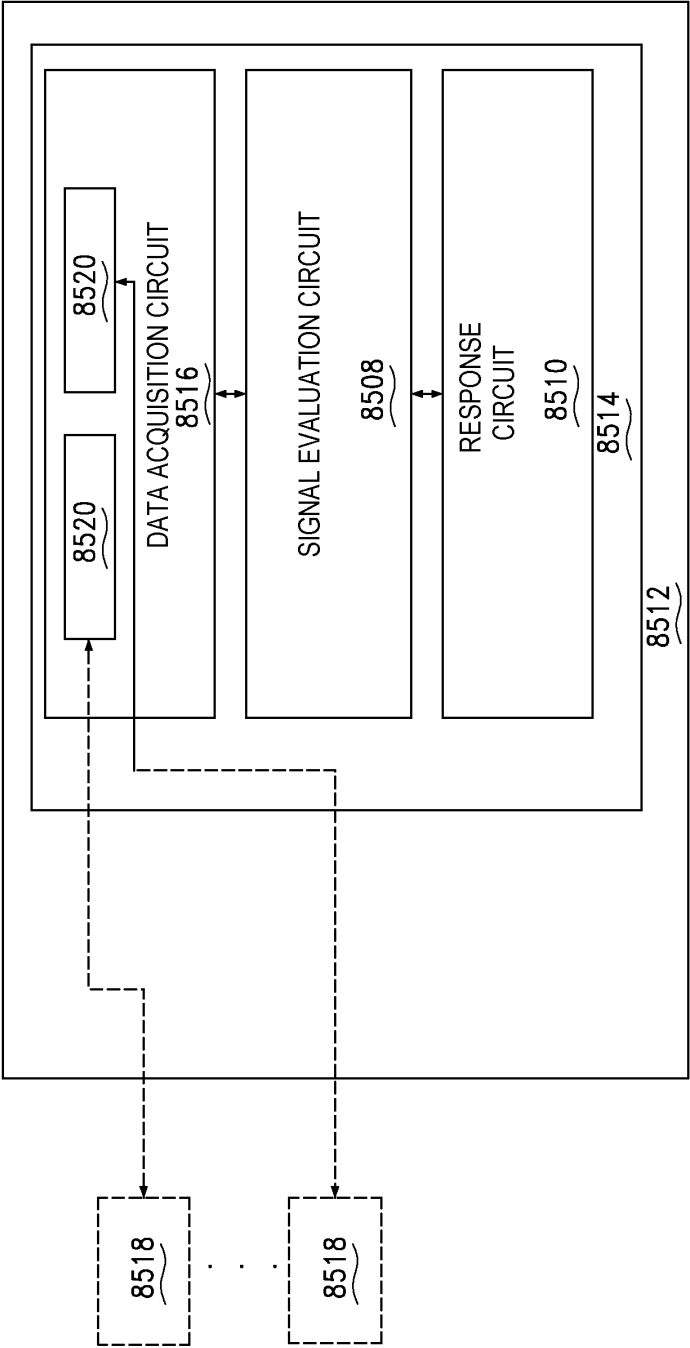


FIG. 50

51/233

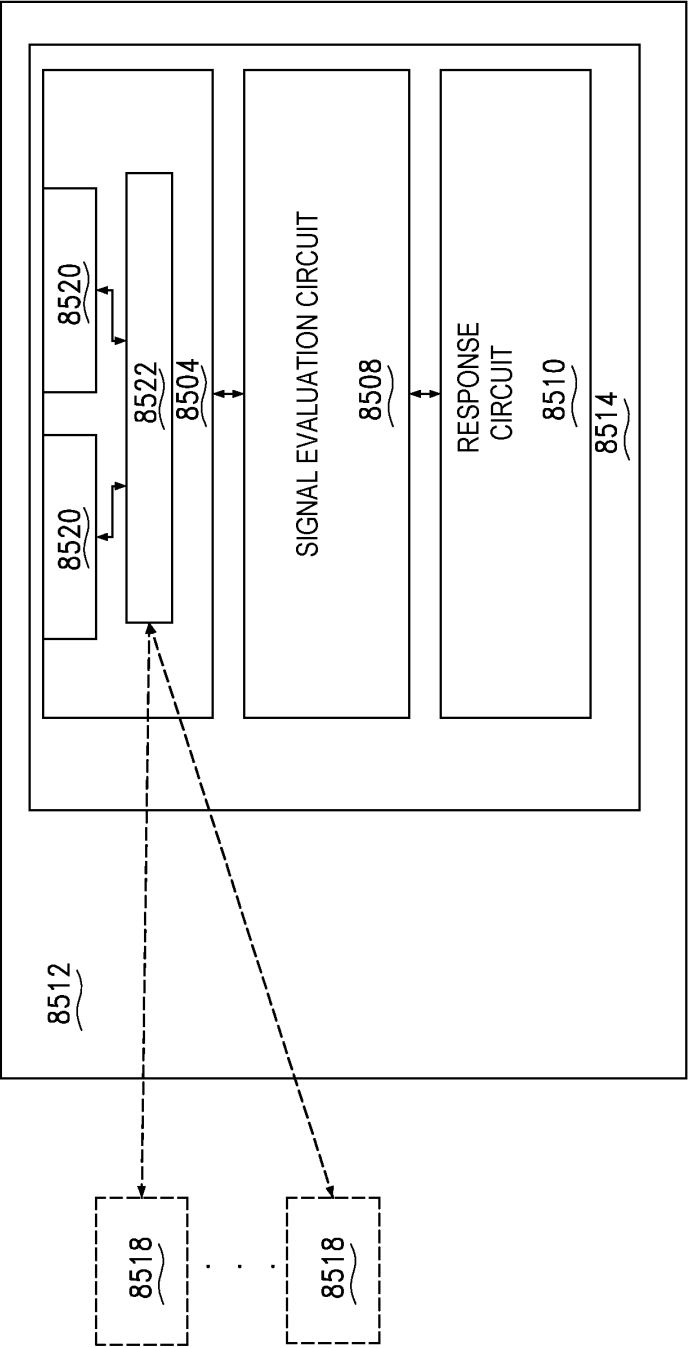


FIG. 51

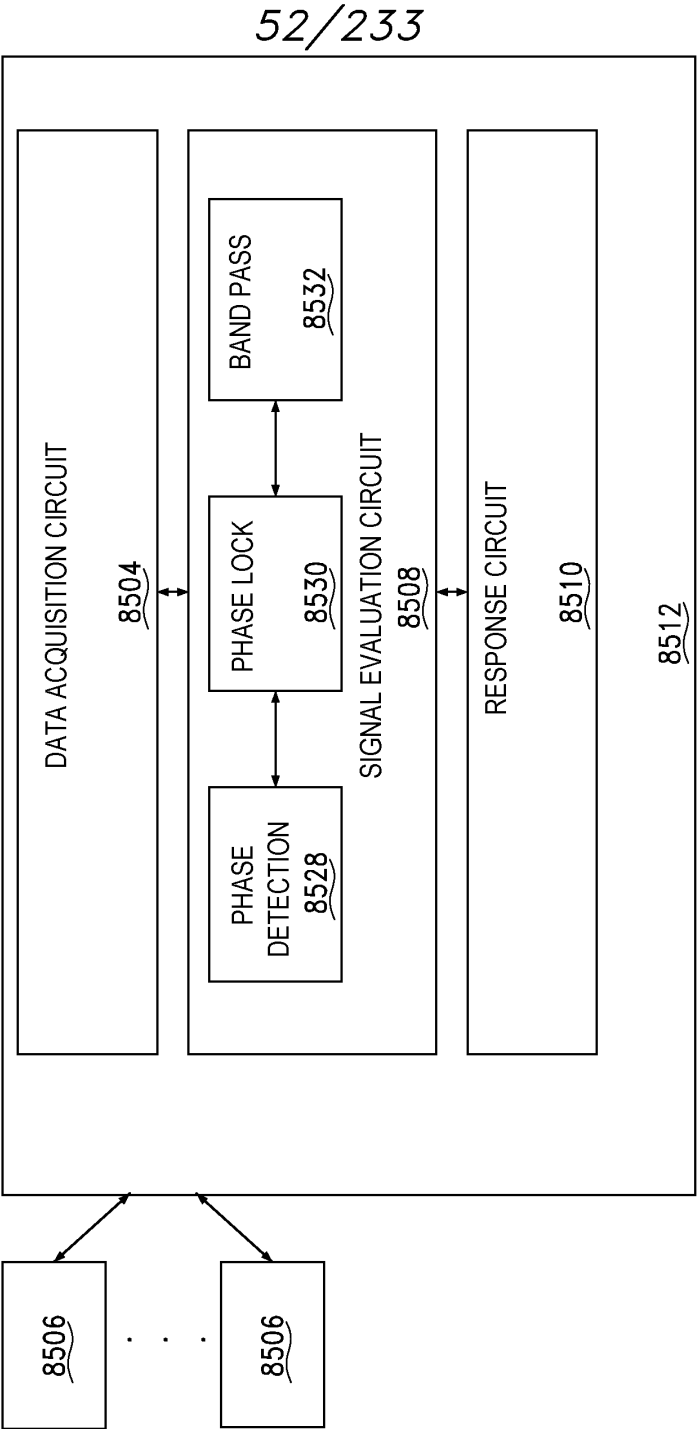


FIG. 52

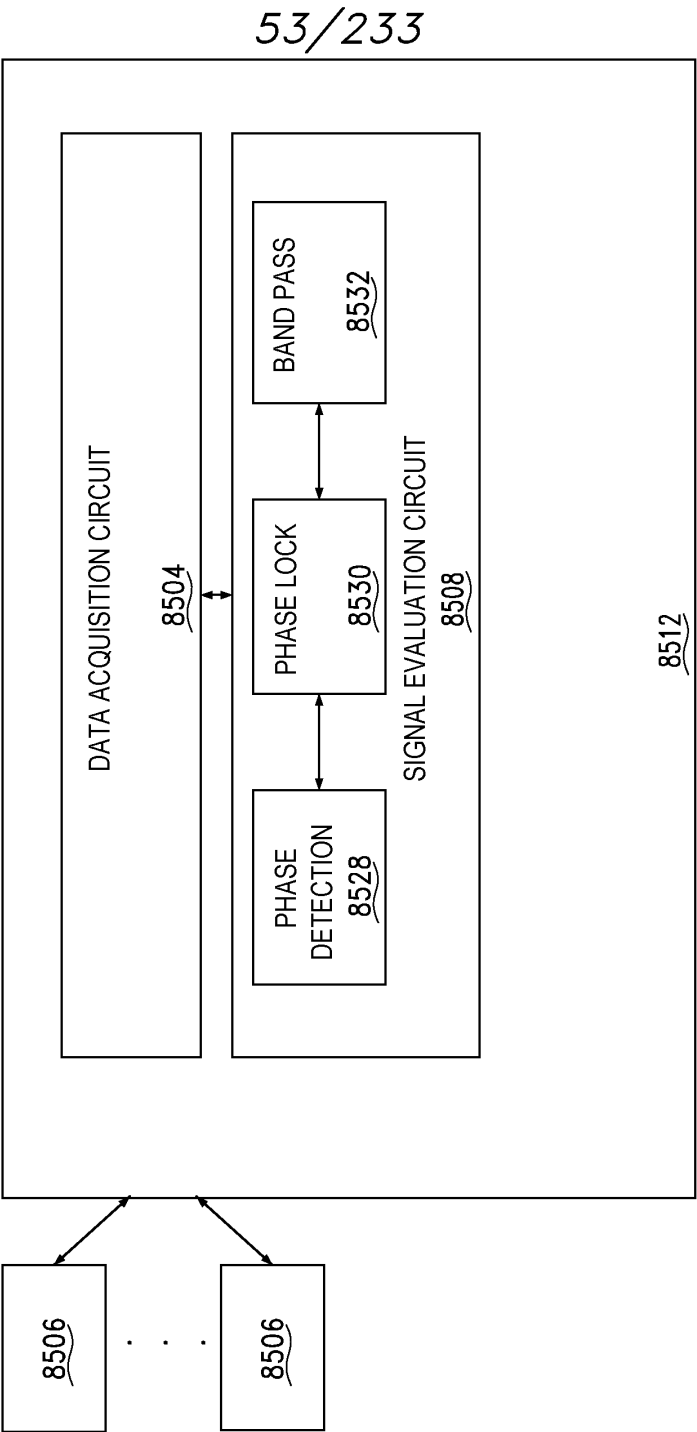


FIG. 53

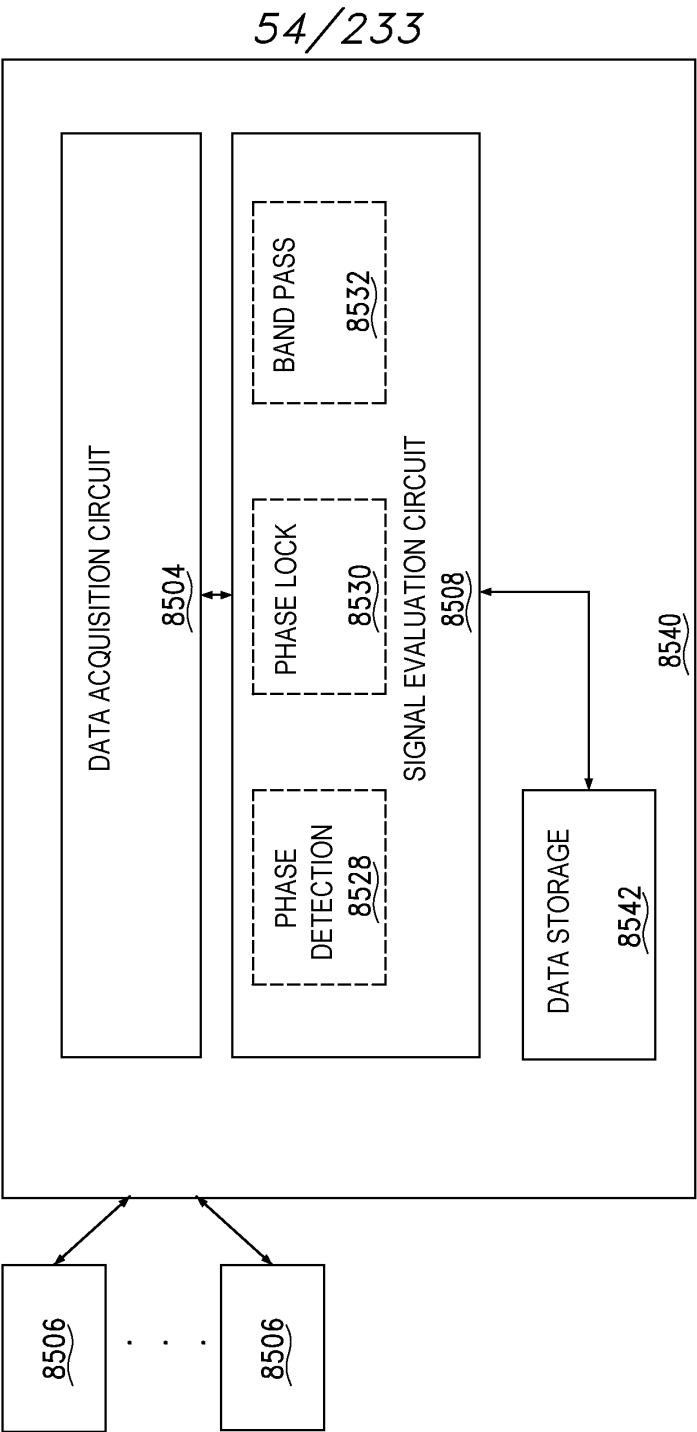


FIG. 54

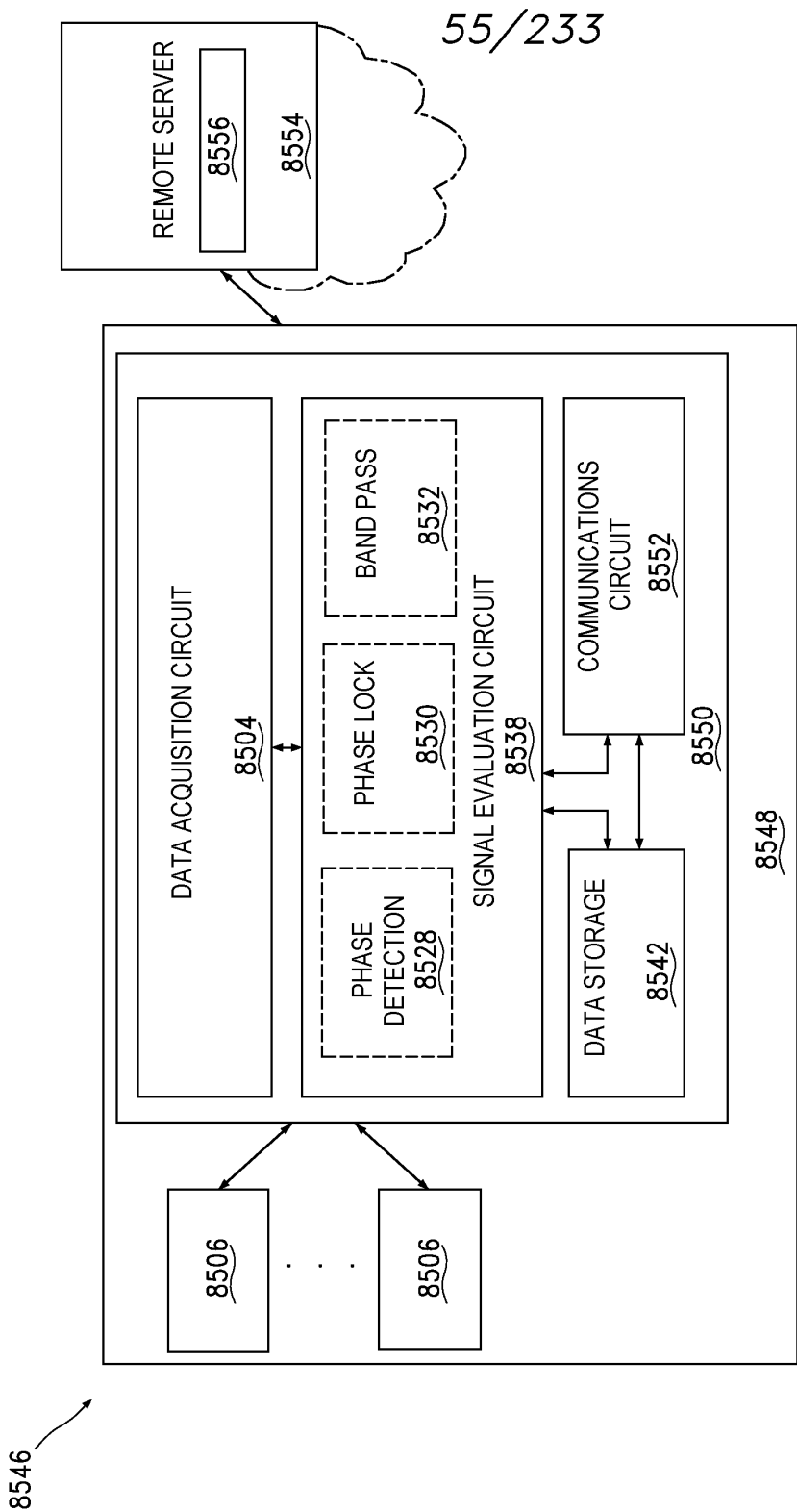


FIG. 55

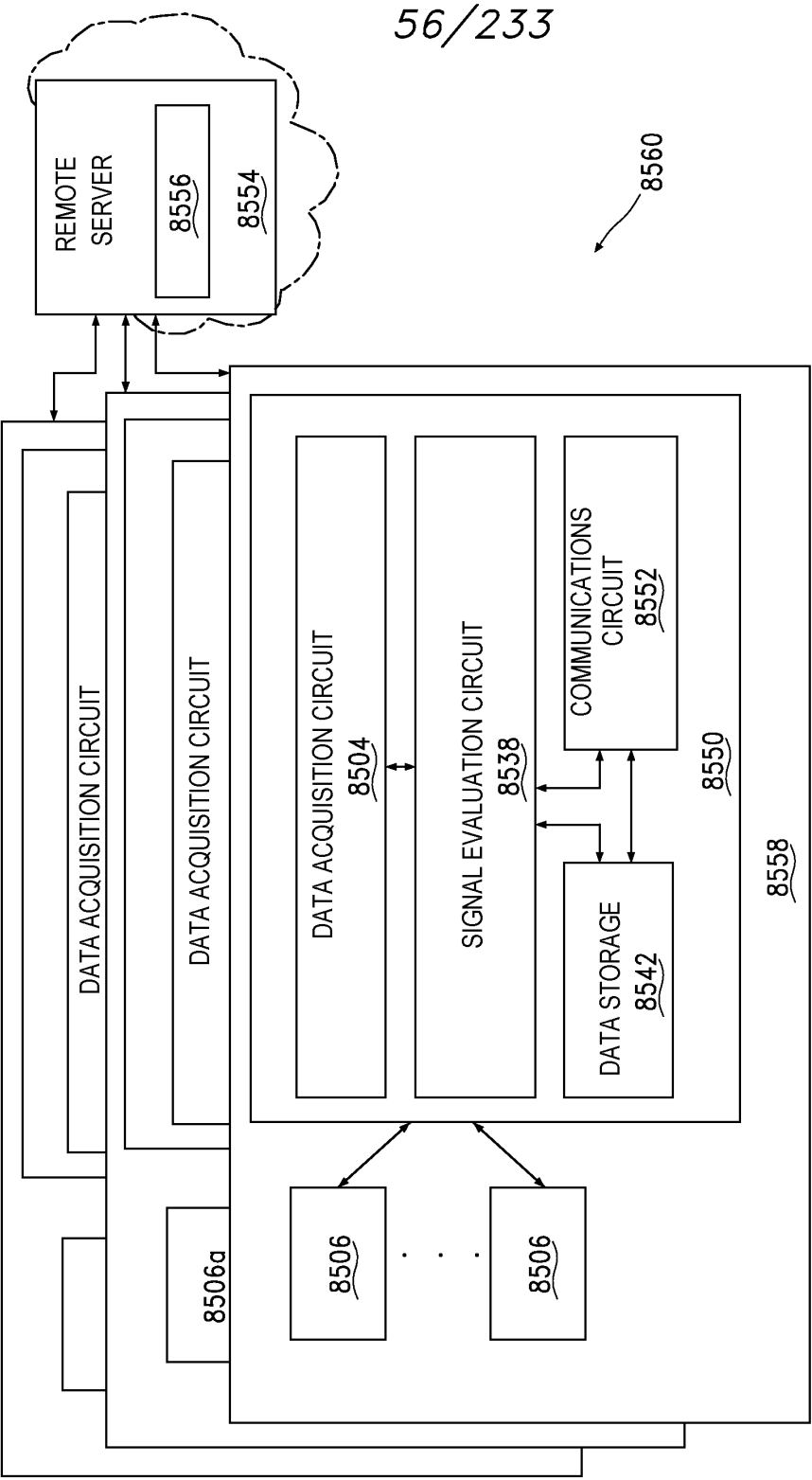


FIG. 56

57/233

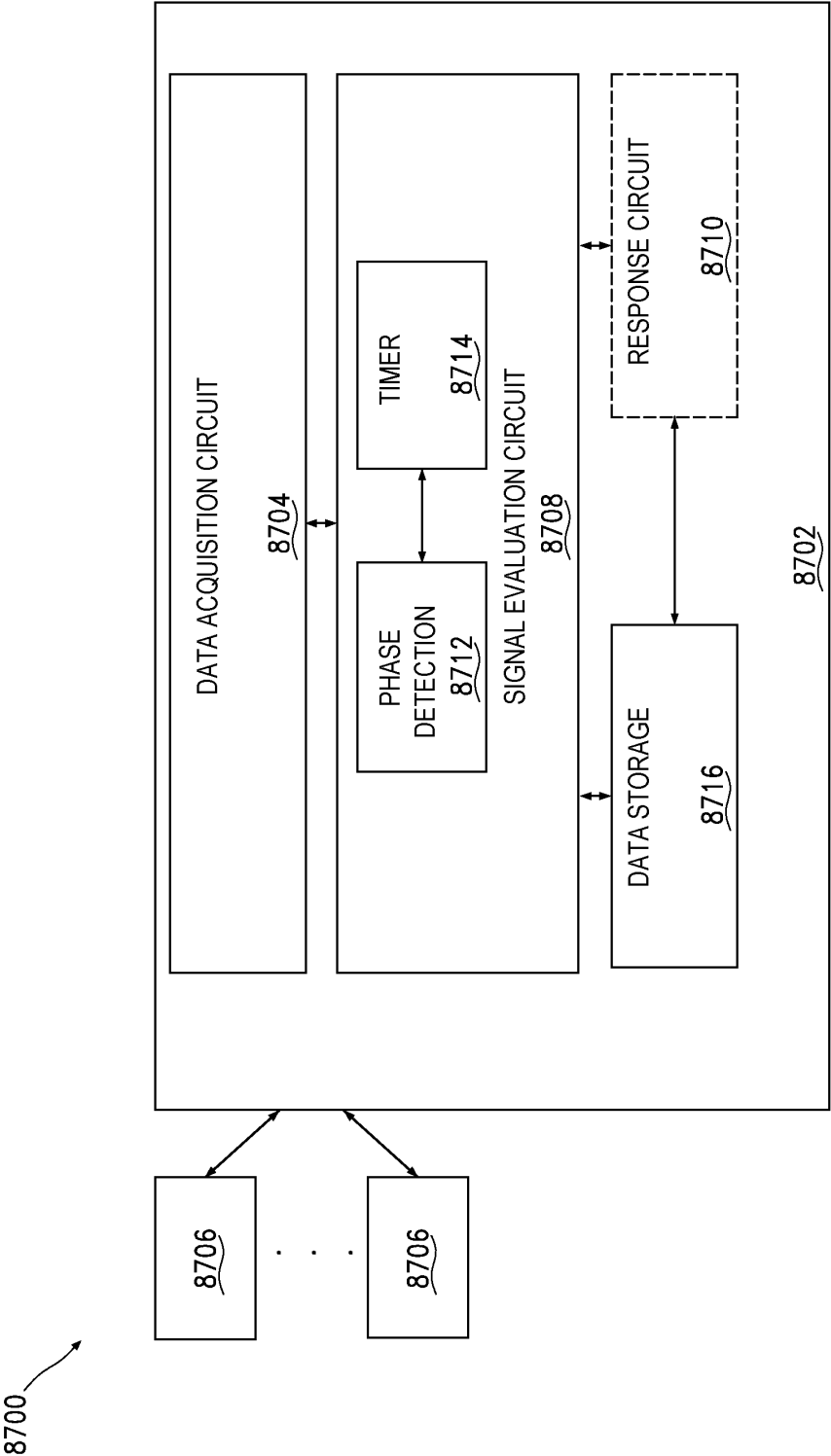


FIG. 57

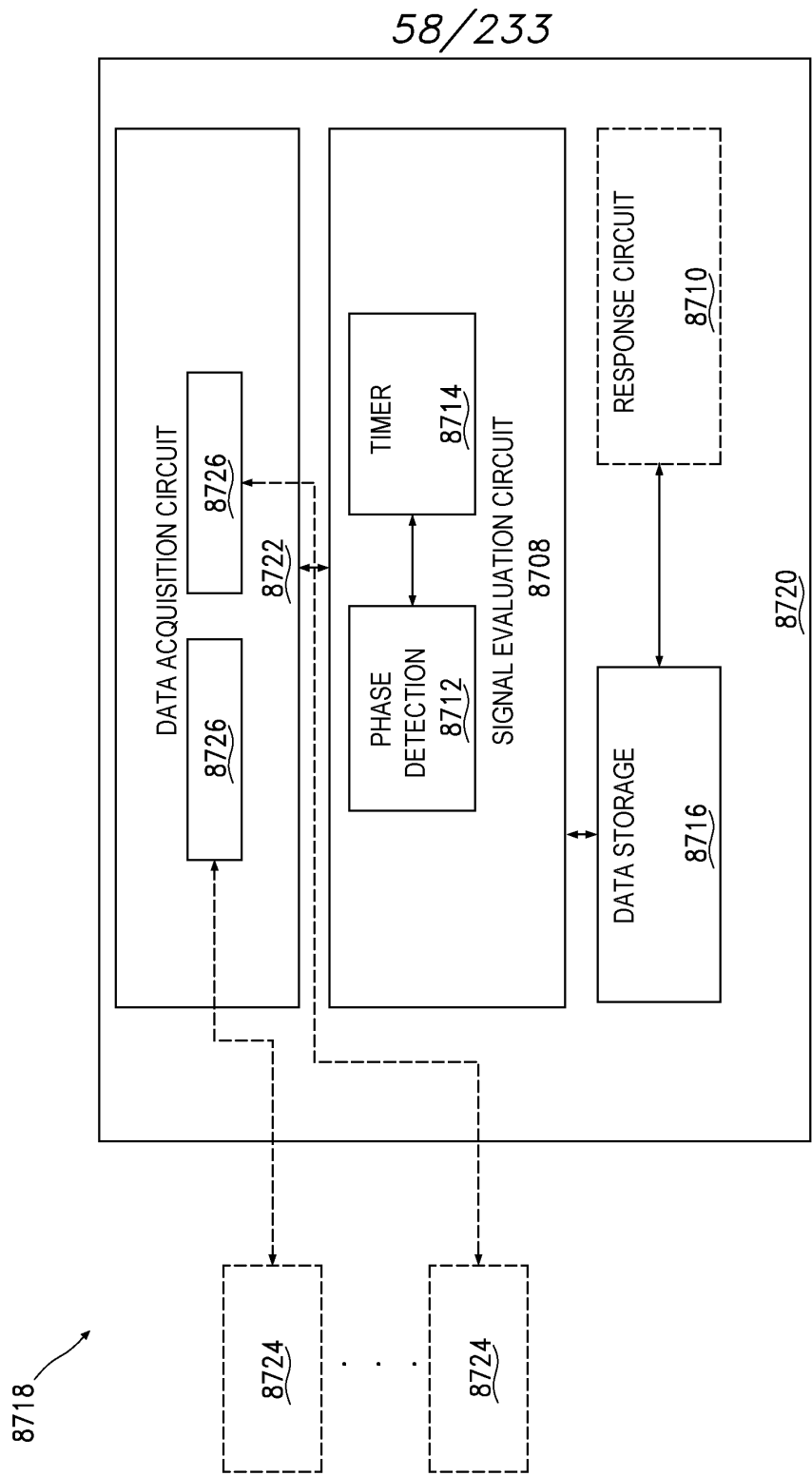


FIG. 58

59/233

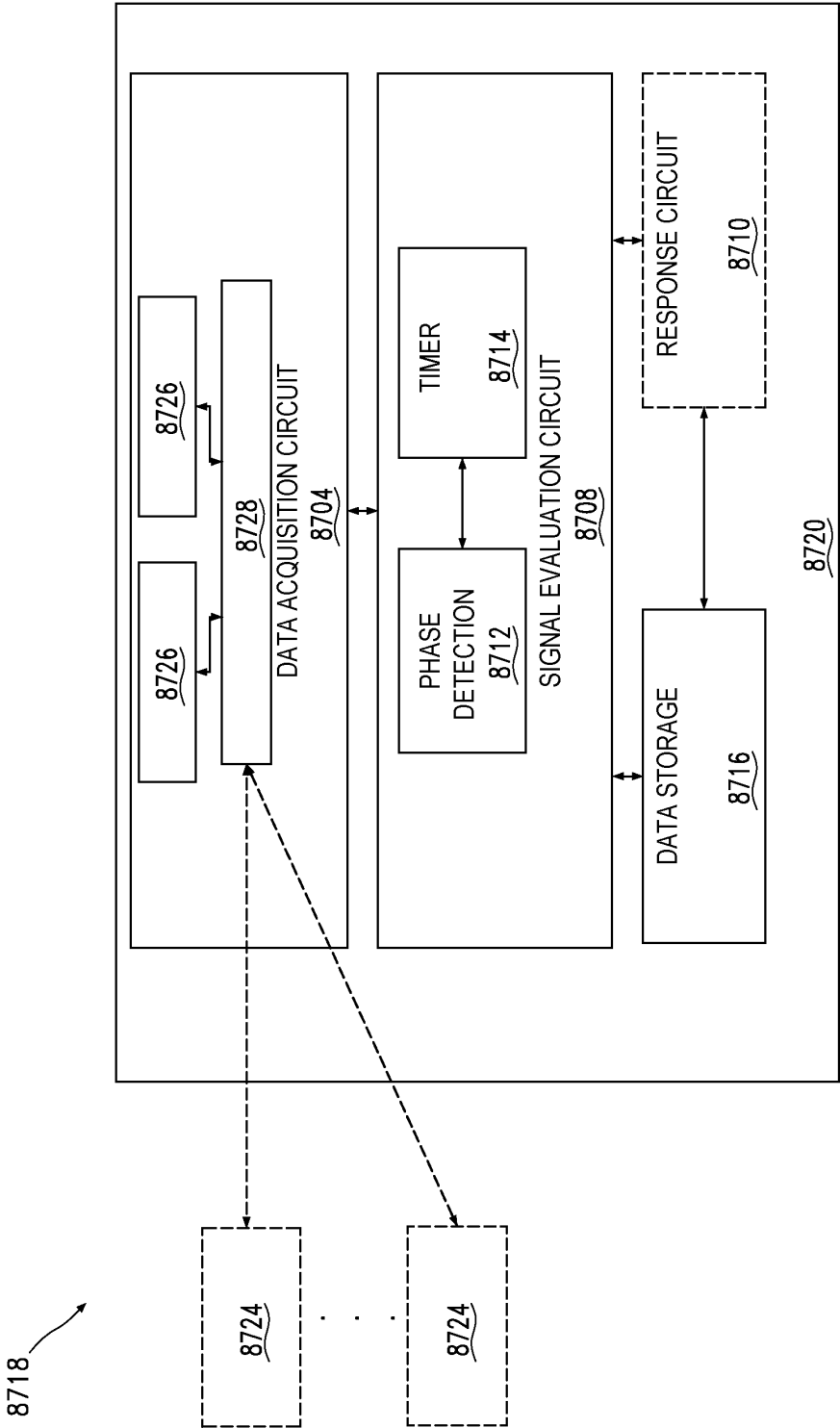


FIG. 59

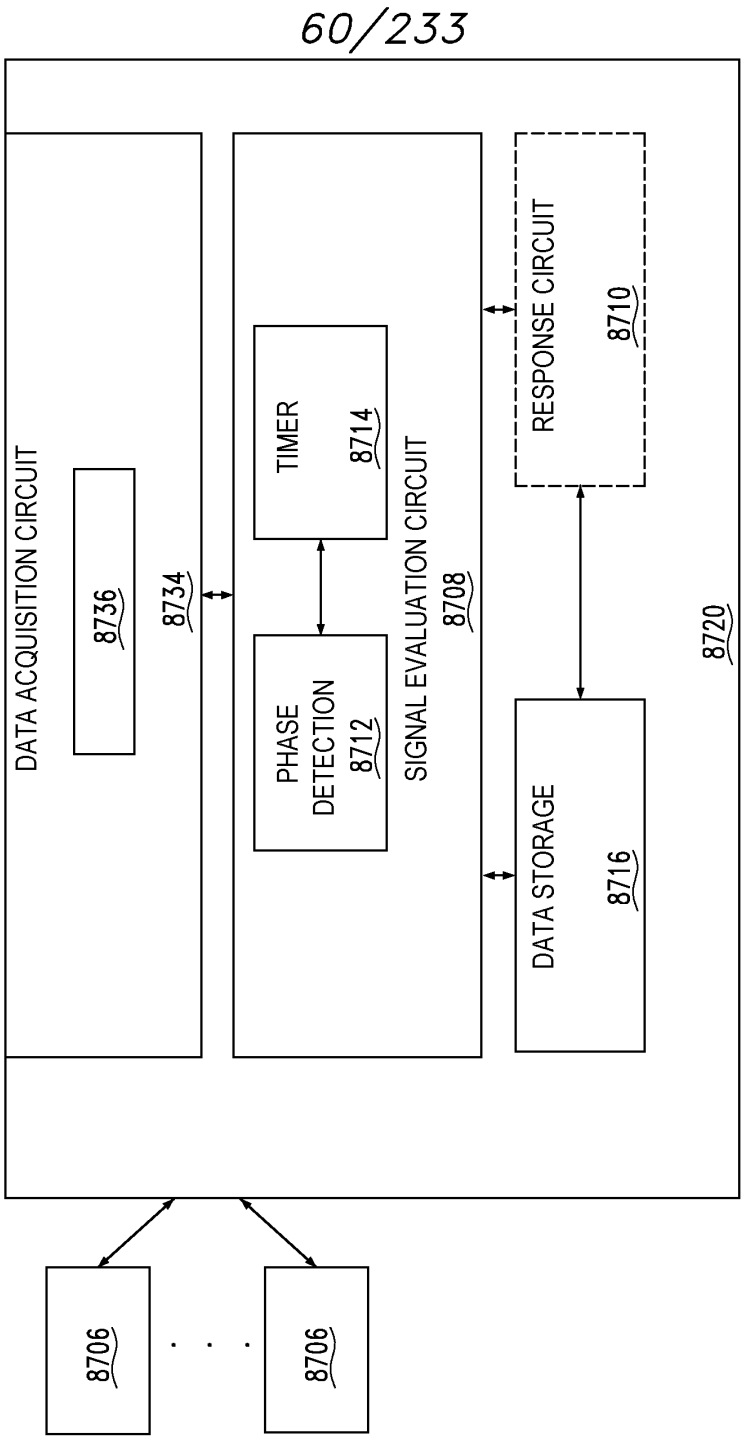


FIG. 60

61/233

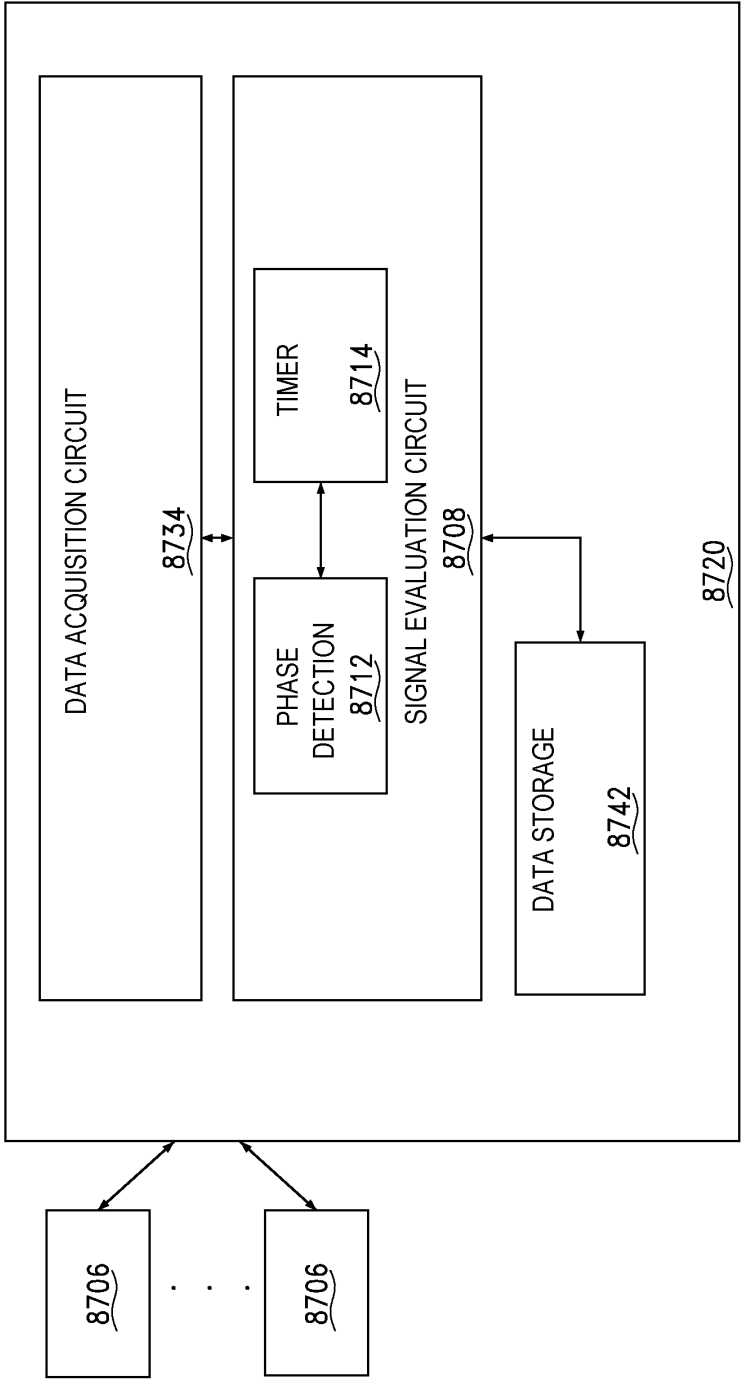


FIG. 61

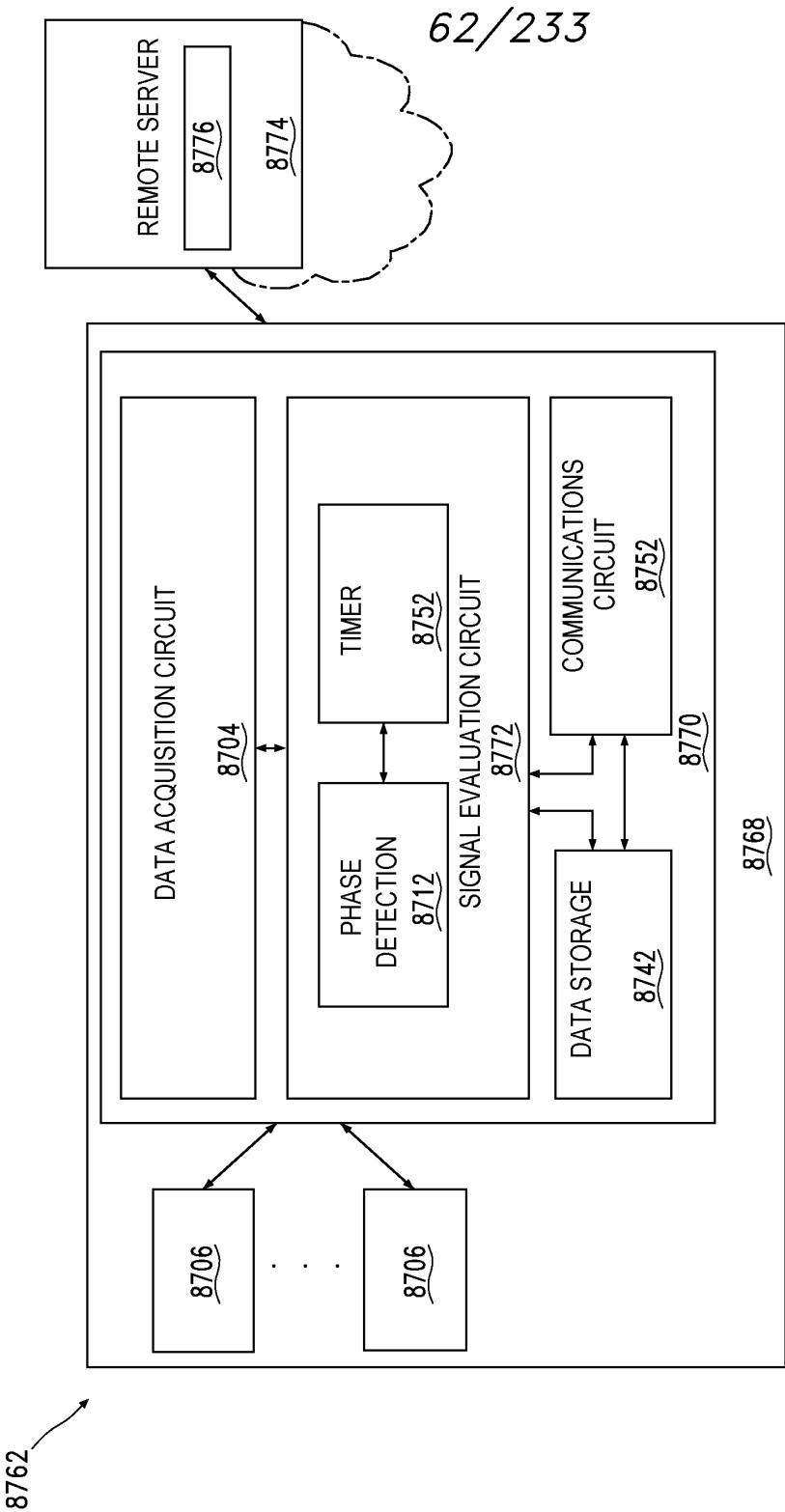


FIG. 62

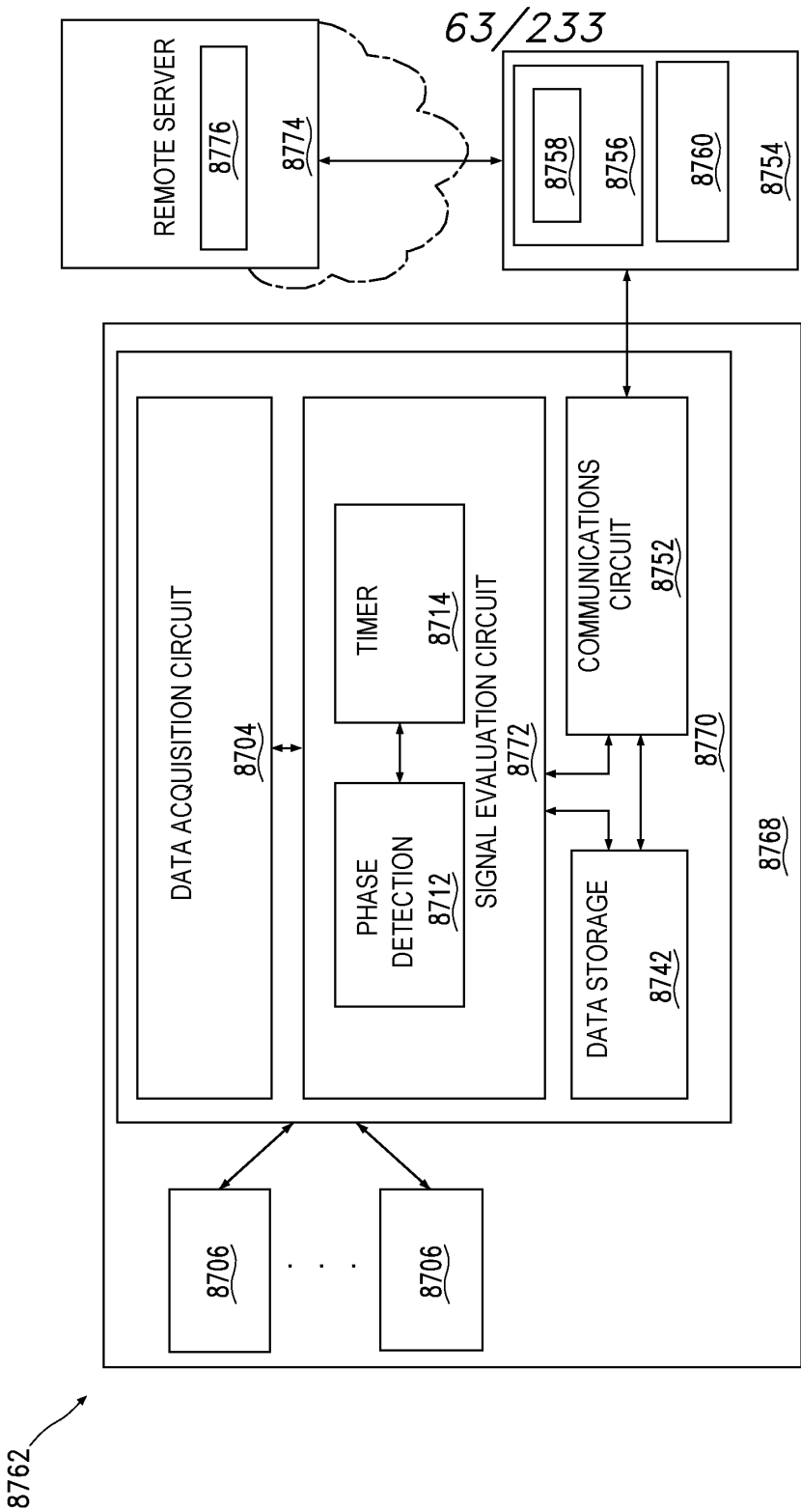


FIG. 63

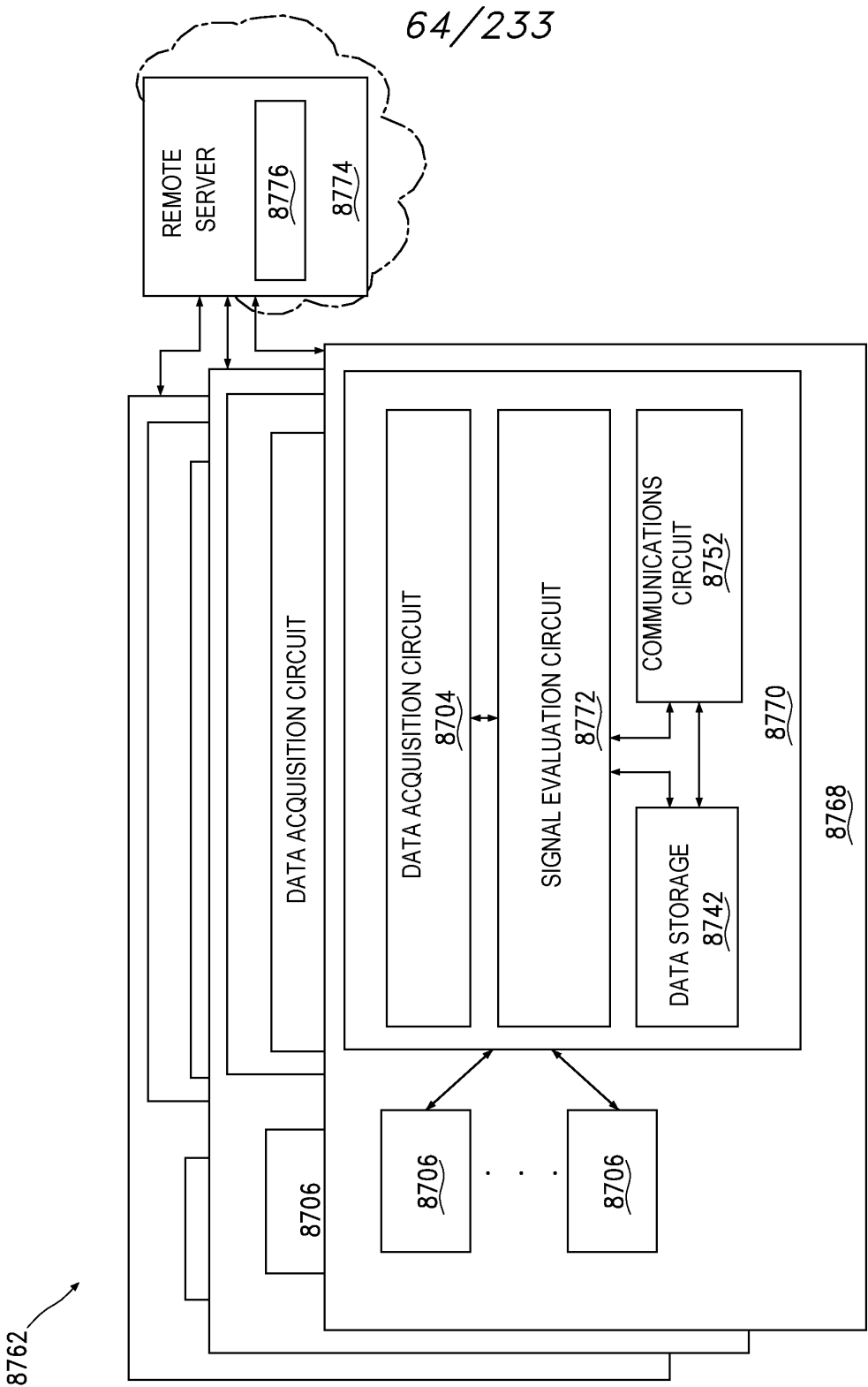
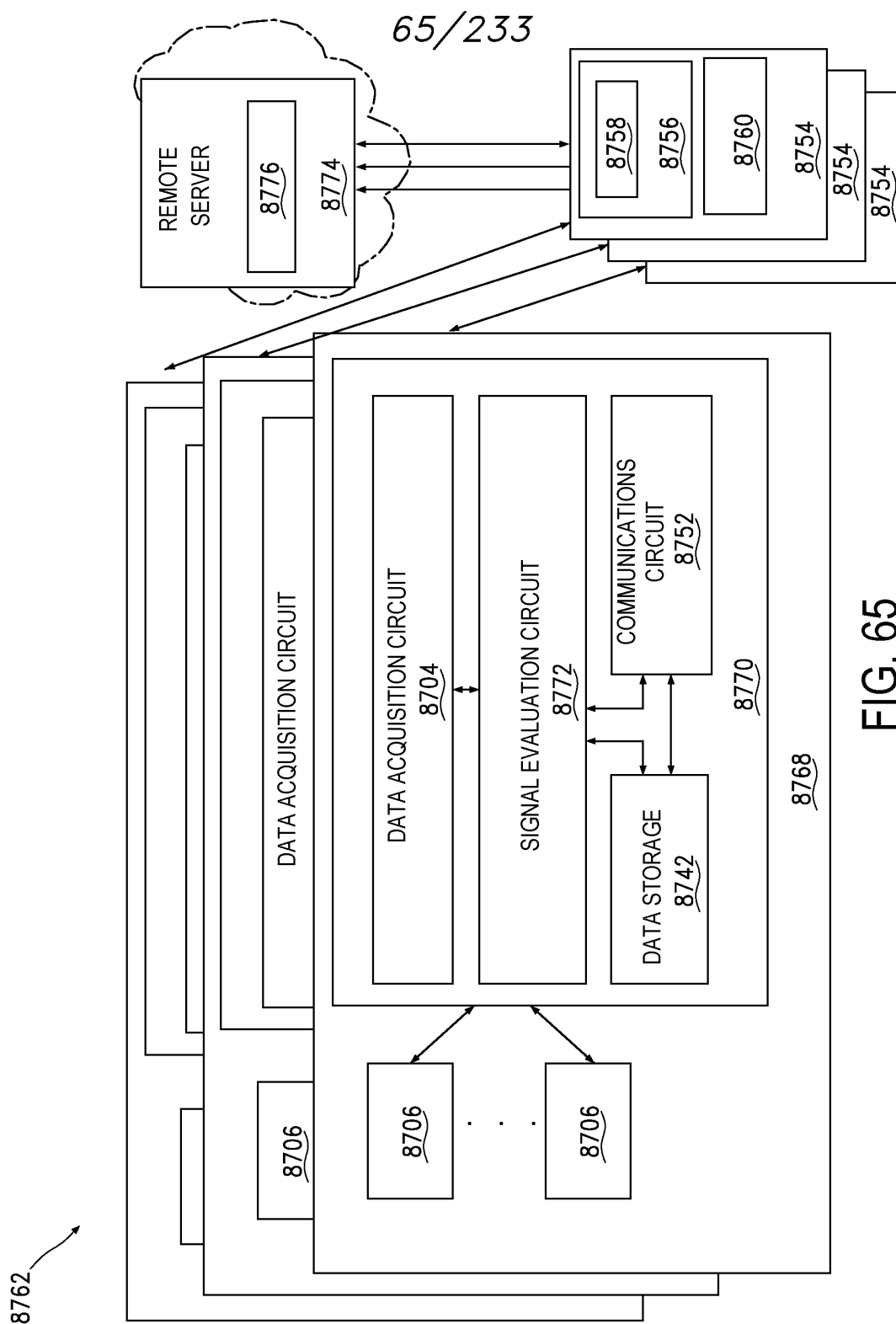


FIG. 64



66/233

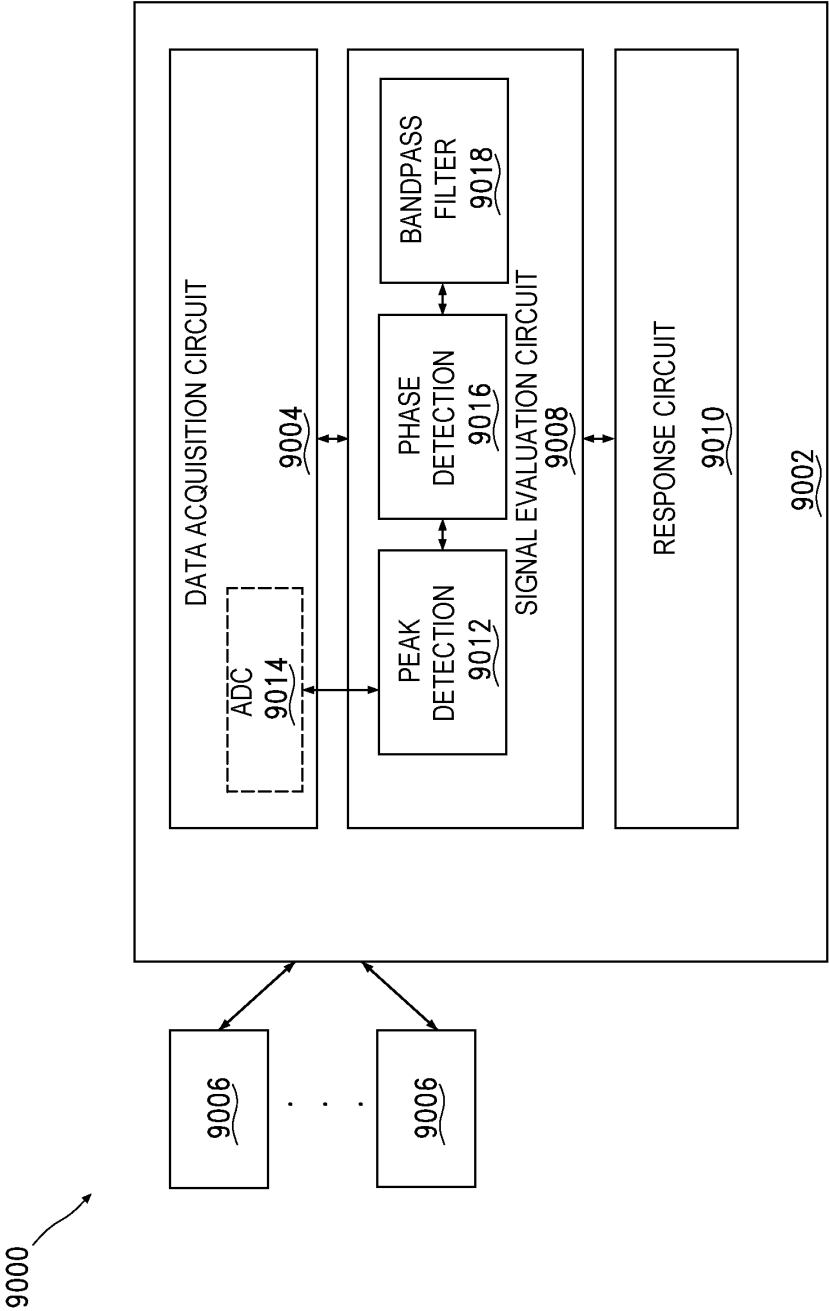


FIG. 66

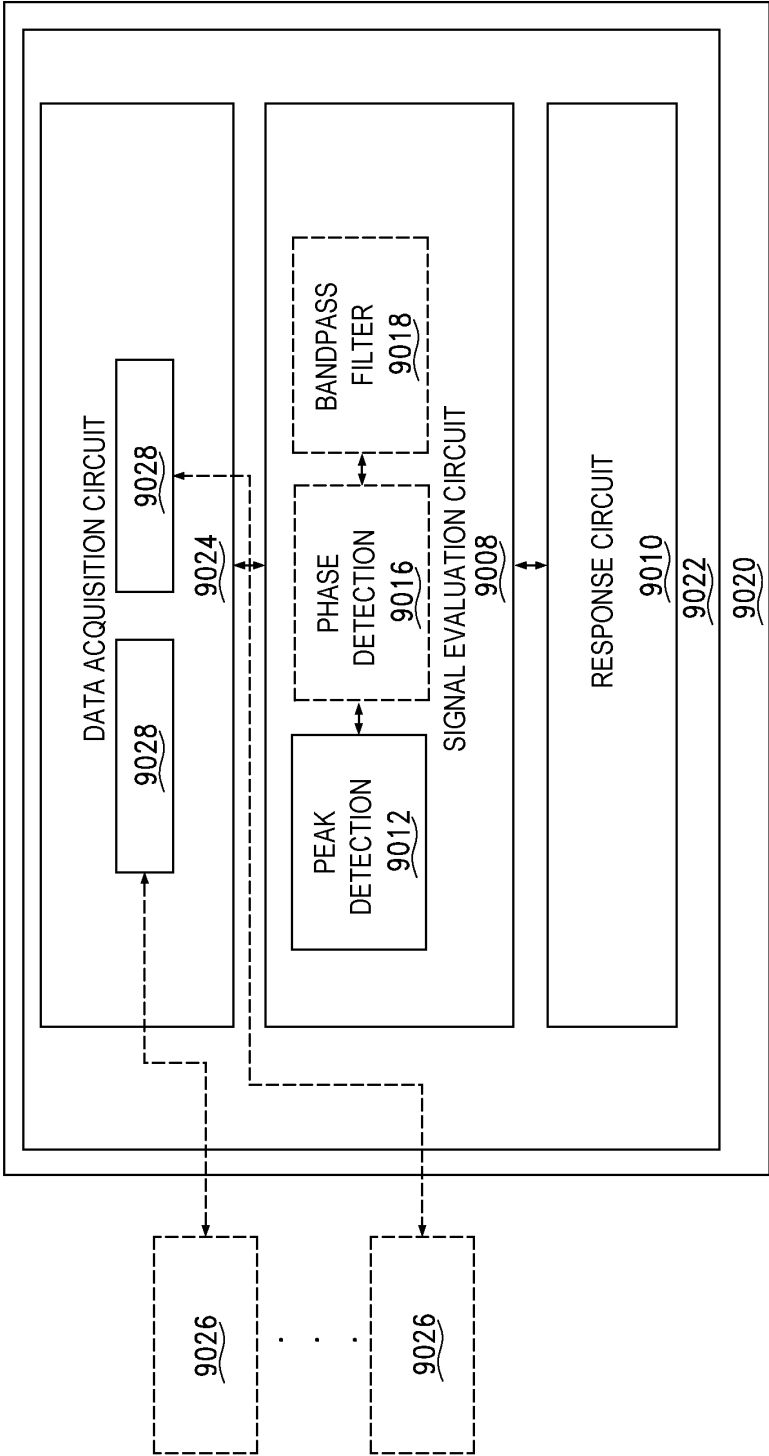


FIG. 67

68/233

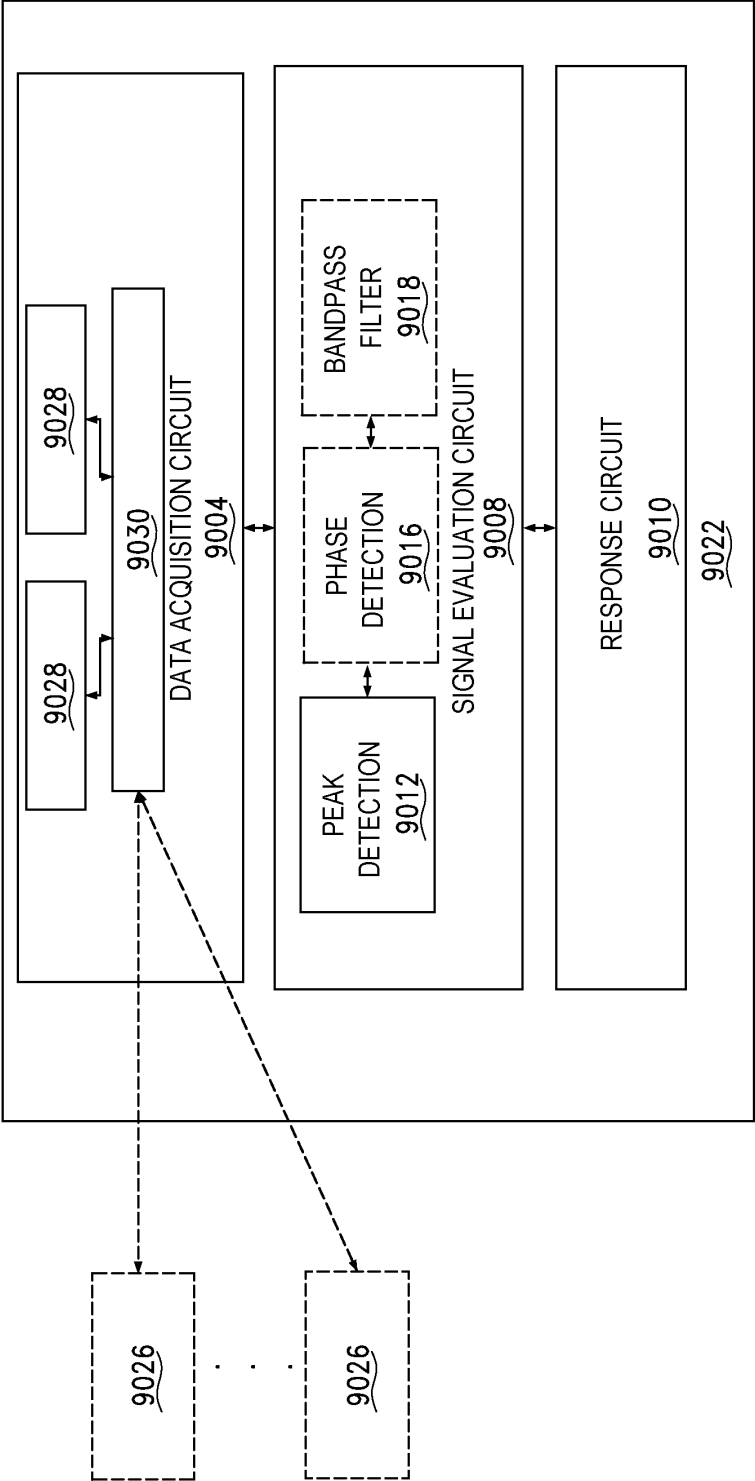


FIG. 68

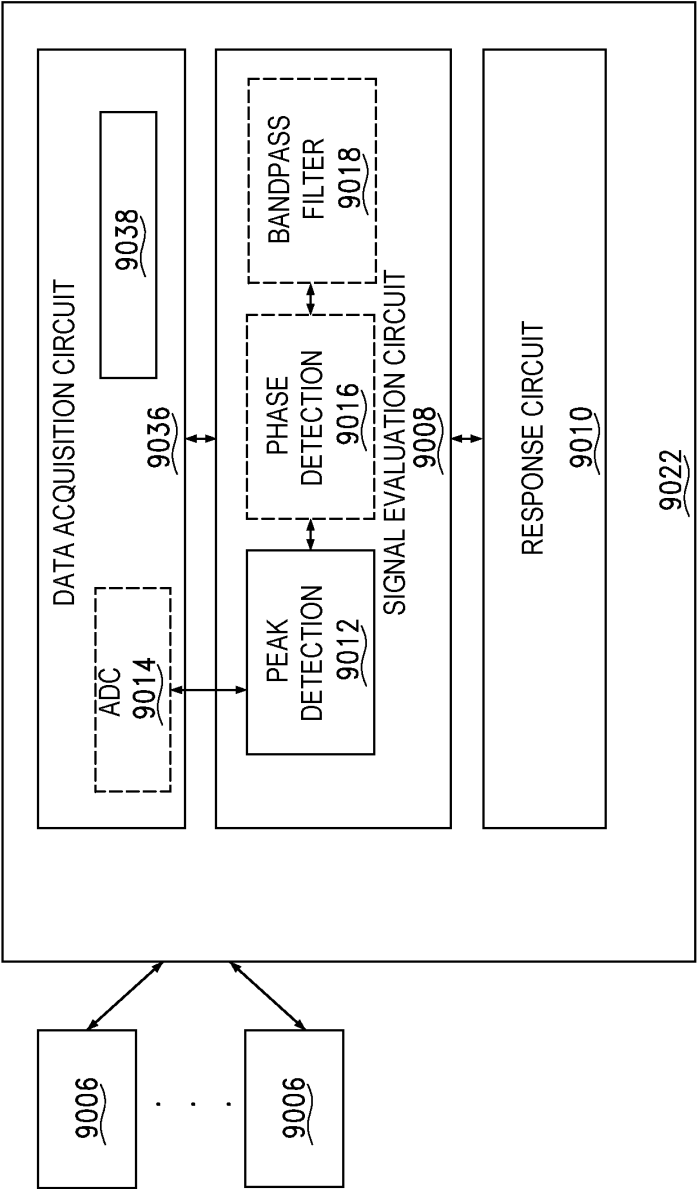


FIG. 69

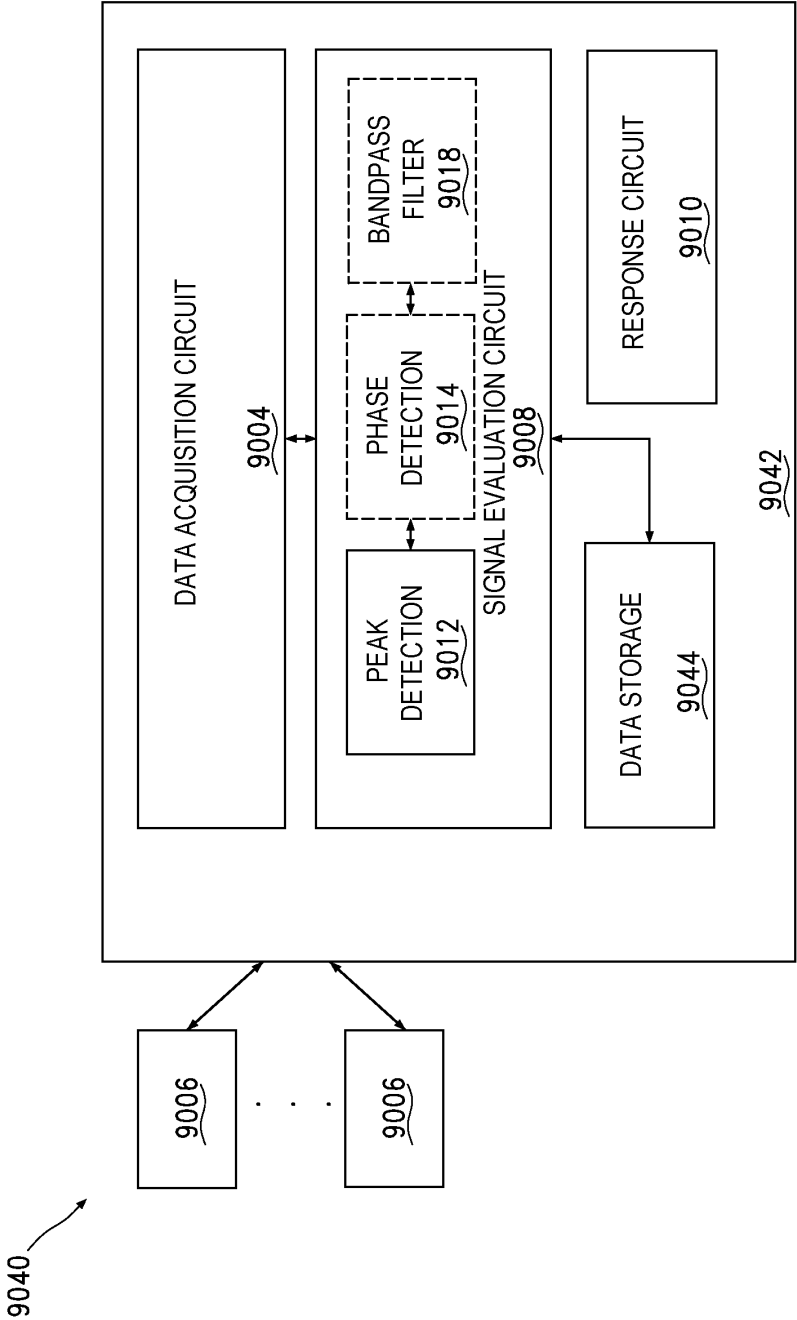


FIG. 70

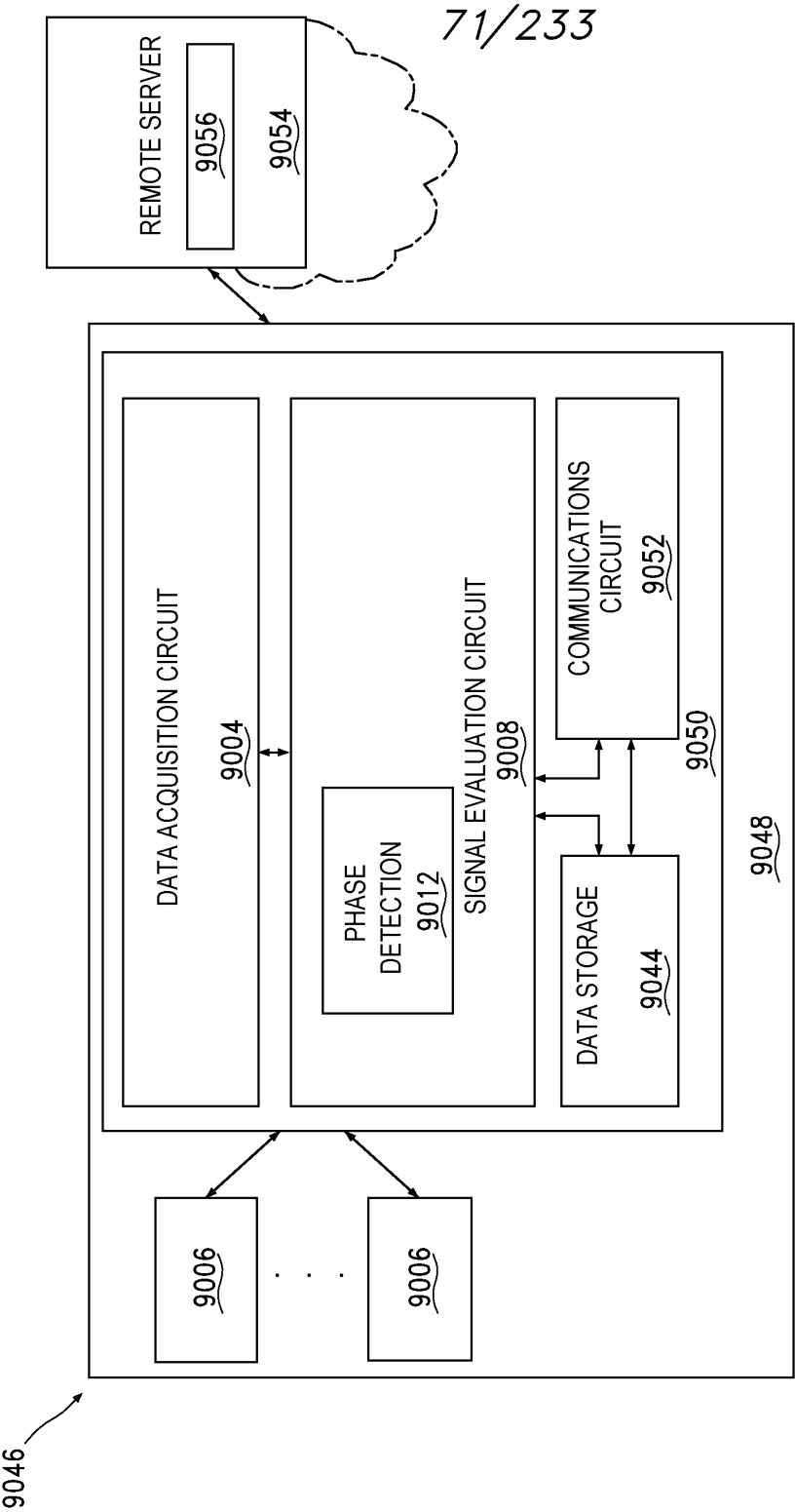


FIG. 71

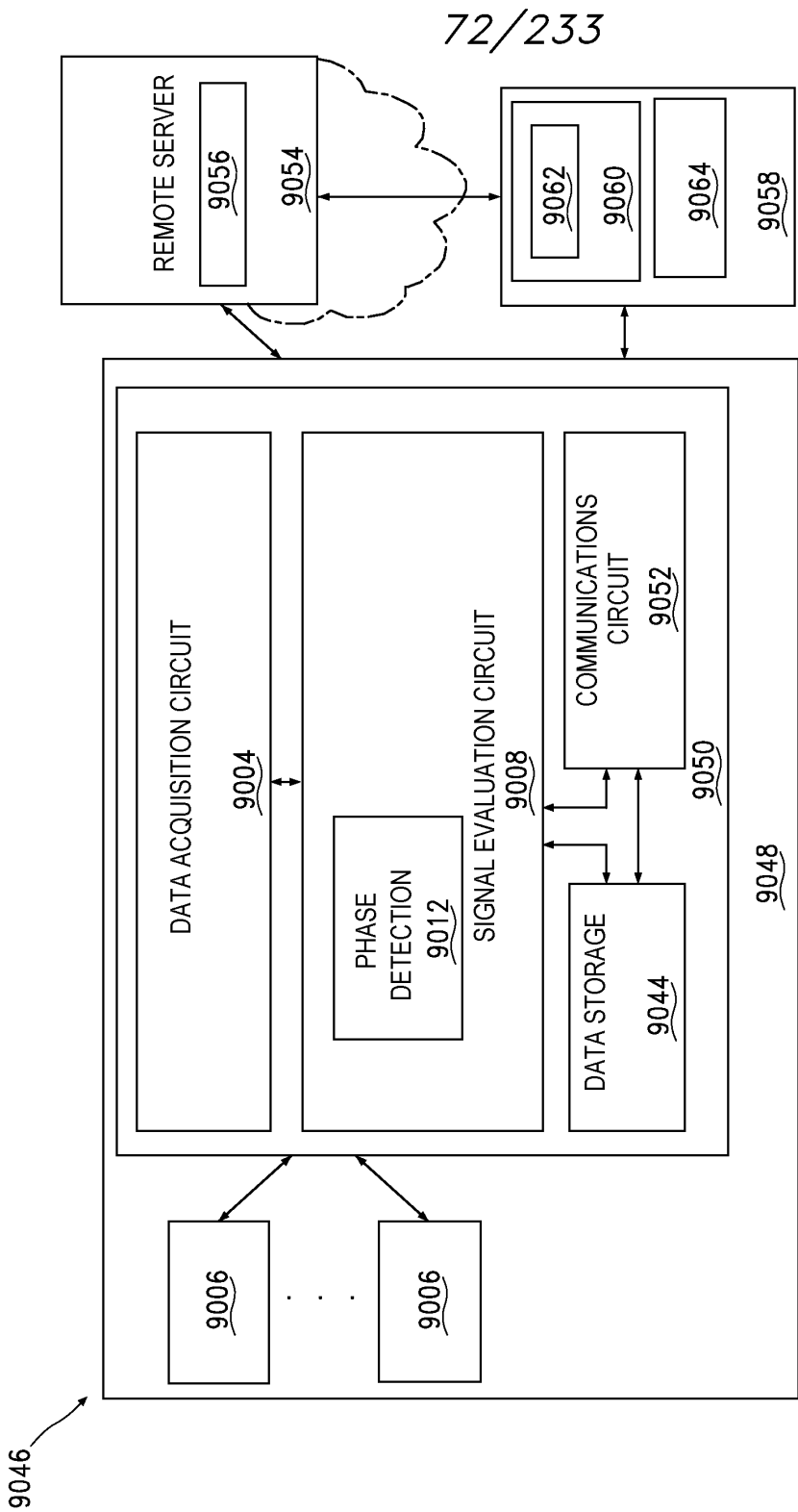


FIG. 72

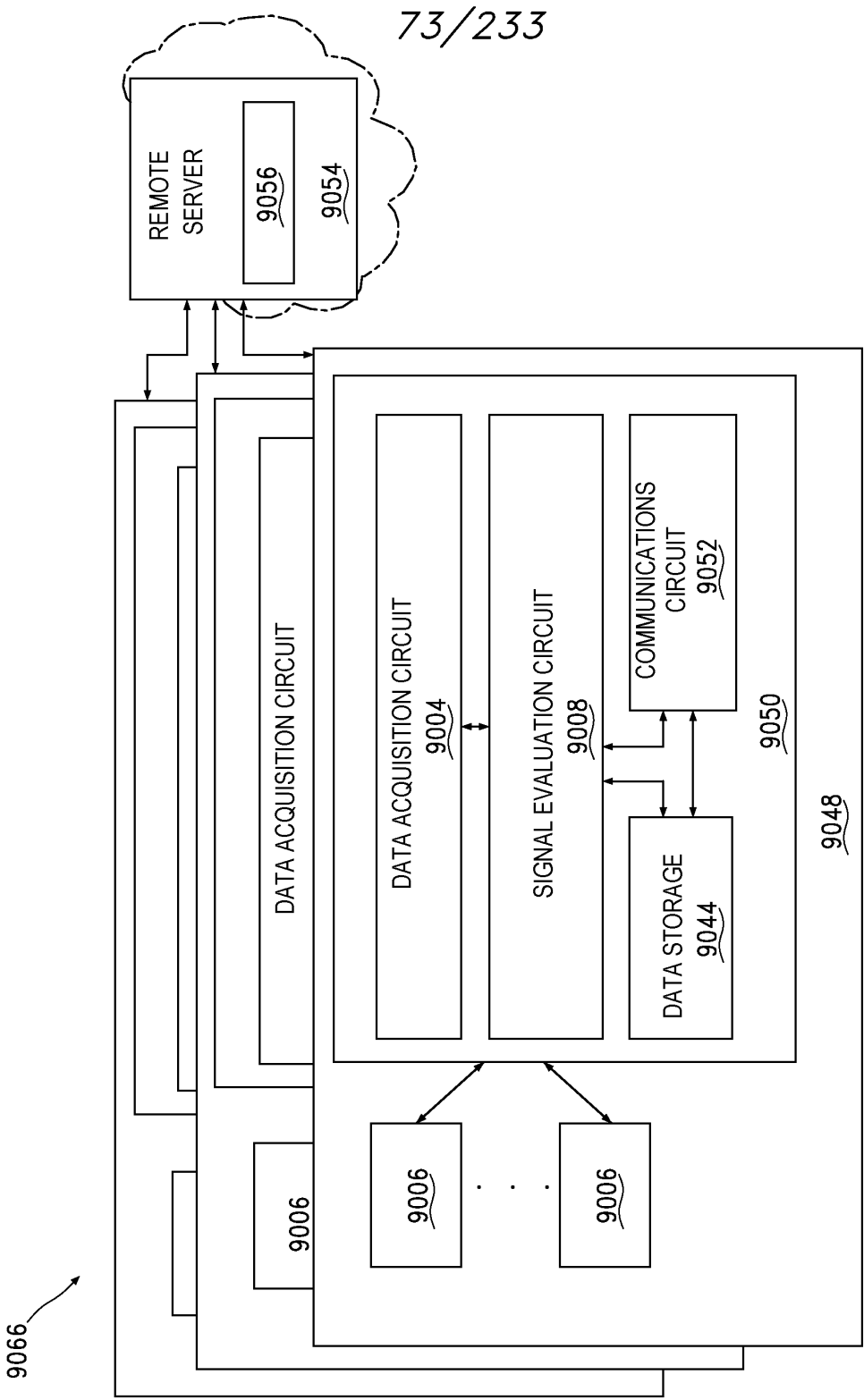


FIG. 73

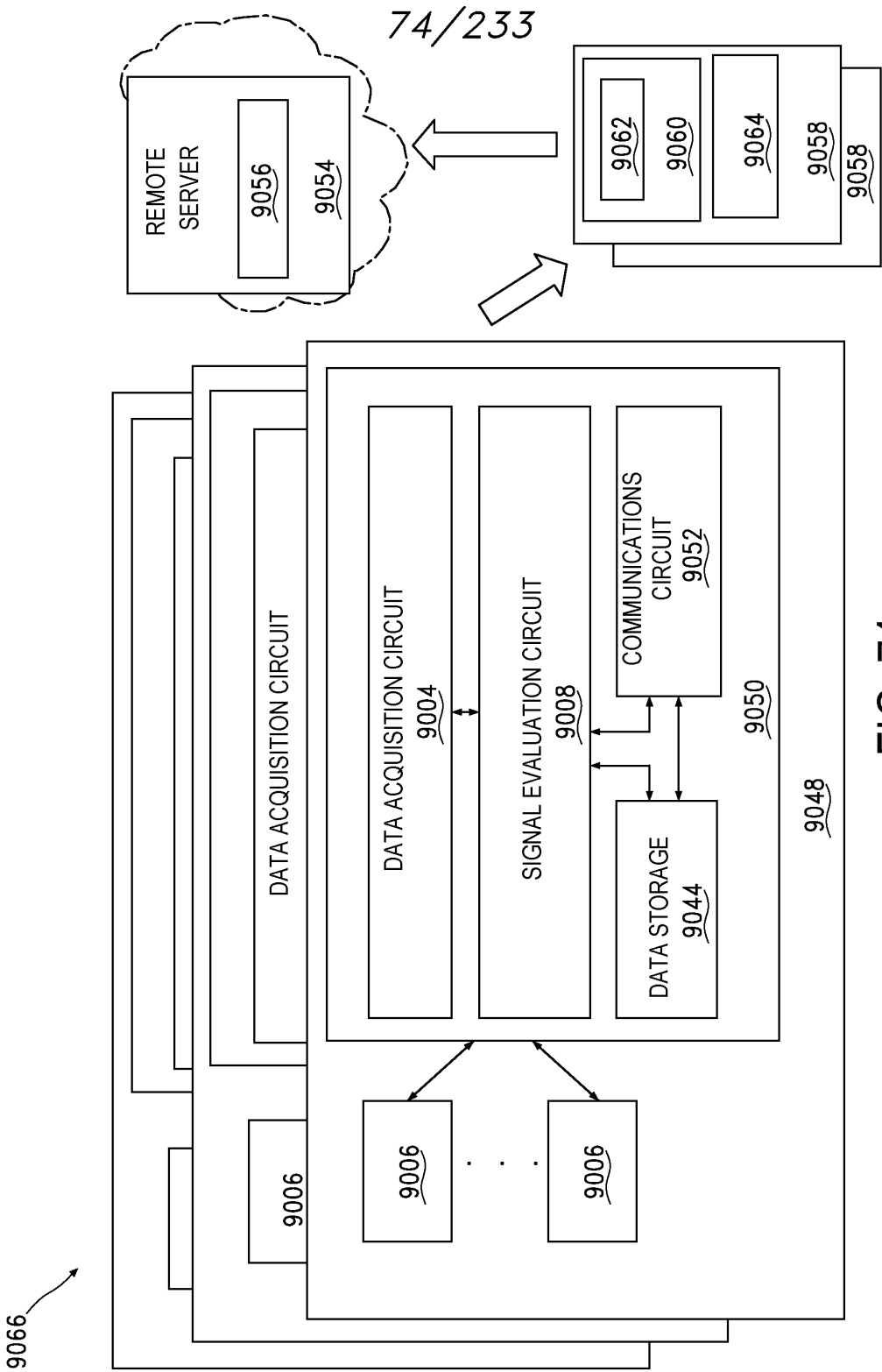


FIG. 74

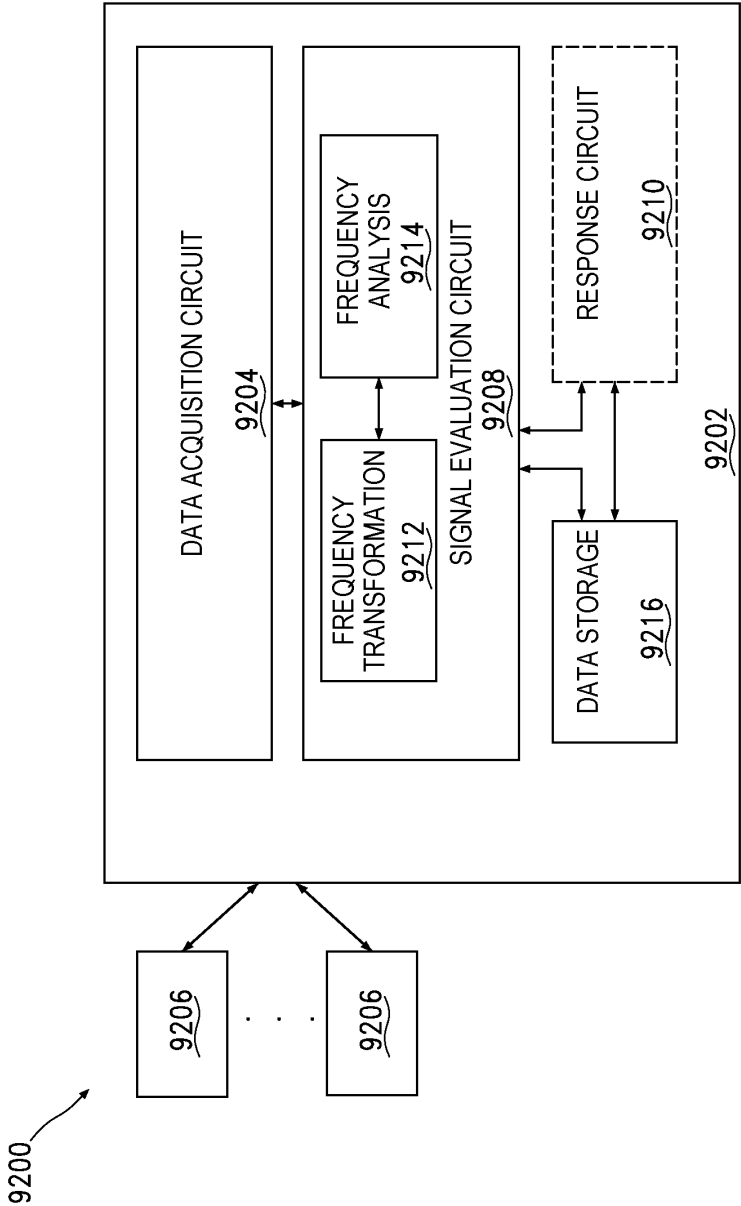


FIG. 75

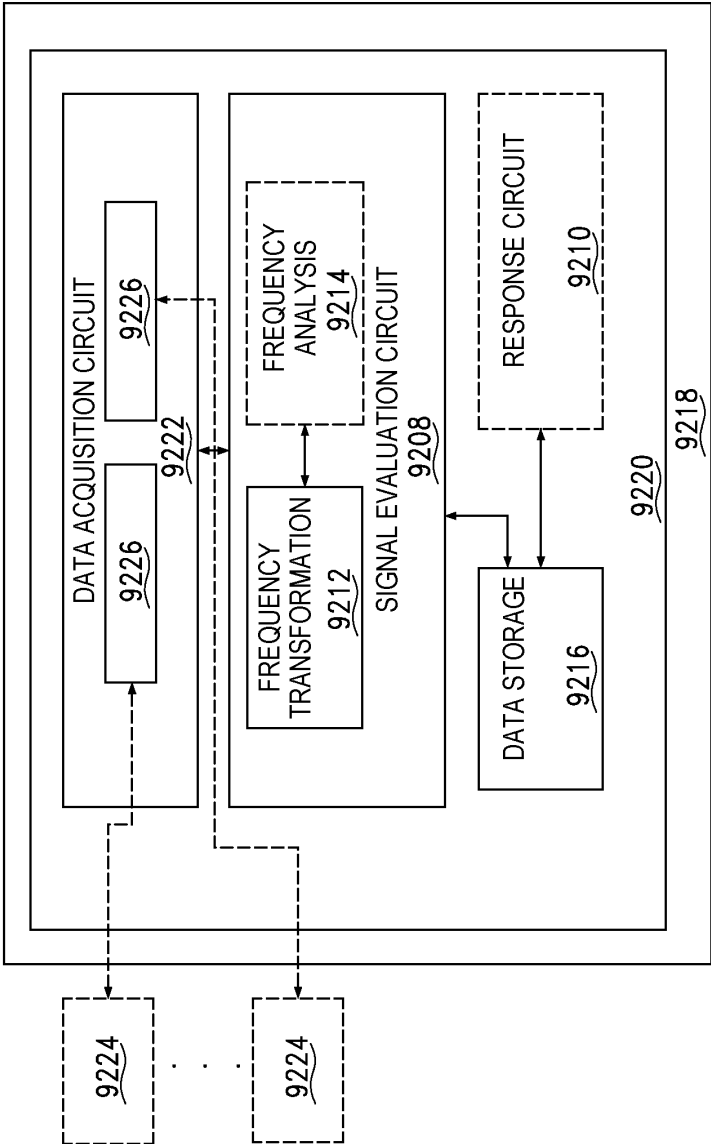


FIG. 76

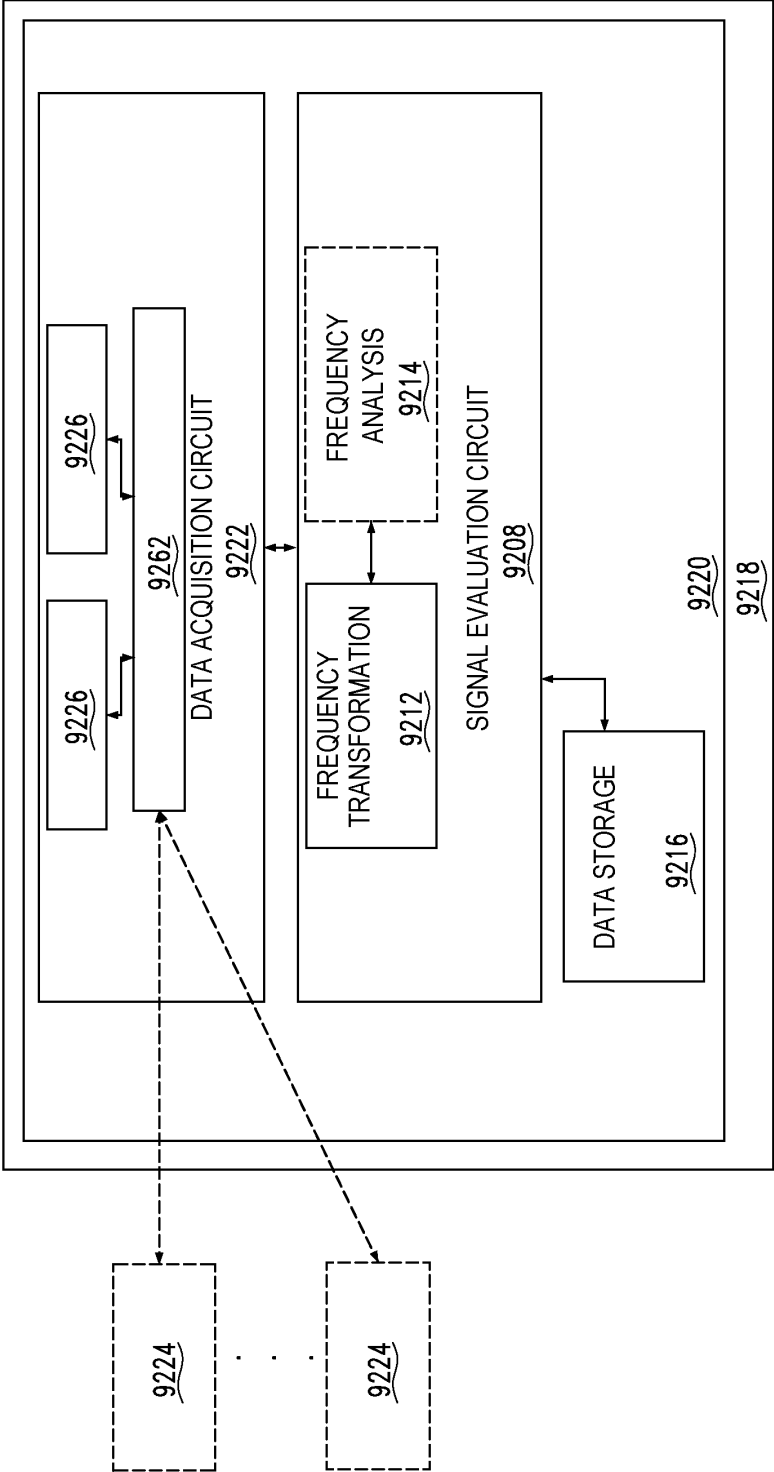


FIG. 77

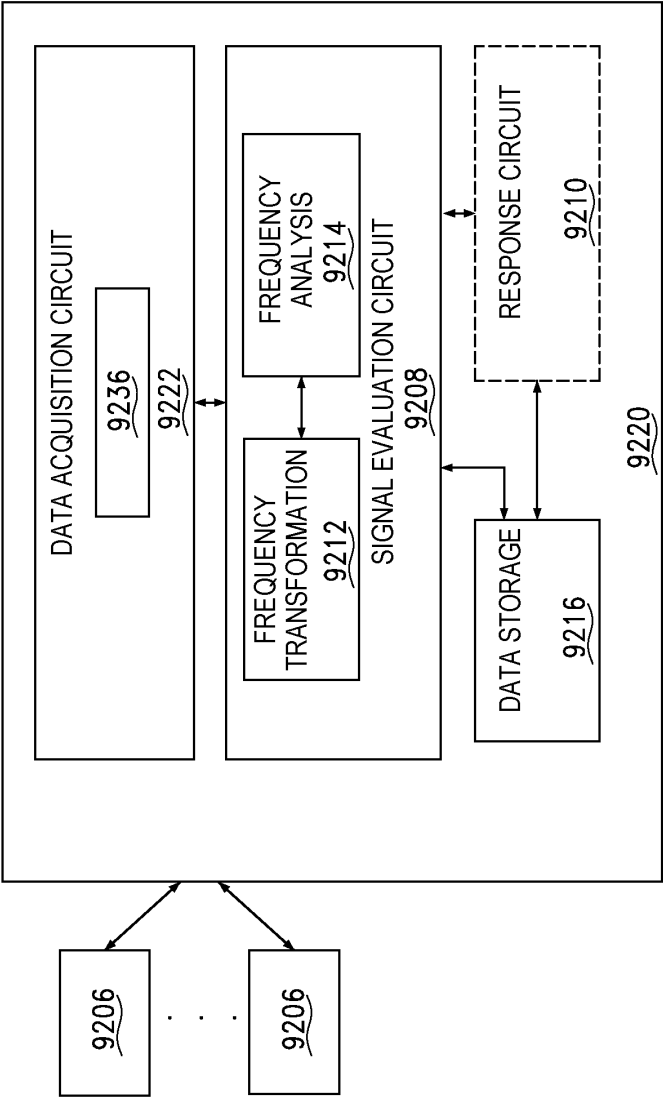


FIG. 78

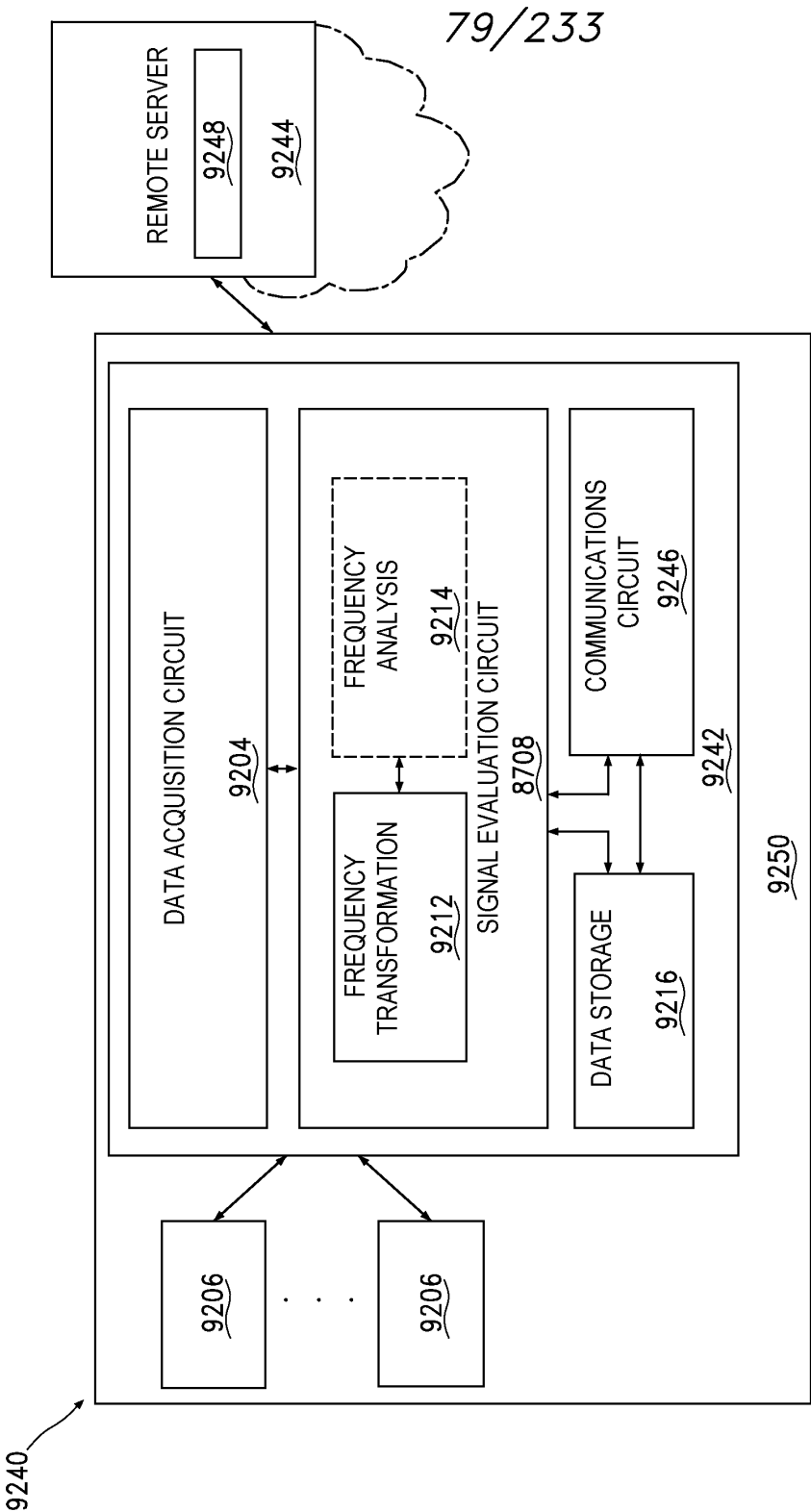


FIG. 79

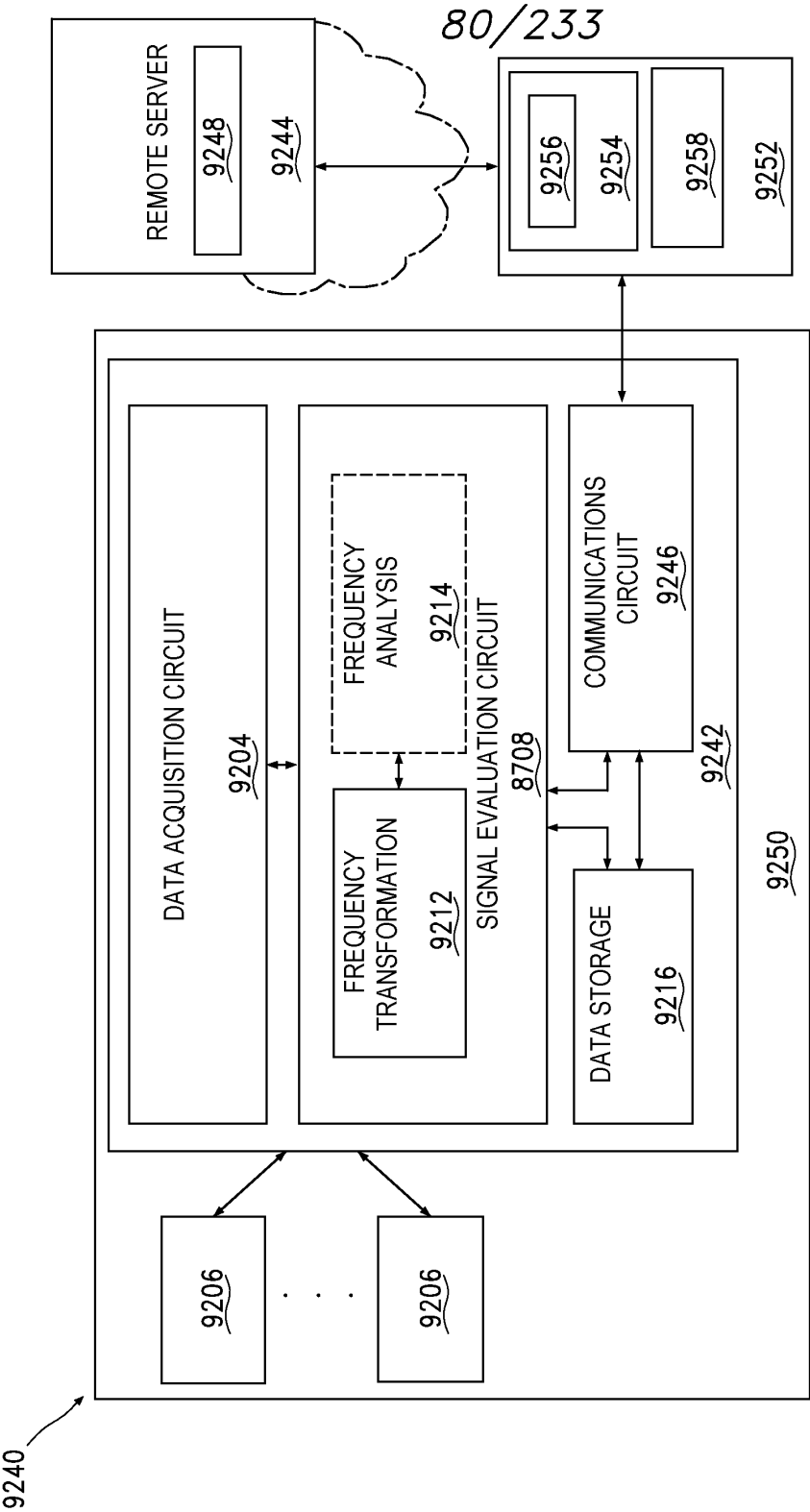


FIG. 80

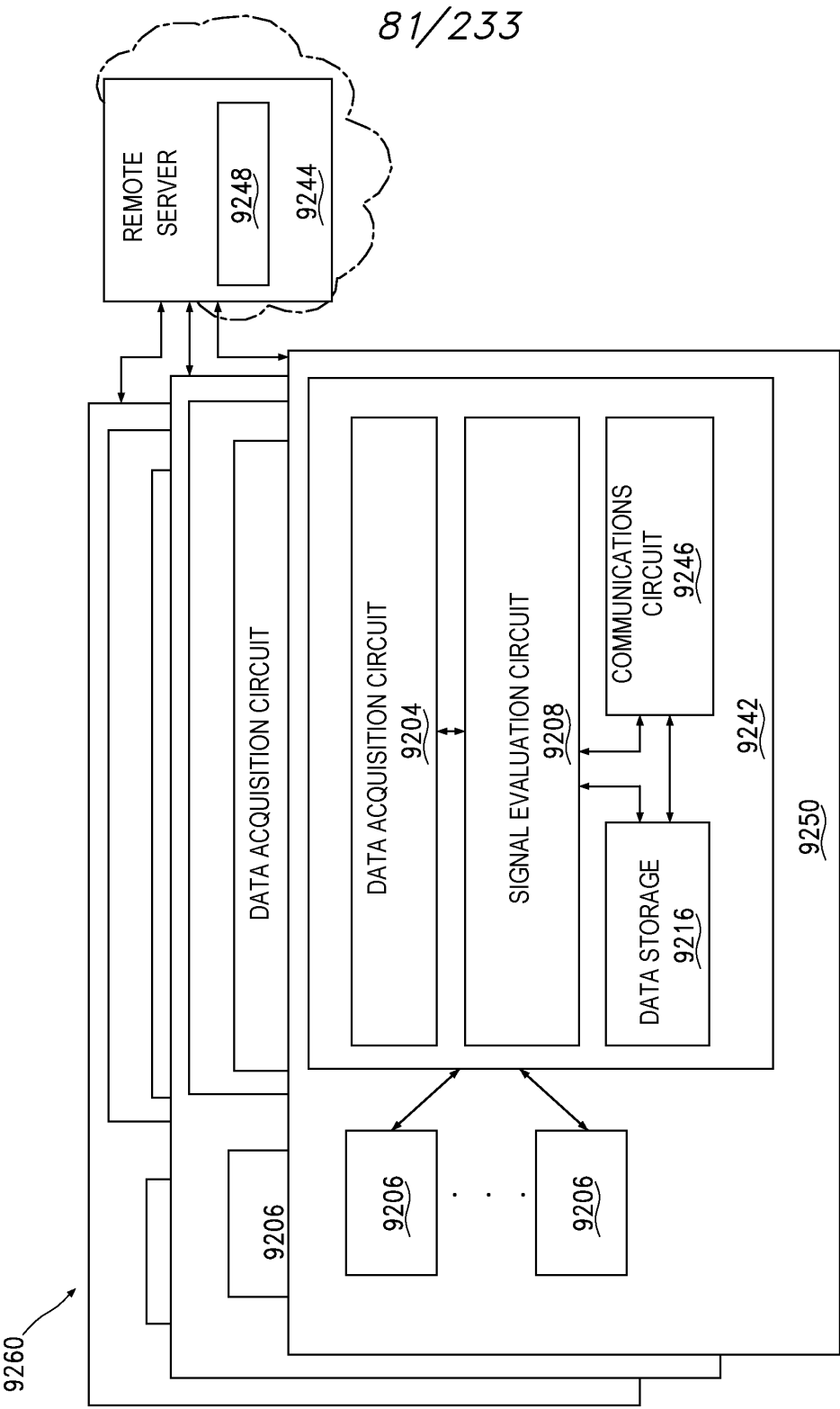
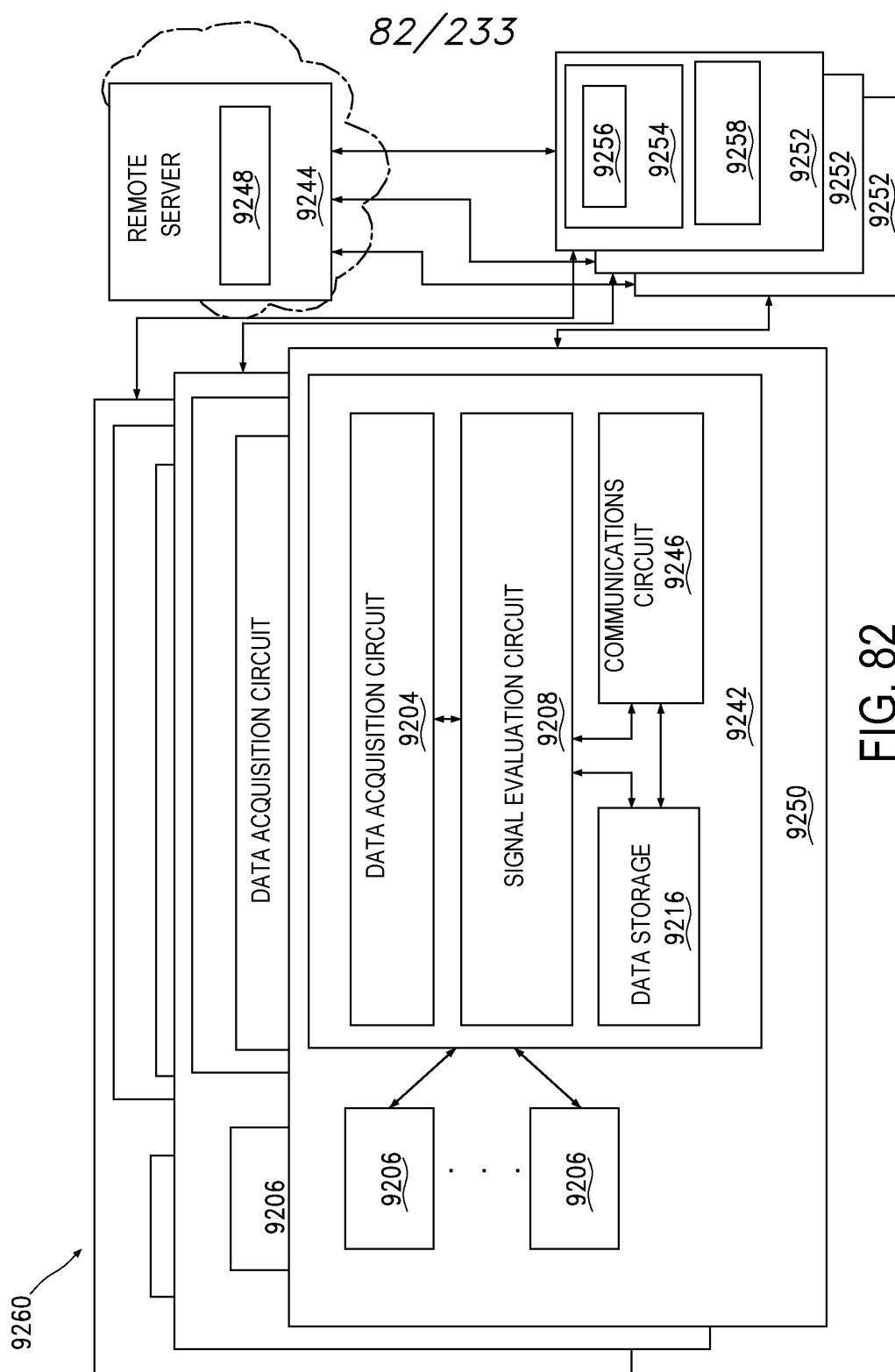


FIG. 81



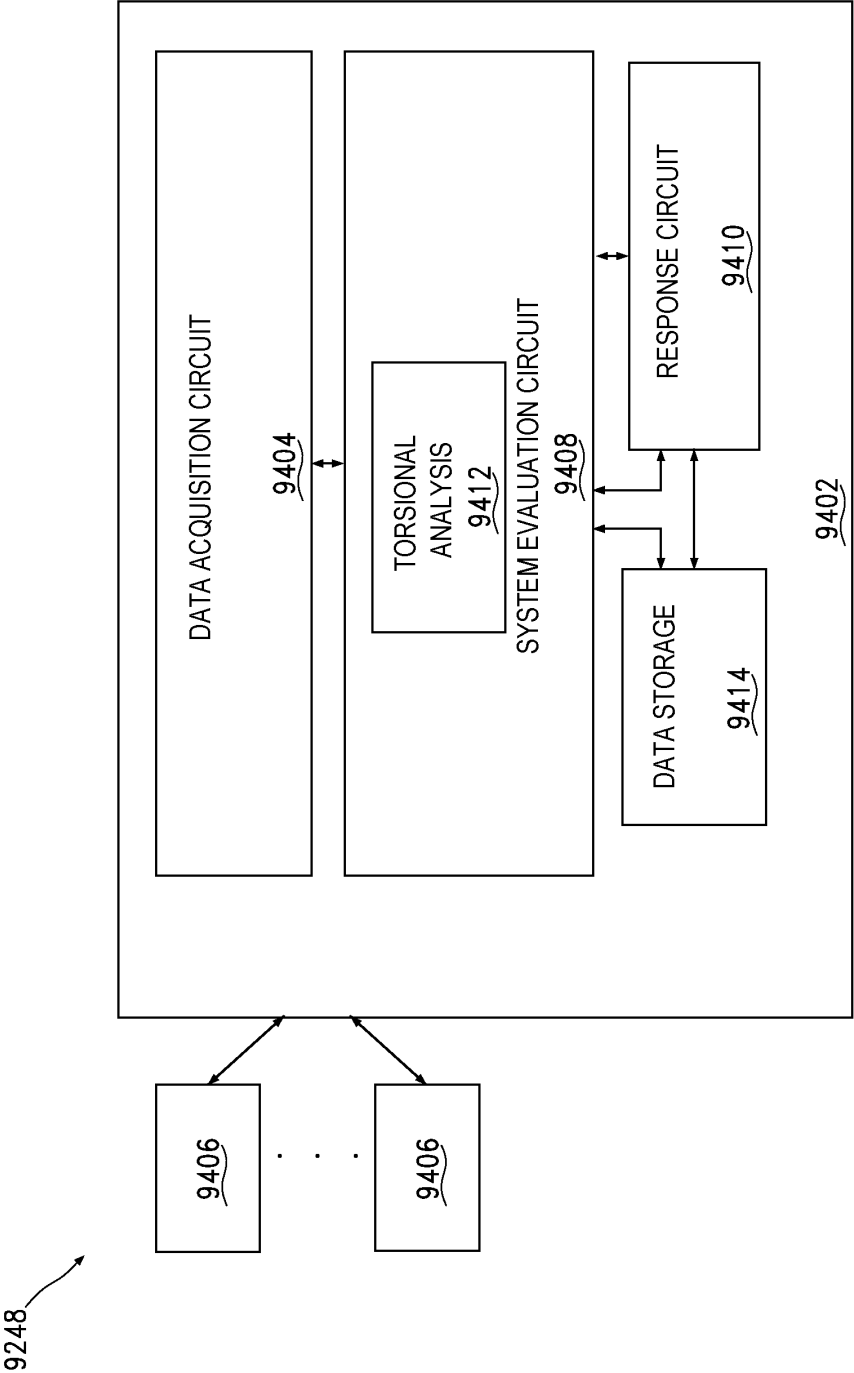


FIG. 83

84/233

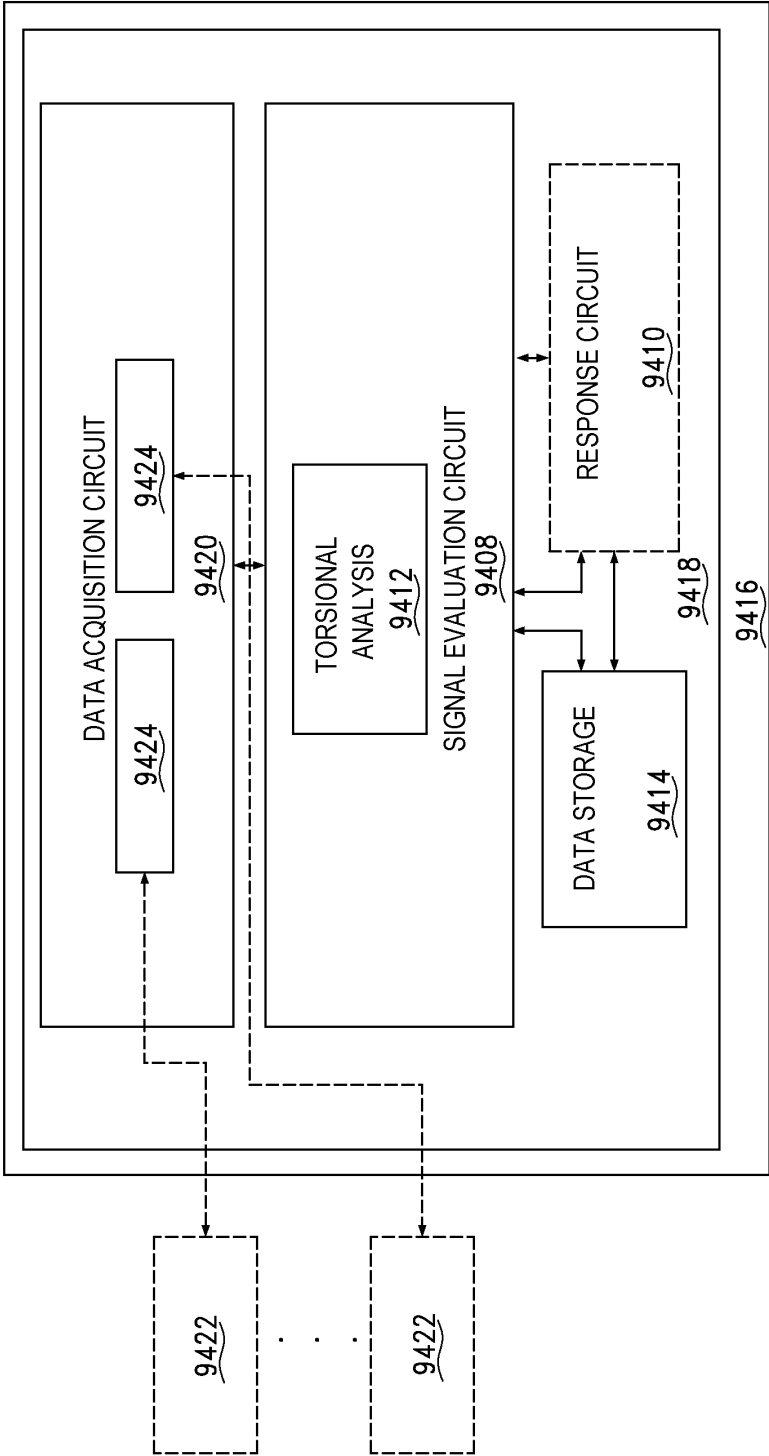


FIG. 84

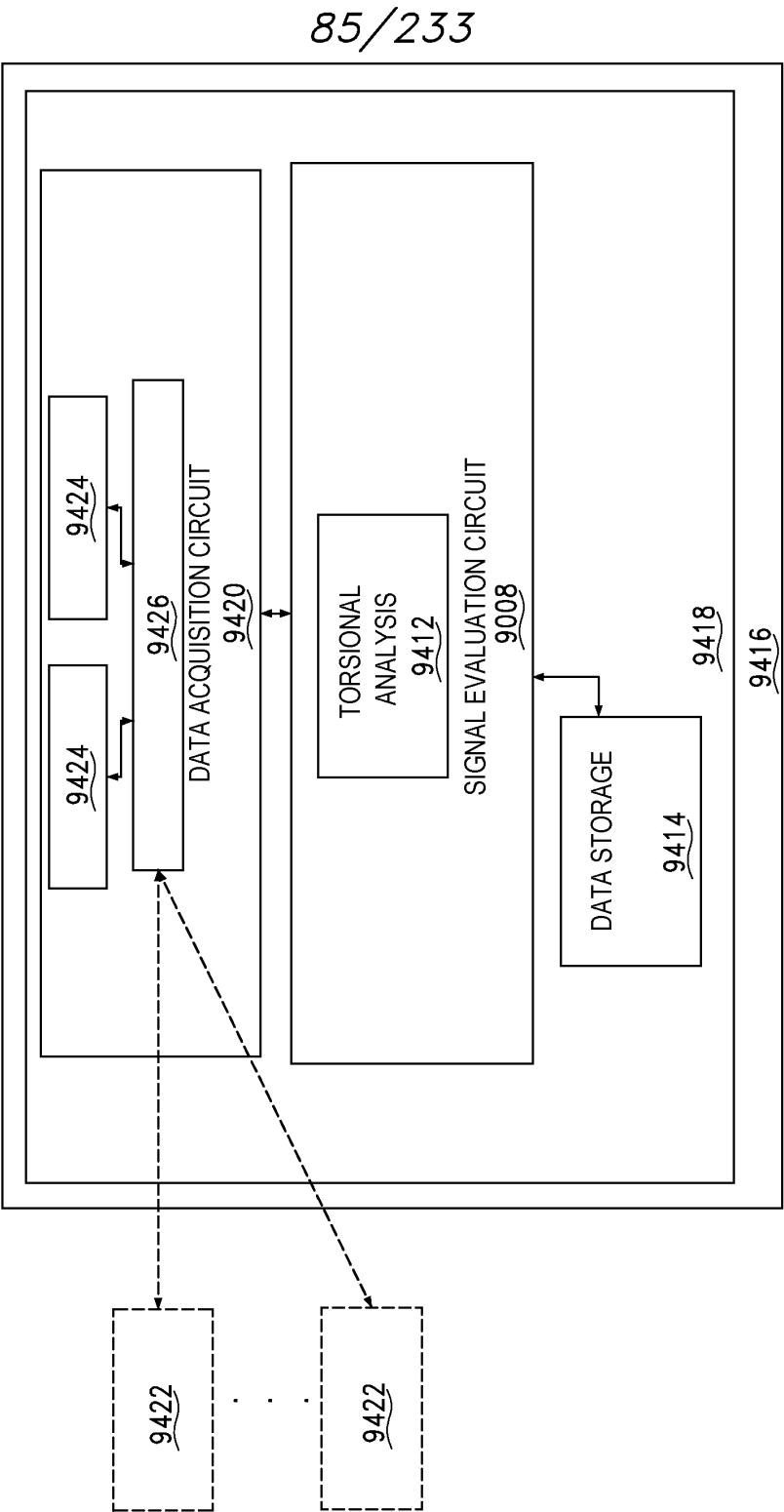


FIG. 85

86/233

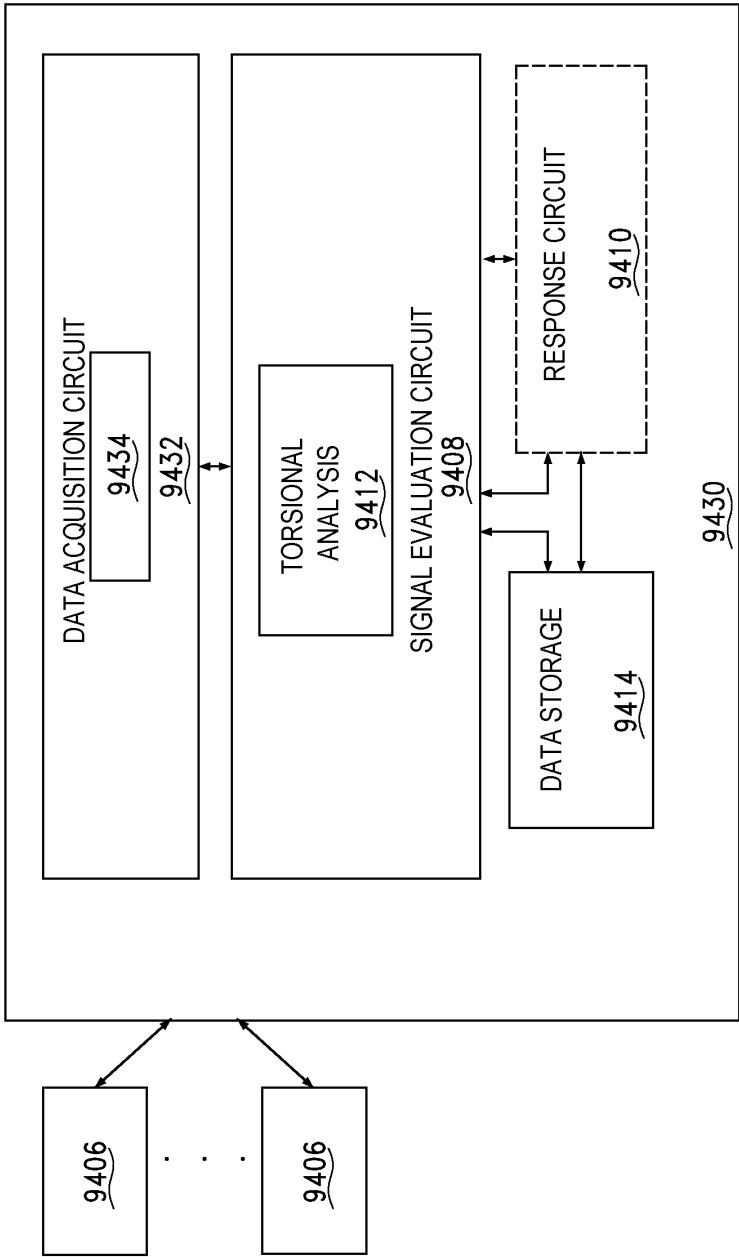


FIG. 86

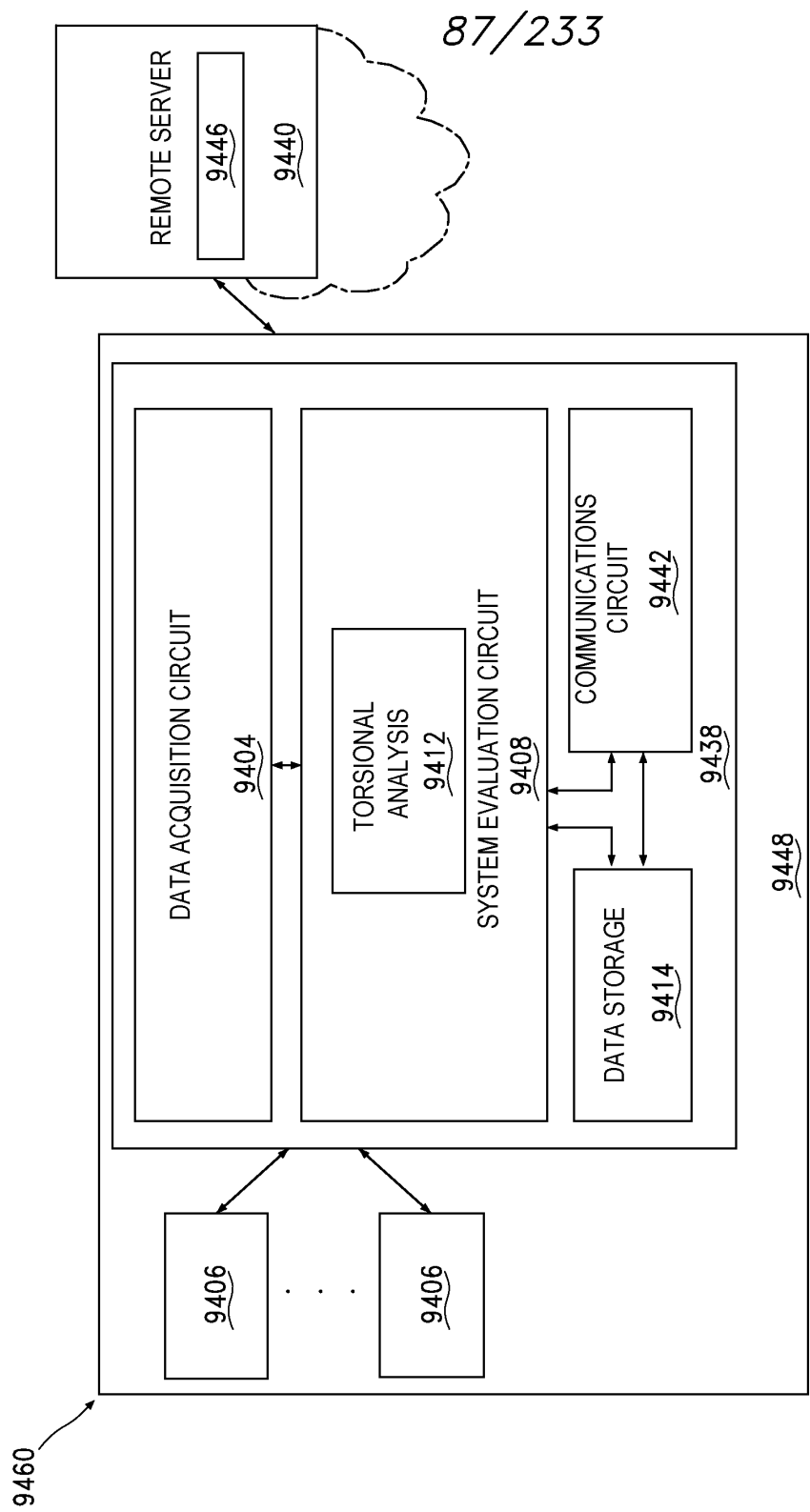


FIG. 87

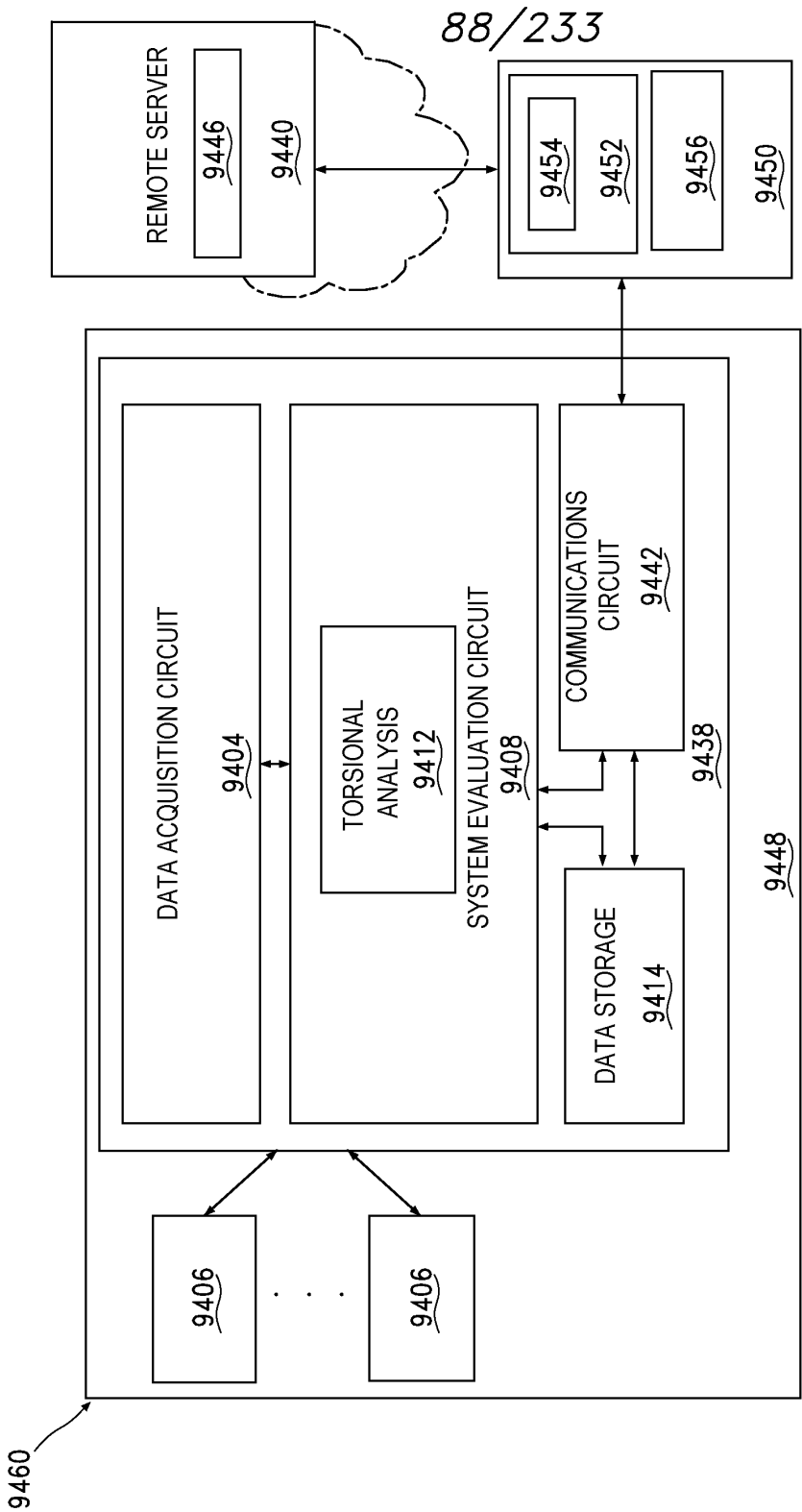


FIG. 88

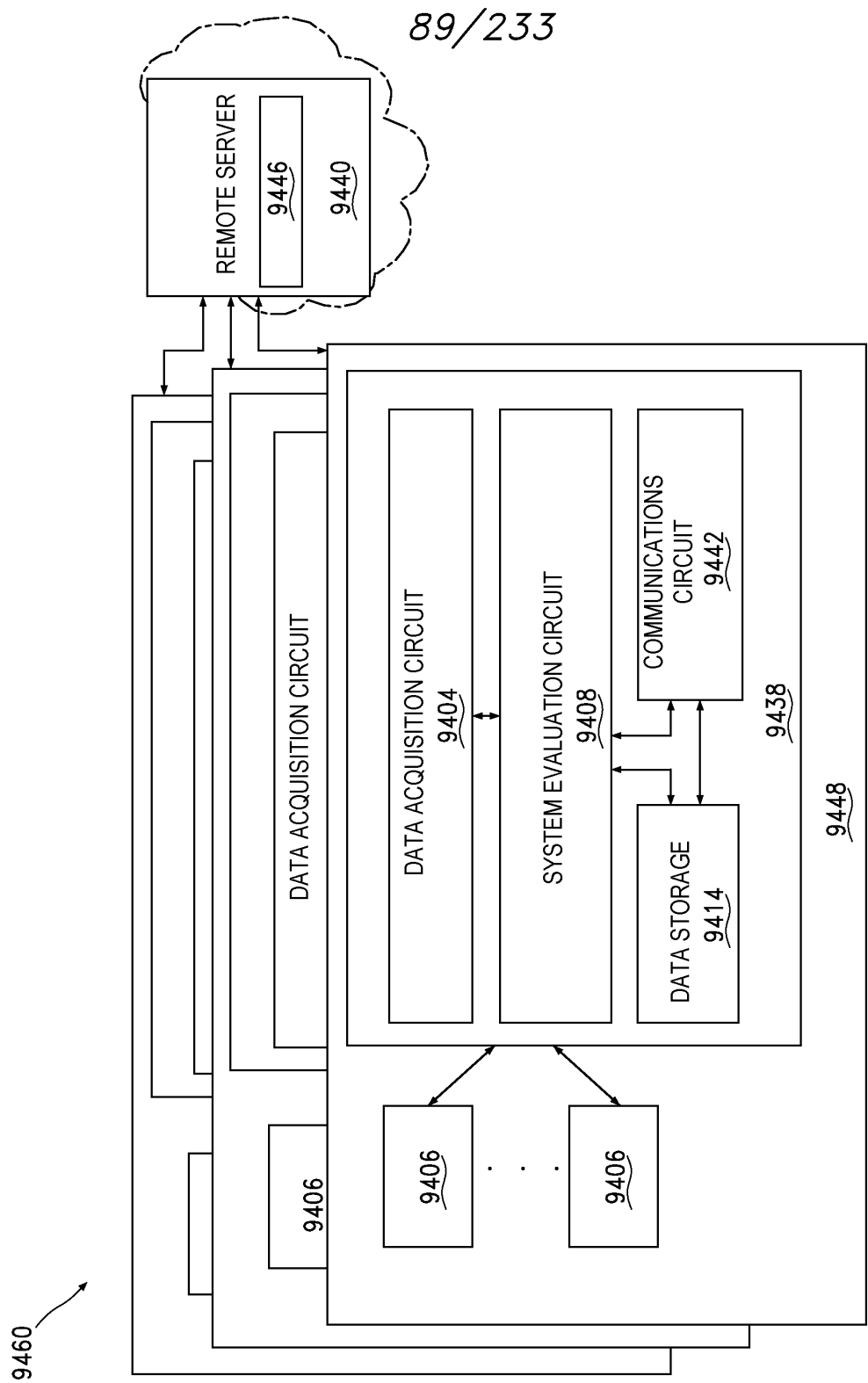


FIG. 89

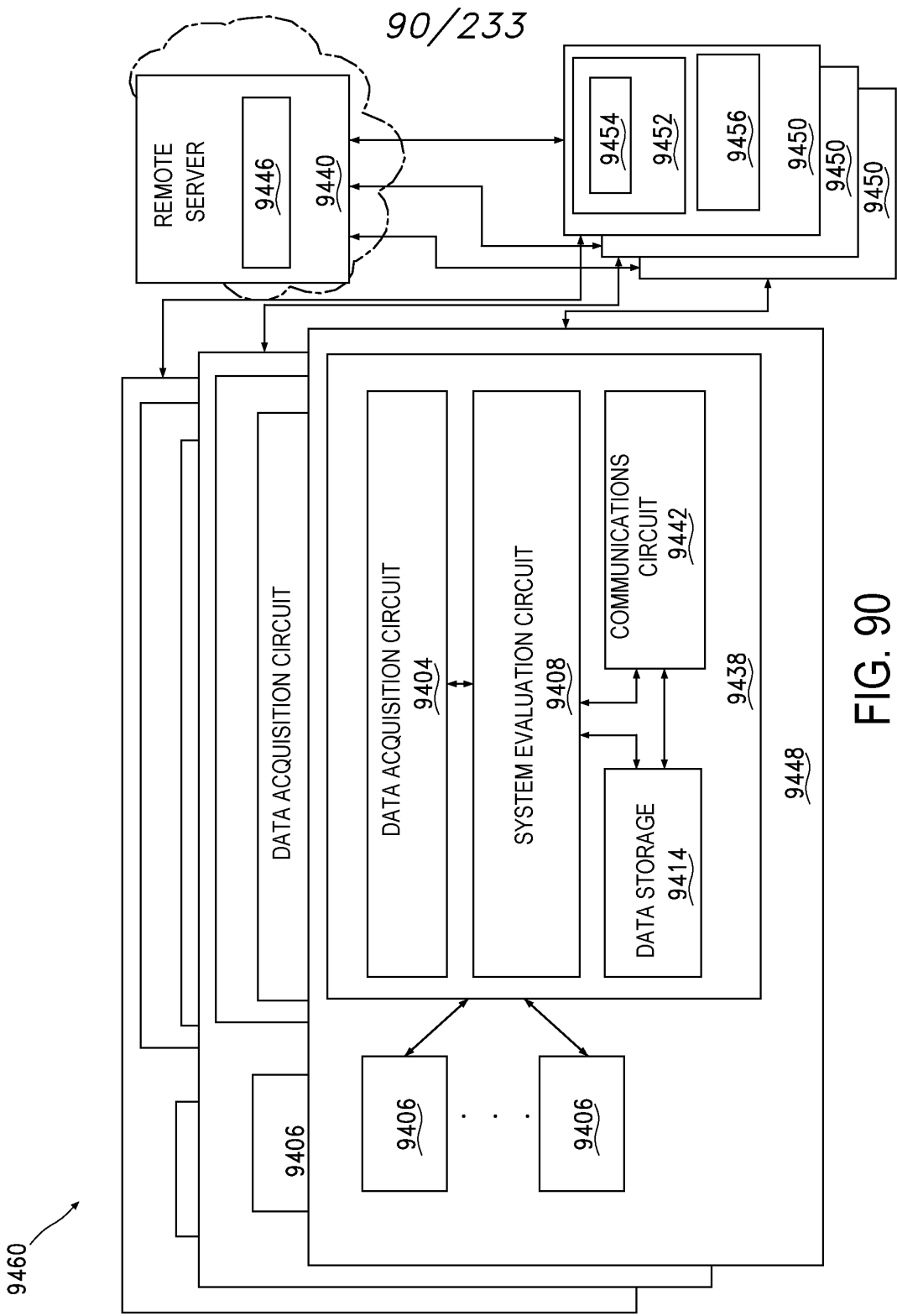


FIG. 90

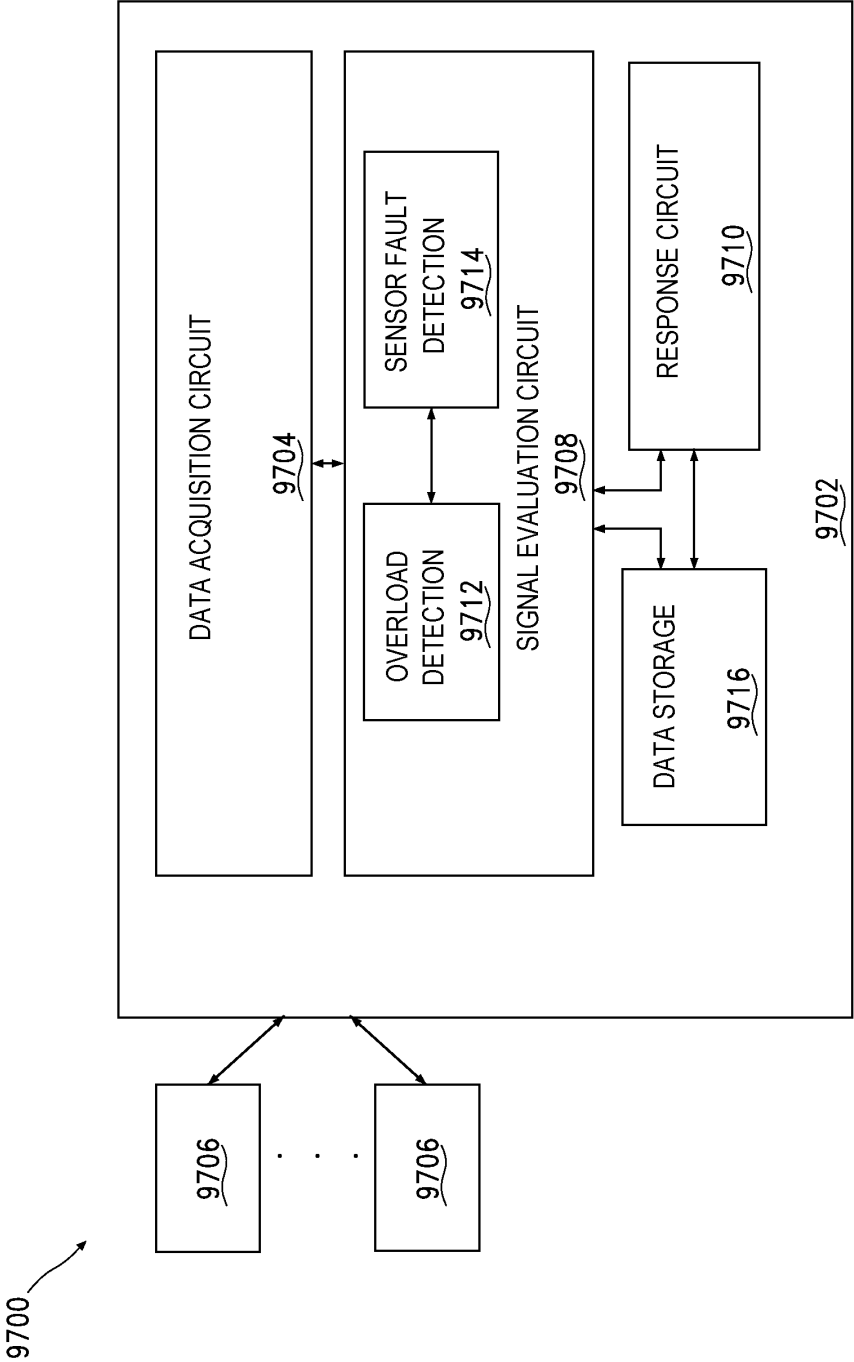


FIG. 91

92/233

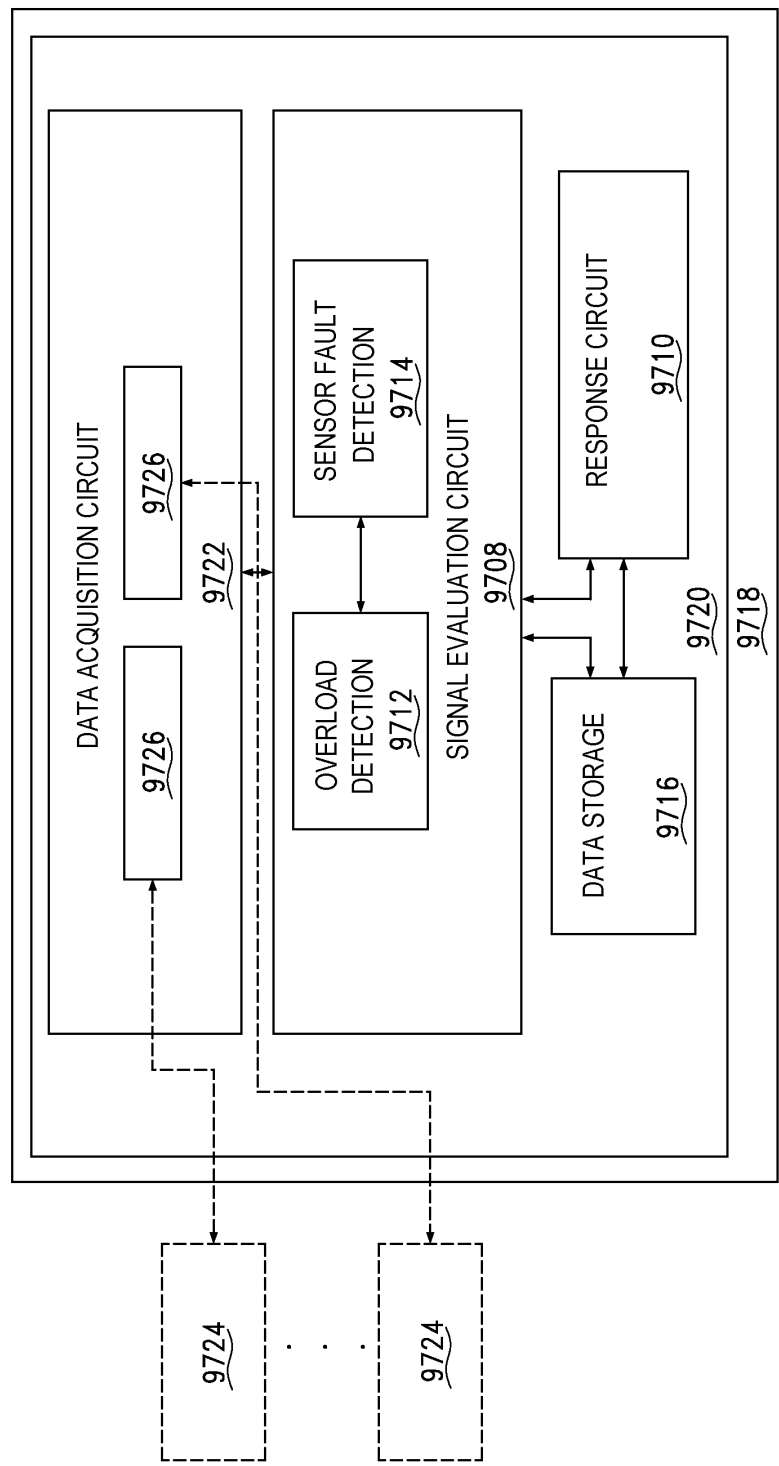


FIG. 92

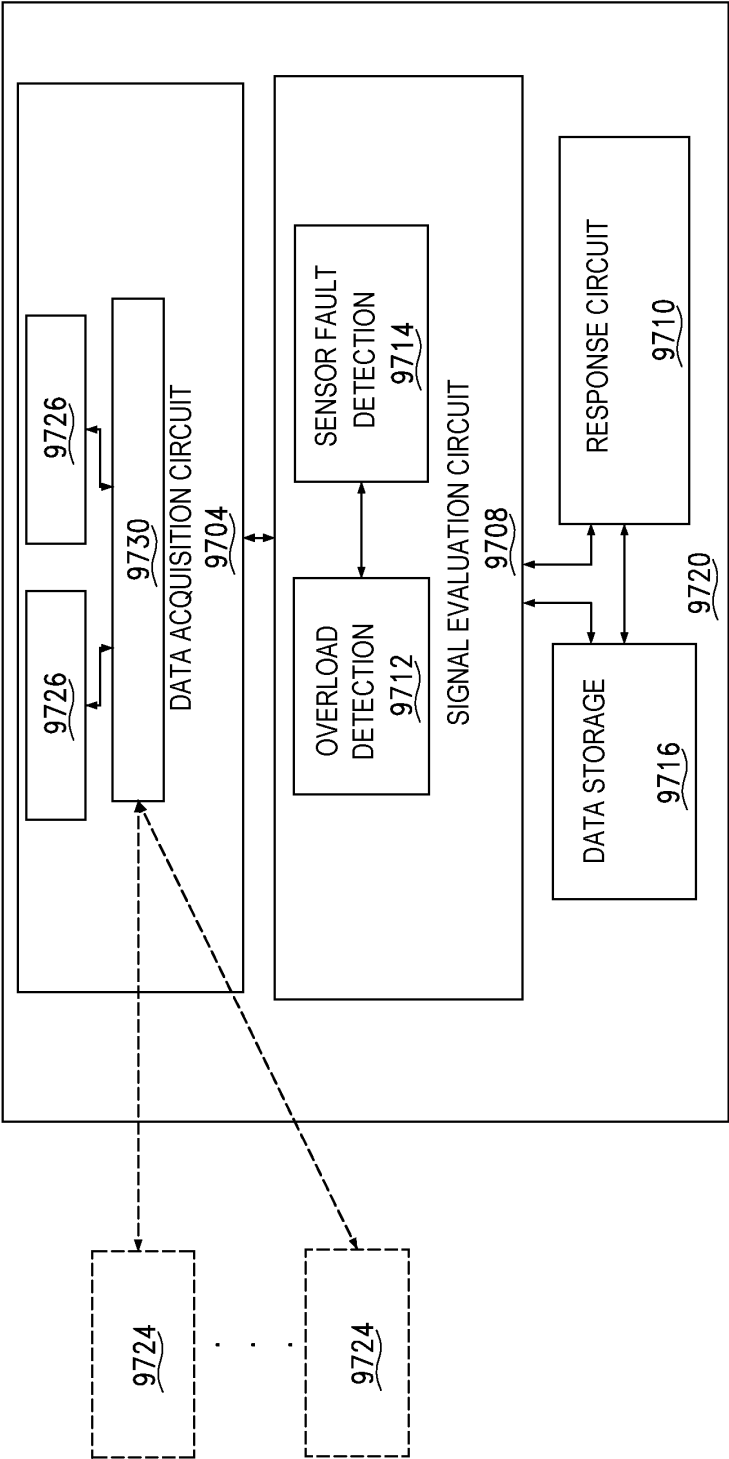


FIG. 93

94/233

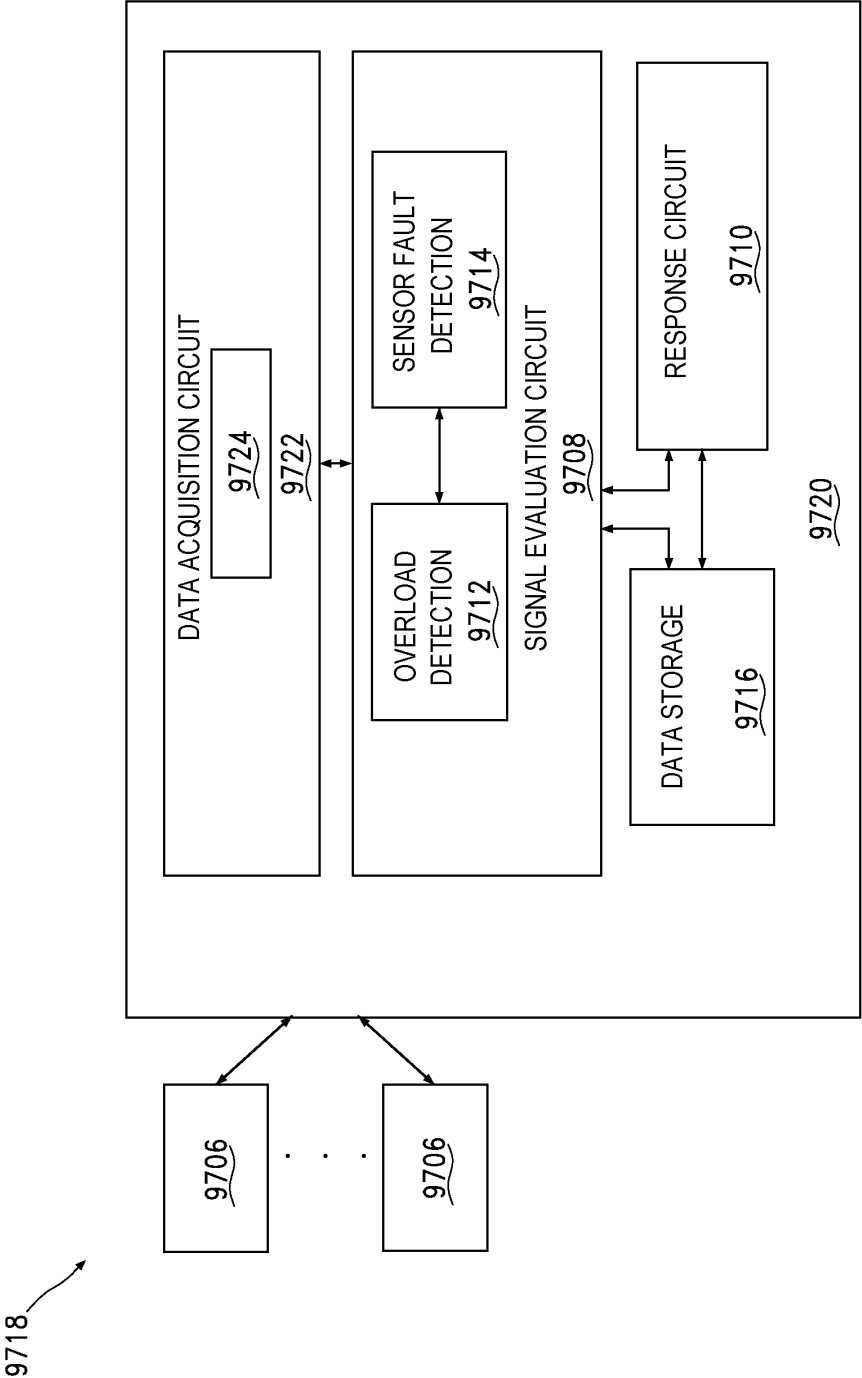


FIG. 94

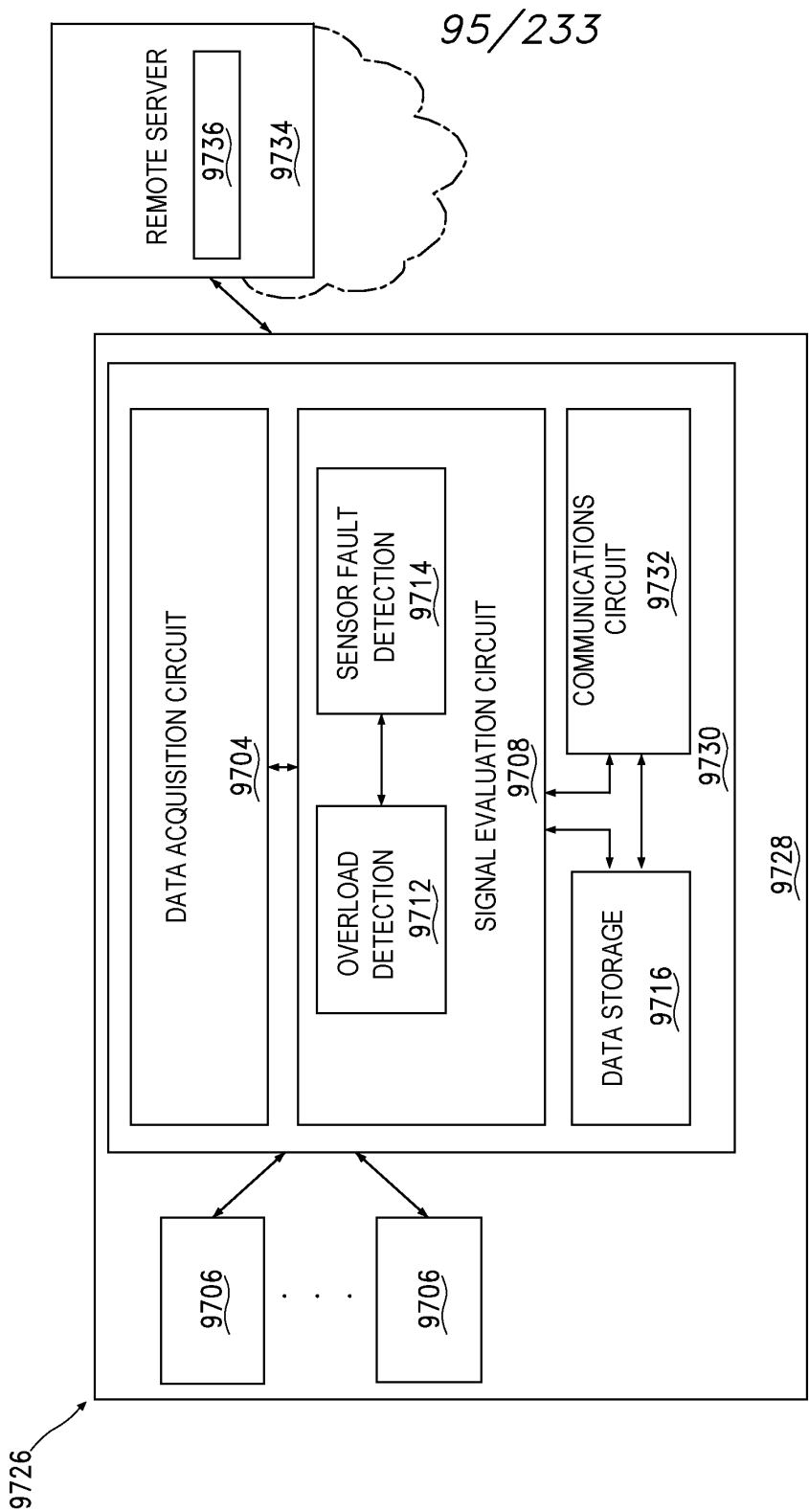


FIG. 95

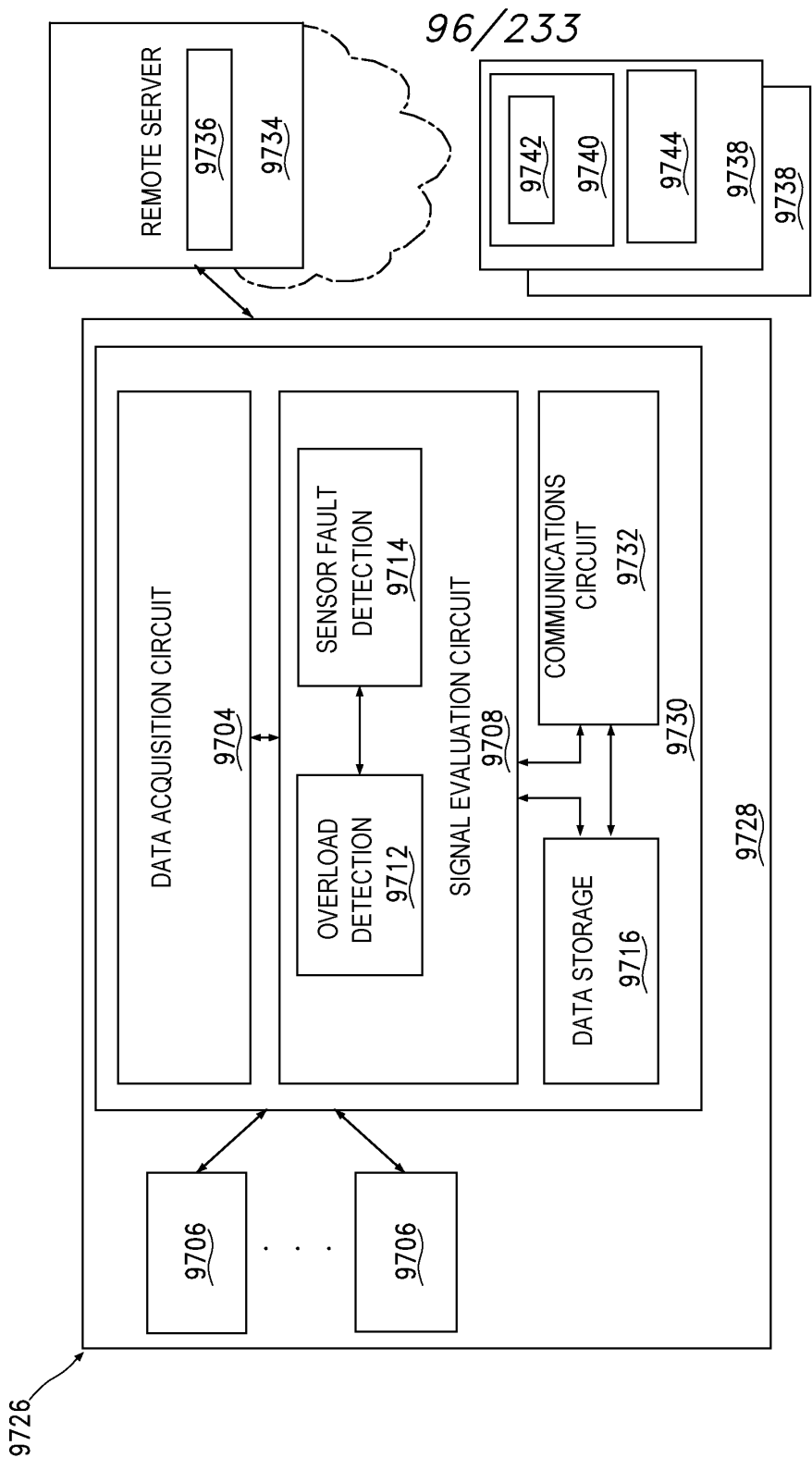


FIG. 96

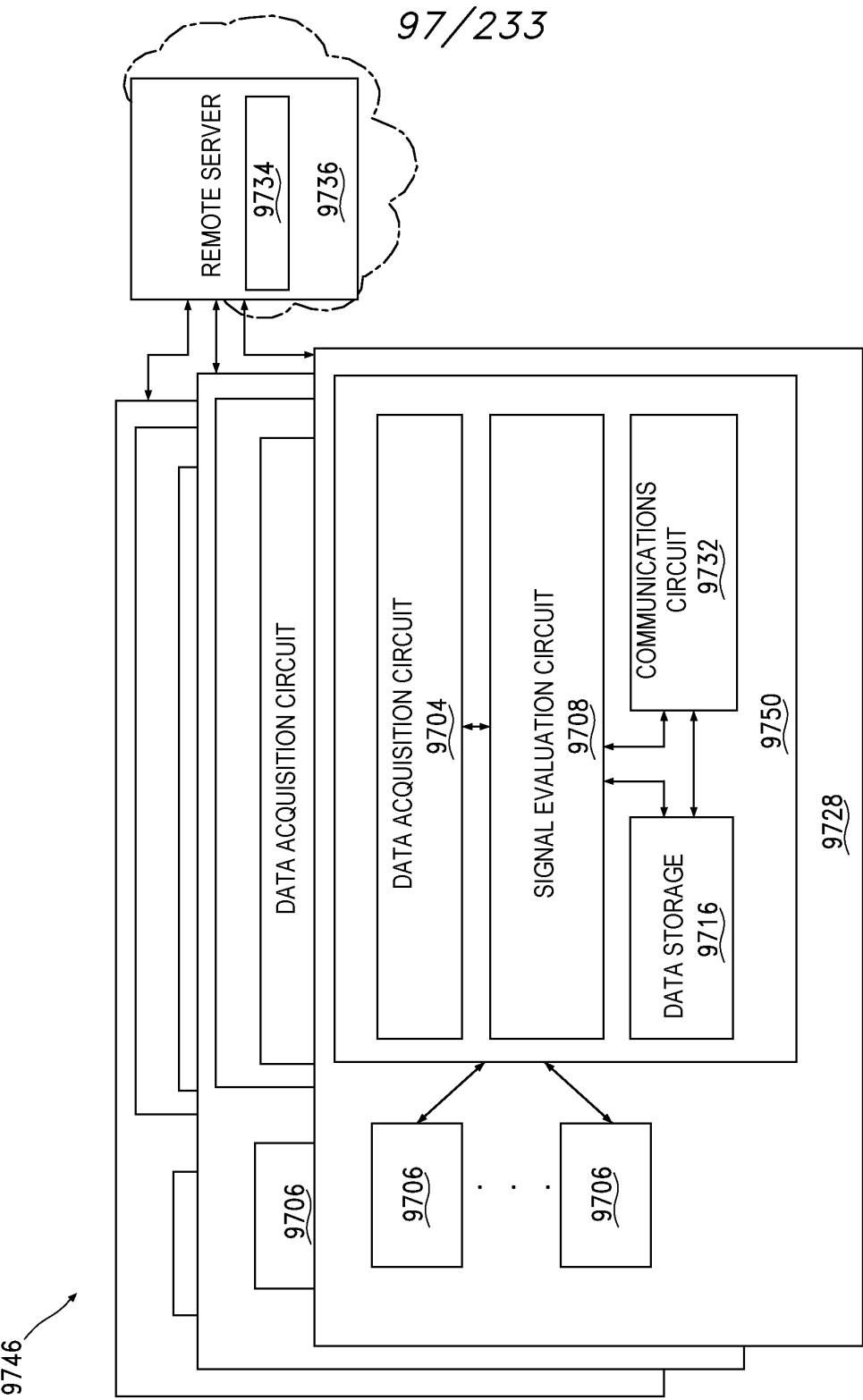


FIG. 97

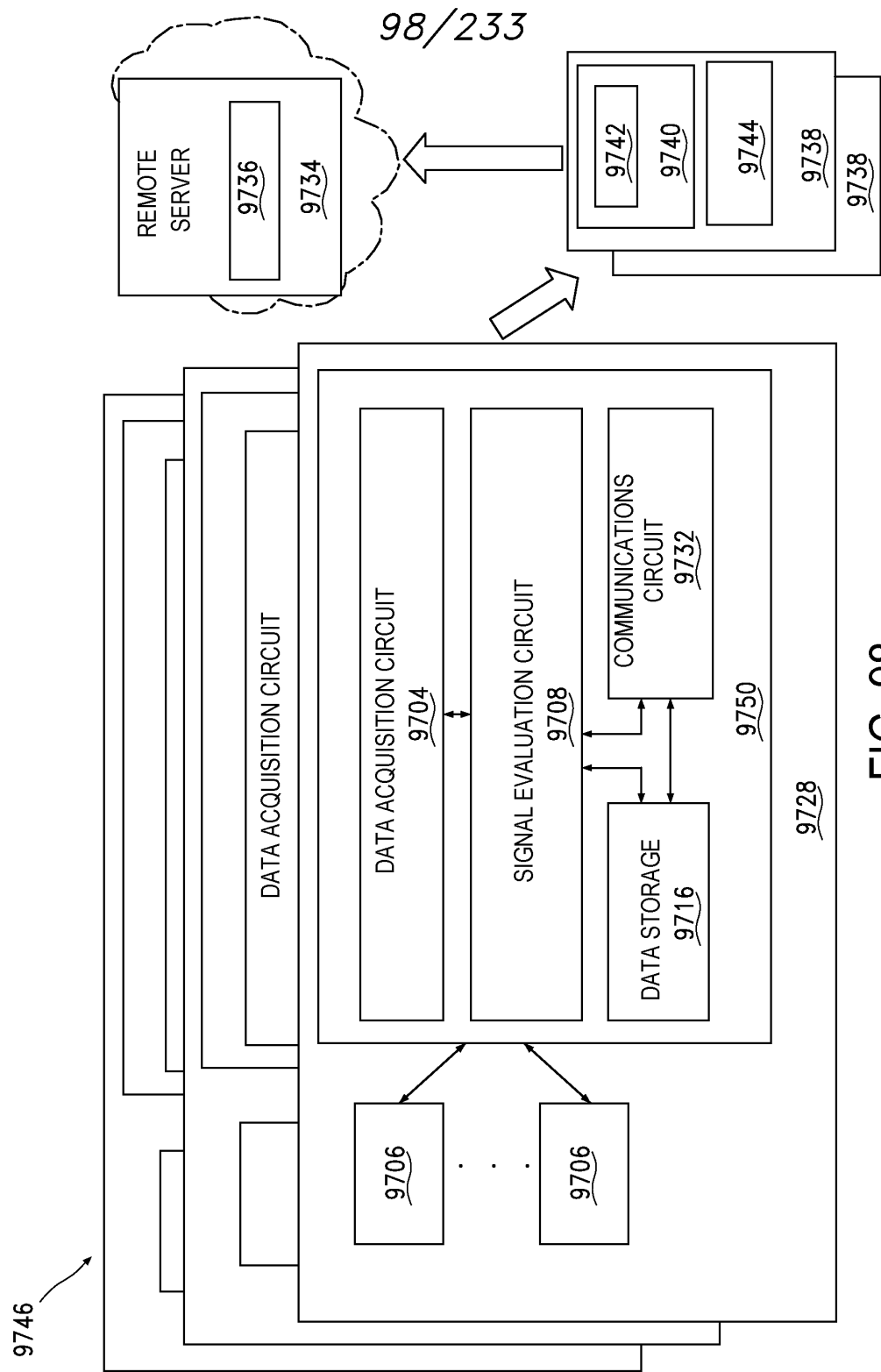


FIG. 98

99/233

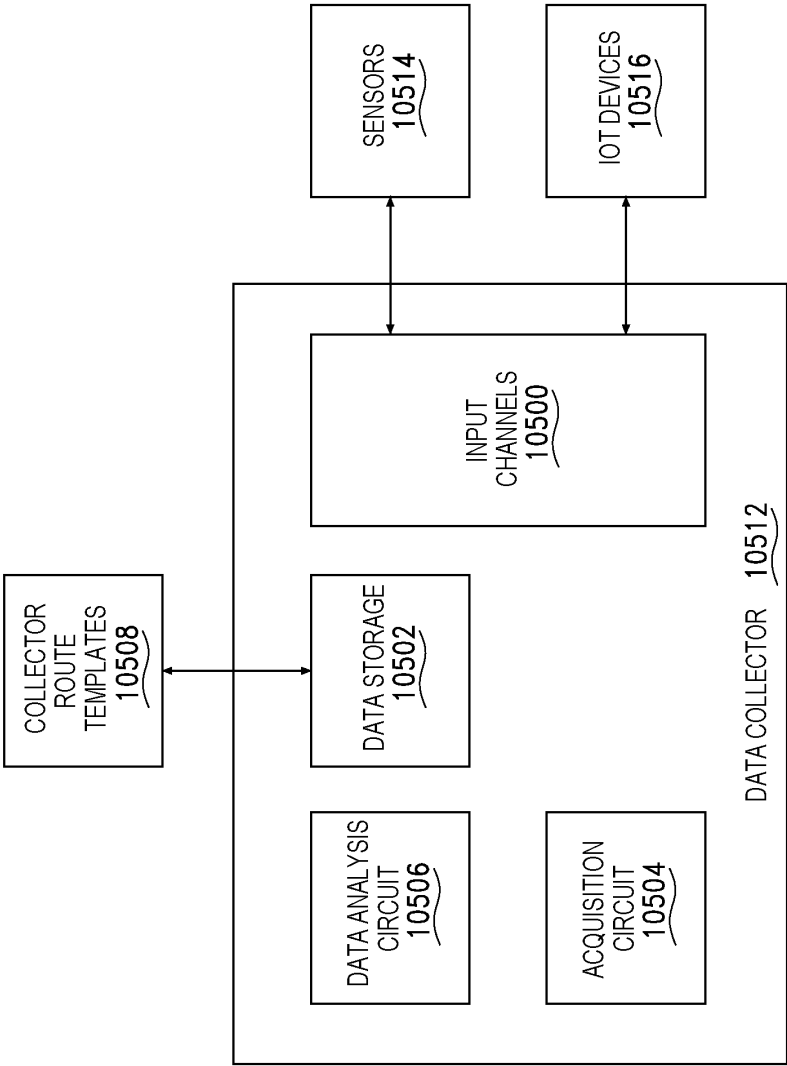


FIG. 99

100/233

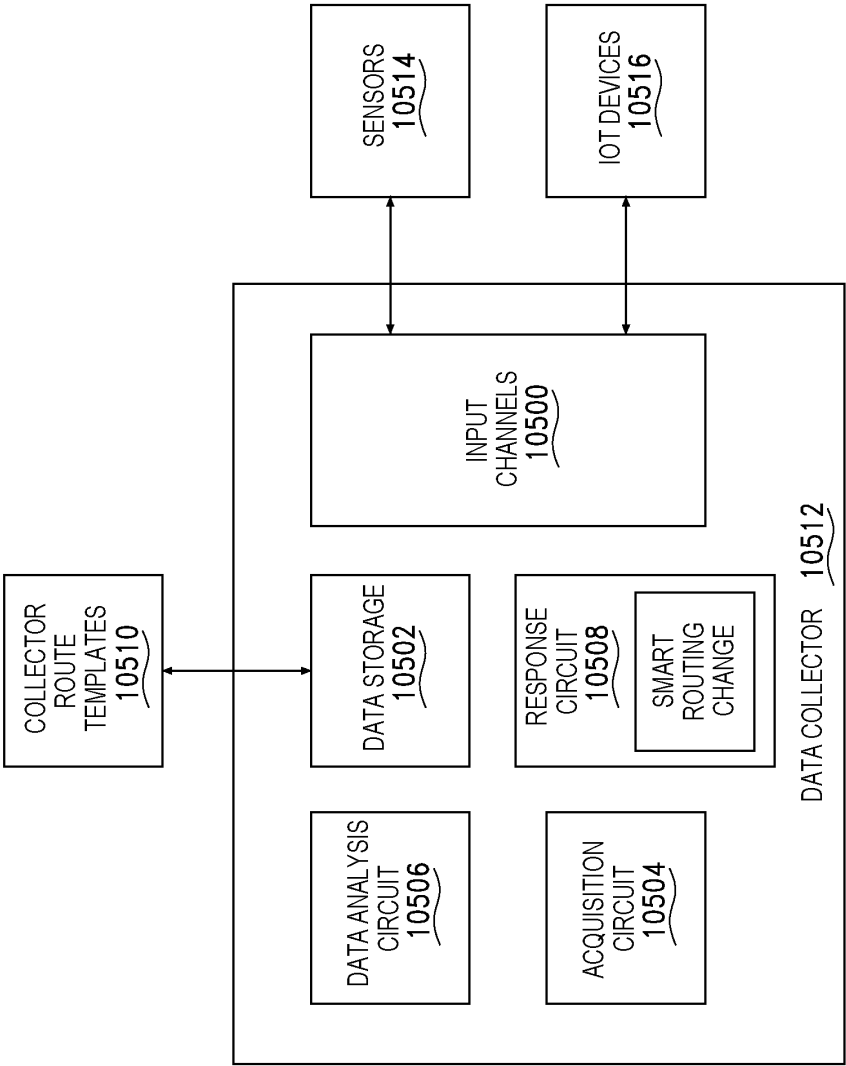


FIG. 100

101/233

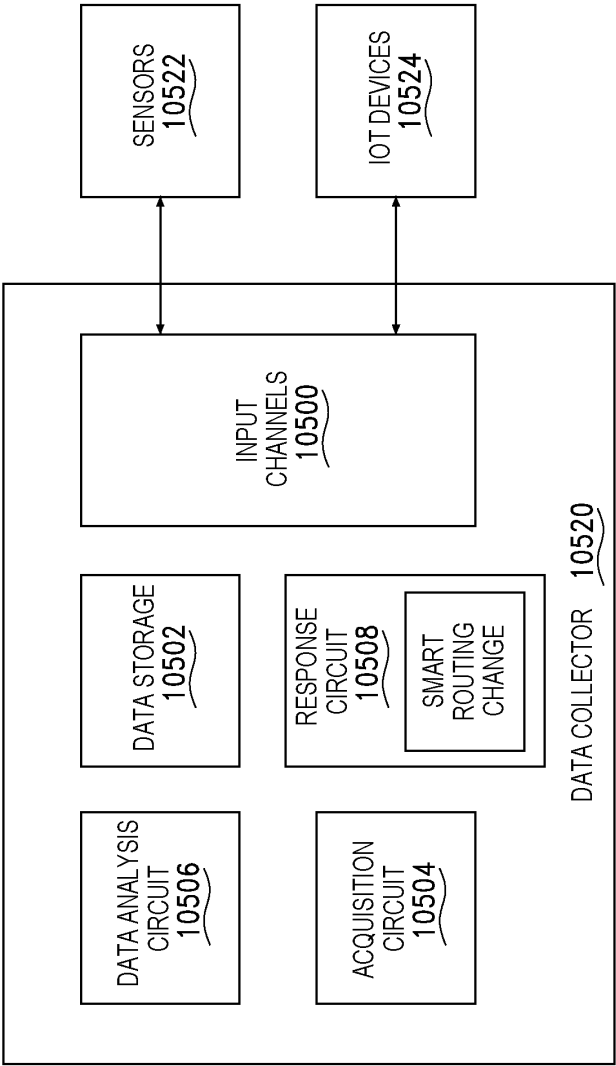


FIG. 101

102/233

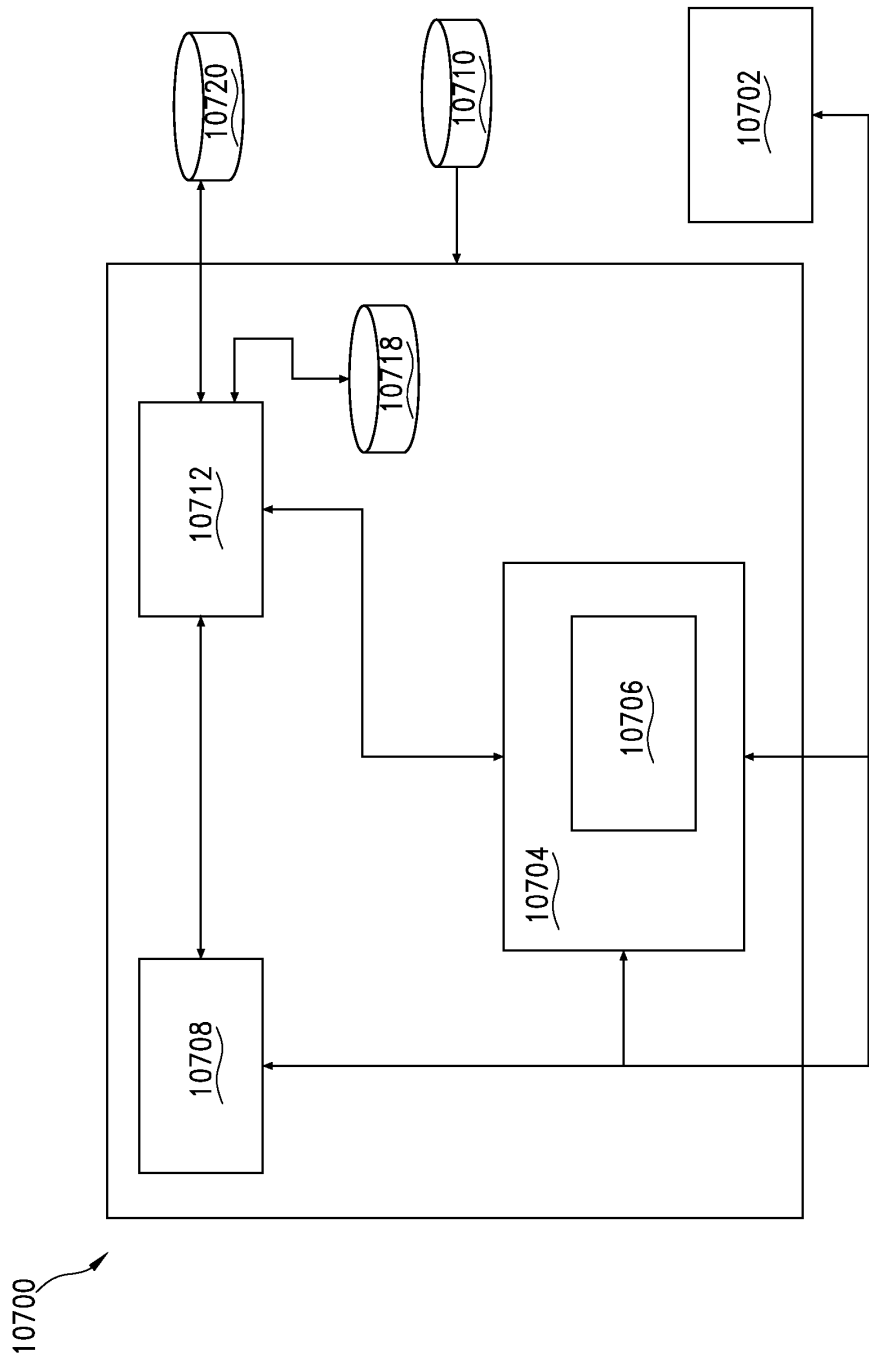


FIG. 102

103/233

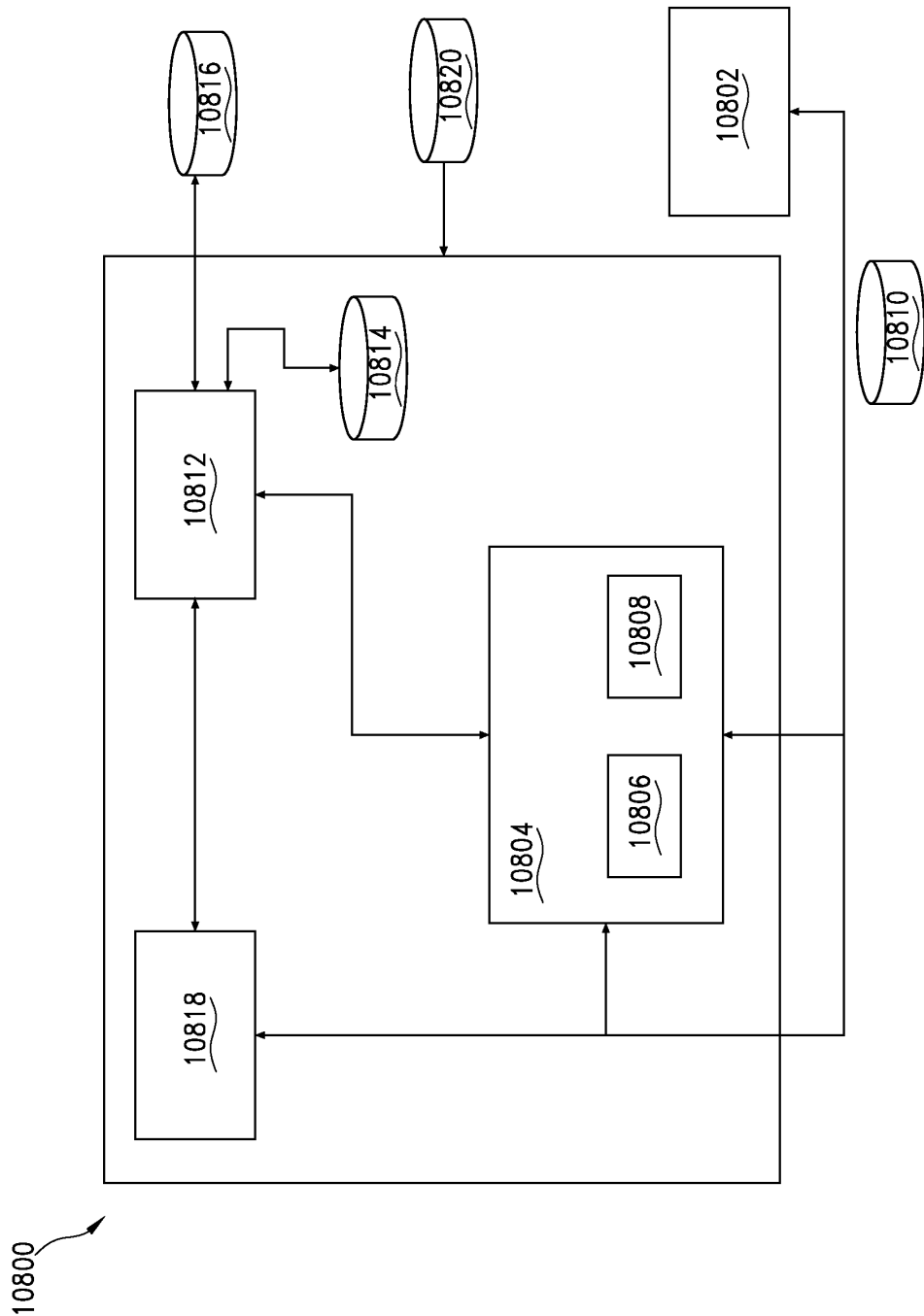


FIG. 103

104/233

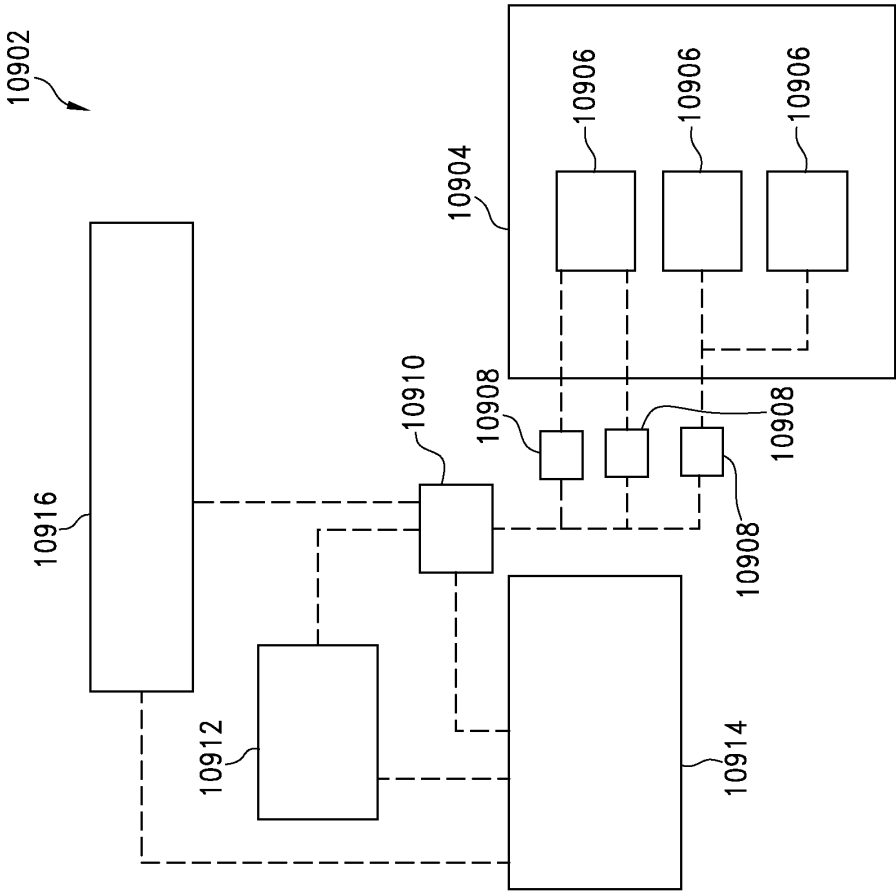


FIG. 104

105/233

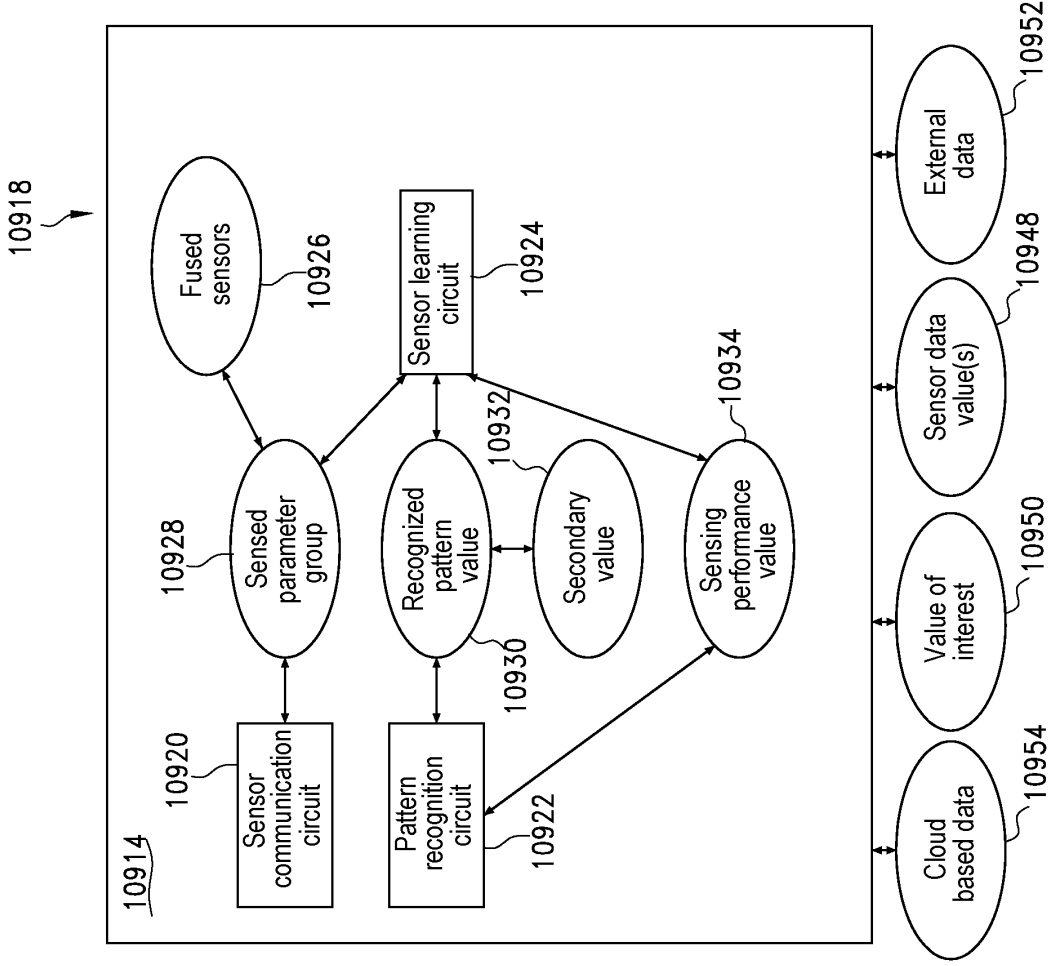


FIG. 105

106/233

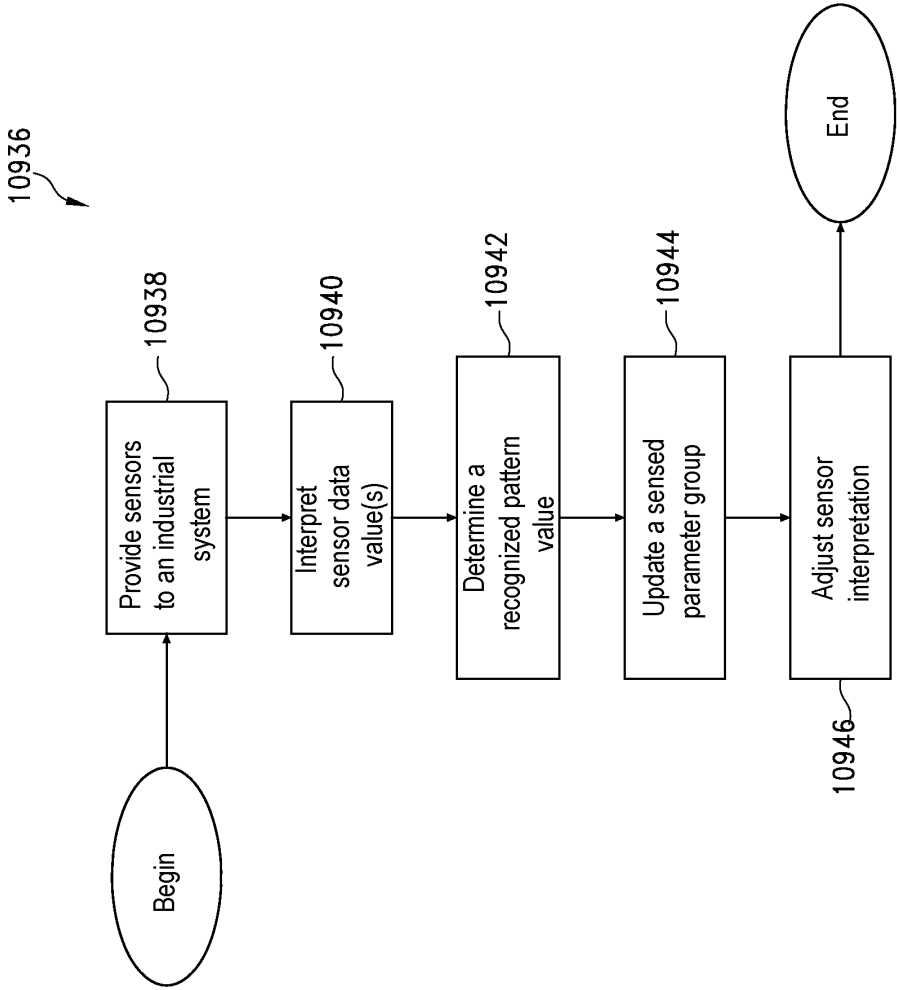


FIG. 106

107/233

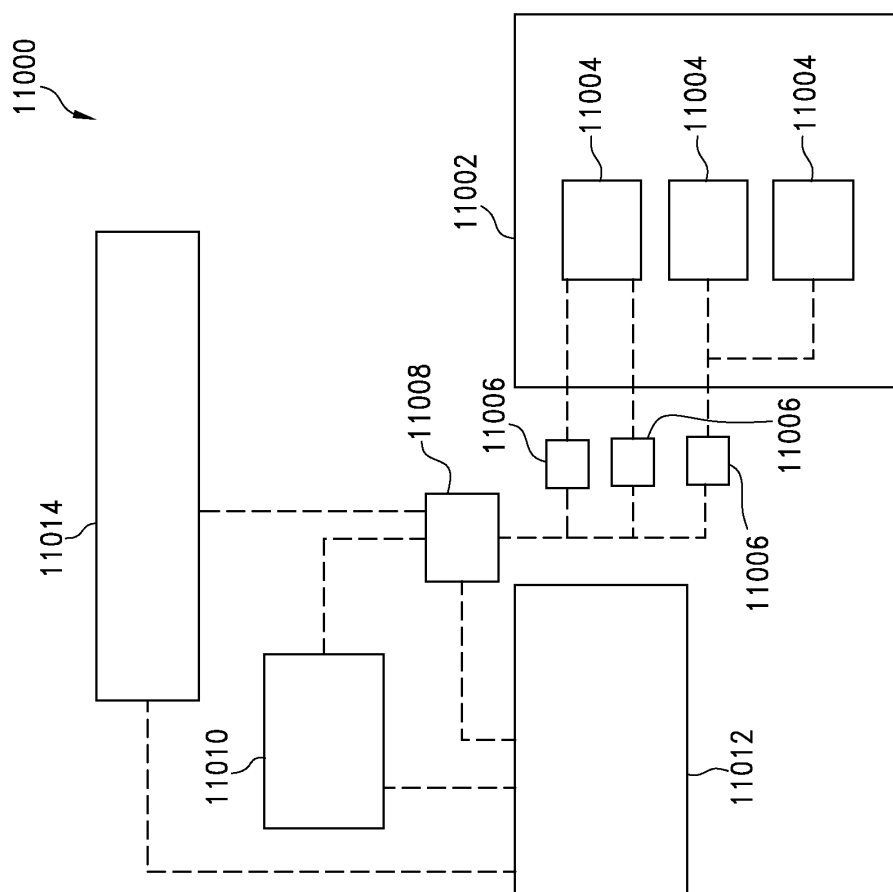


FIG. 107

108/233

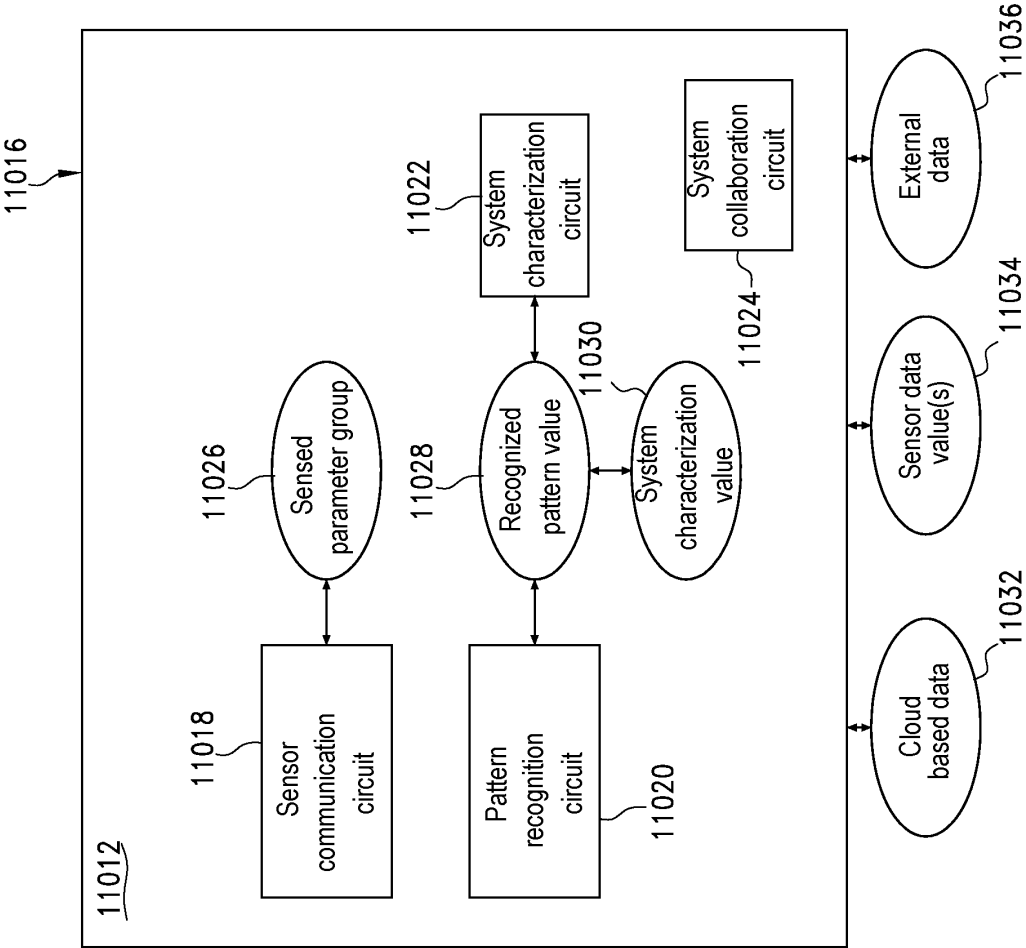


FIG. 108

109/233

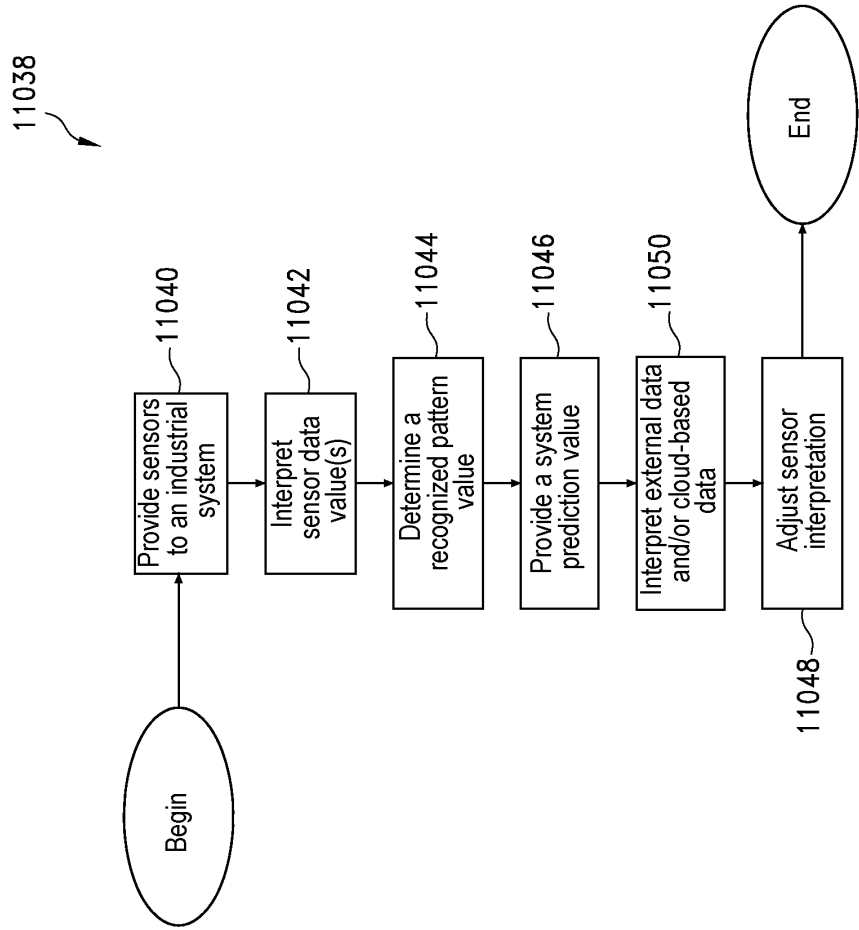


FIG. 109

110/233

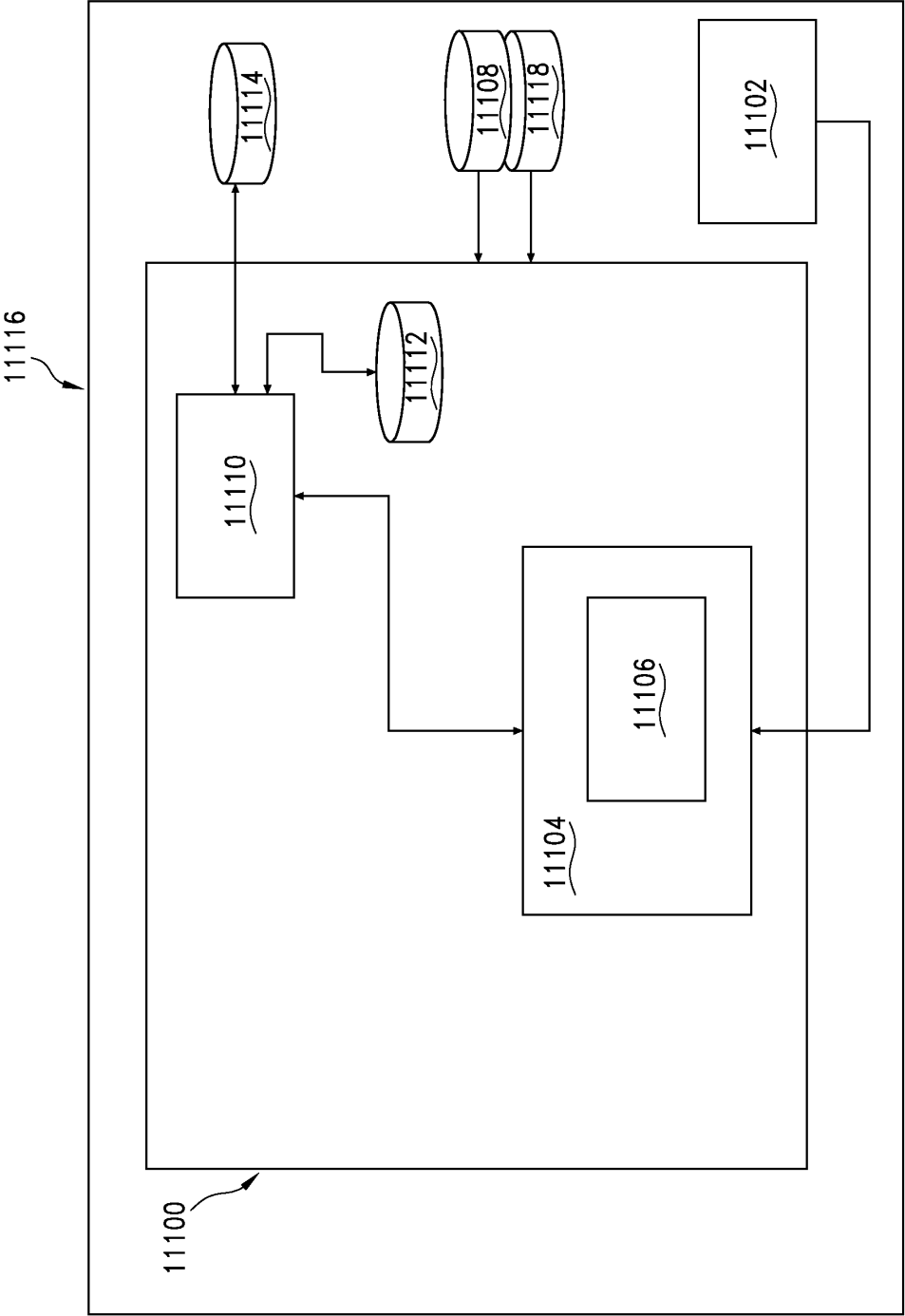


FIG. 110

111/233

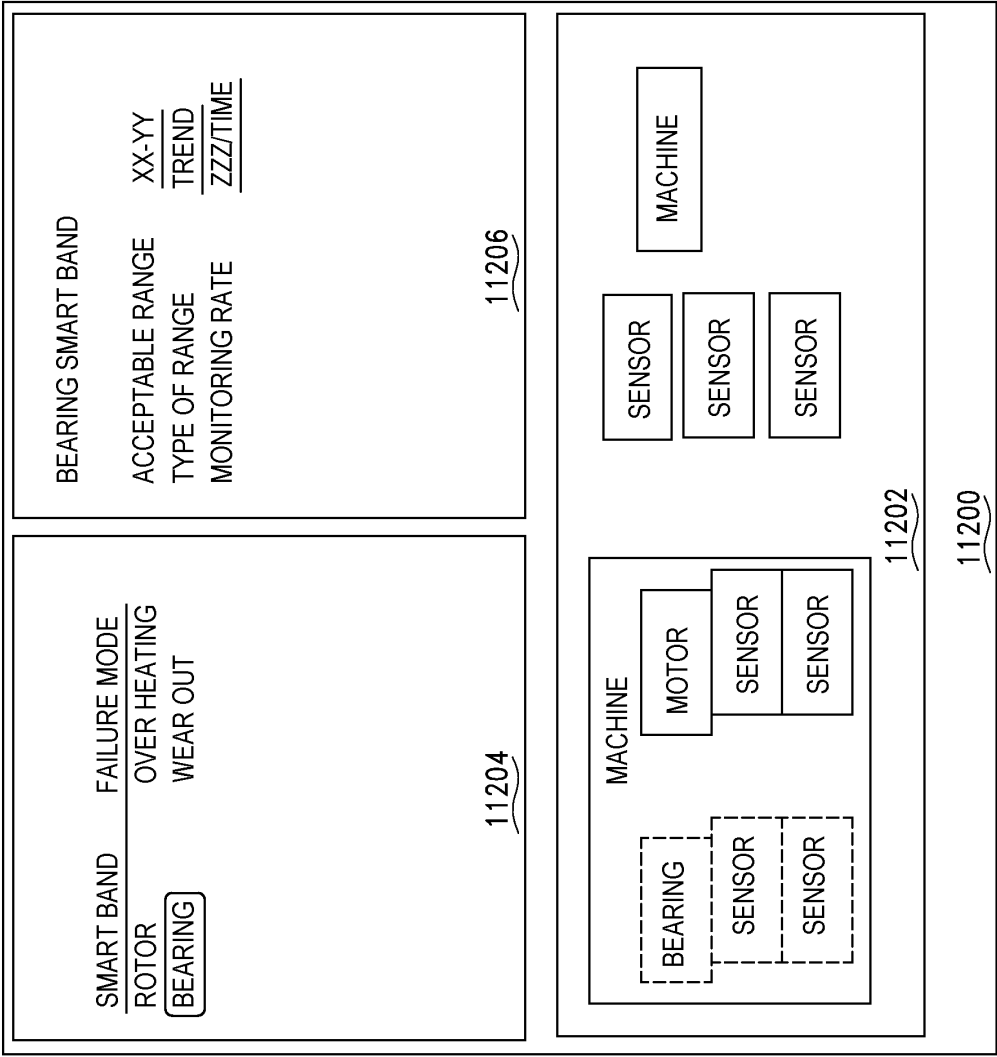


FIG. 111

112/233

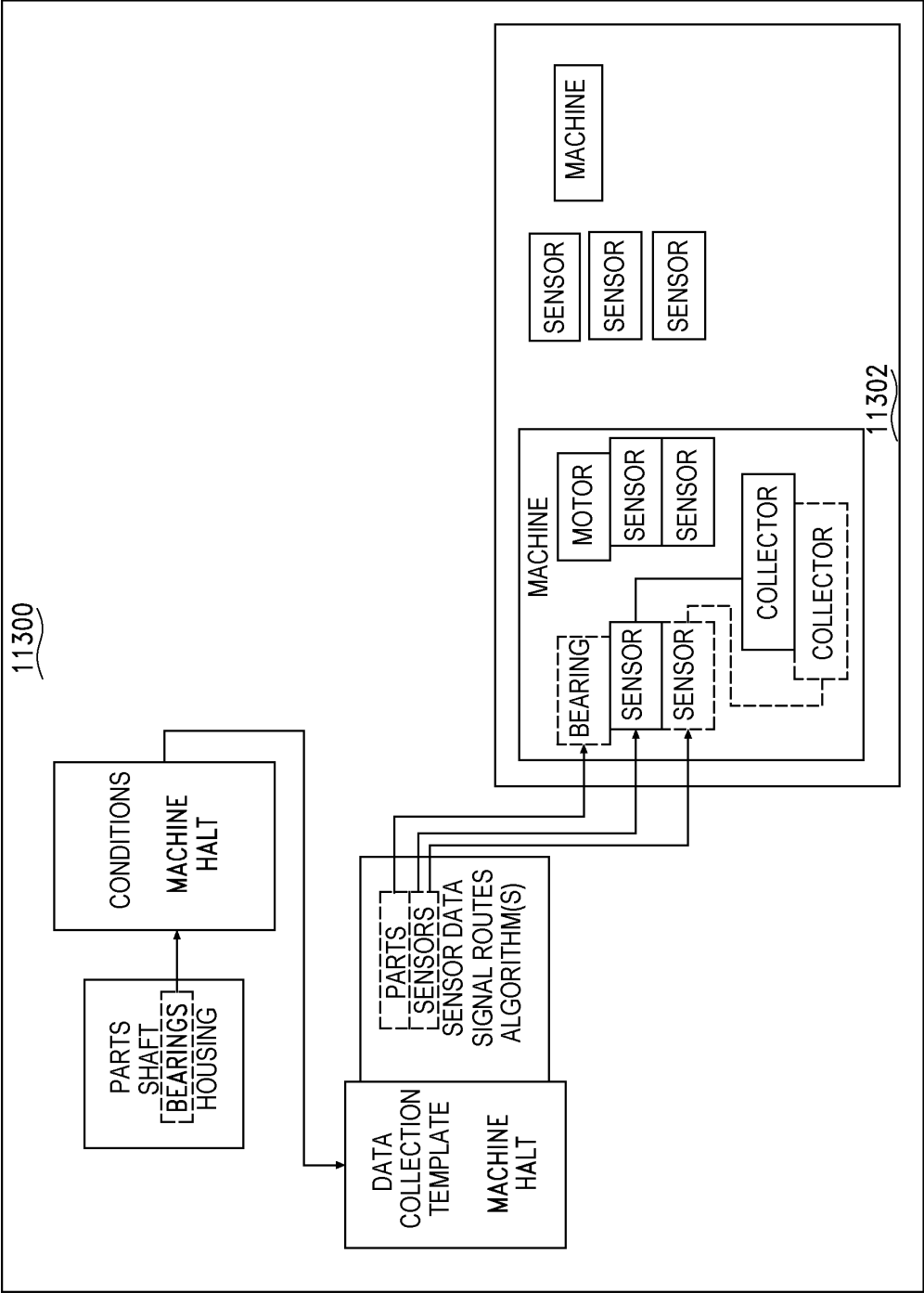


FIG. 112

113/233

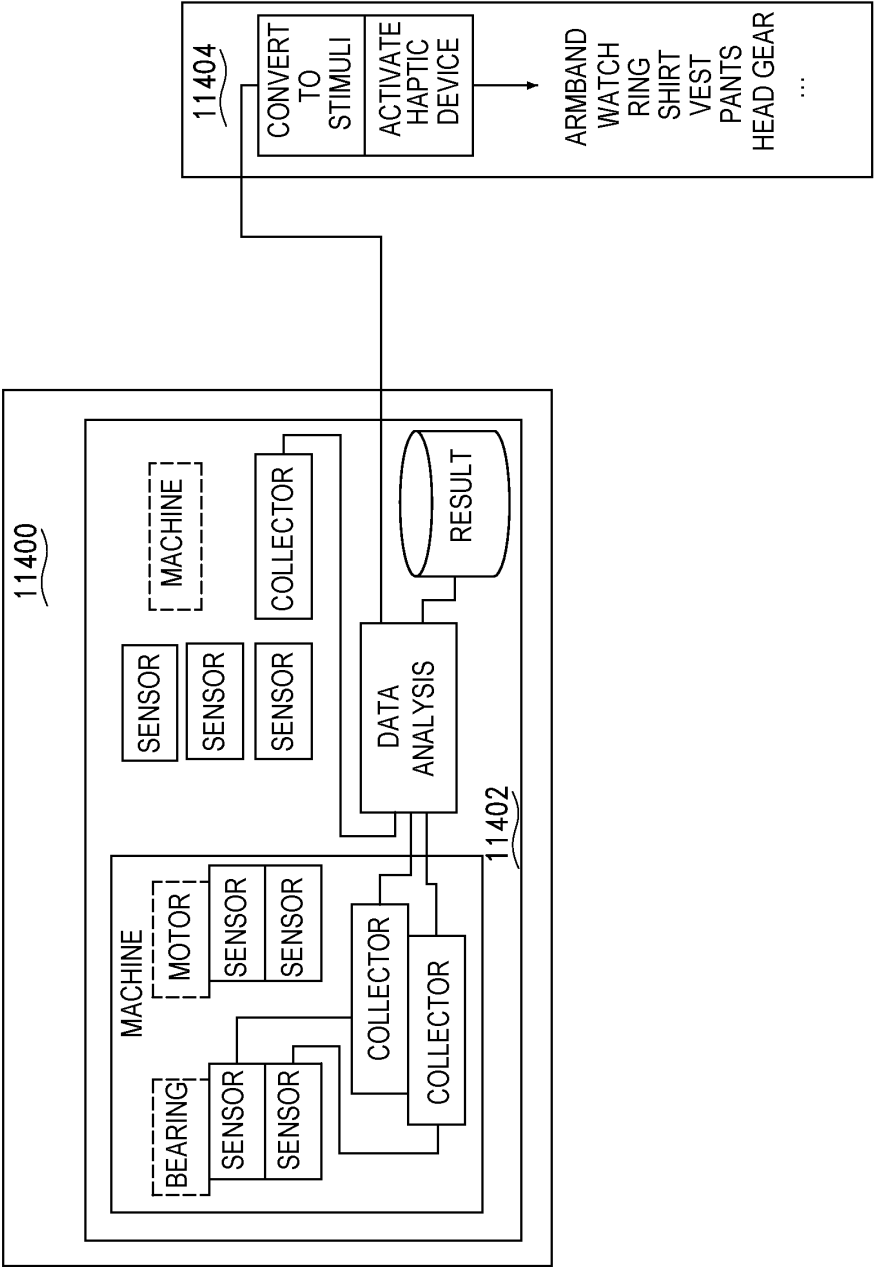


FIG. 113

114/233

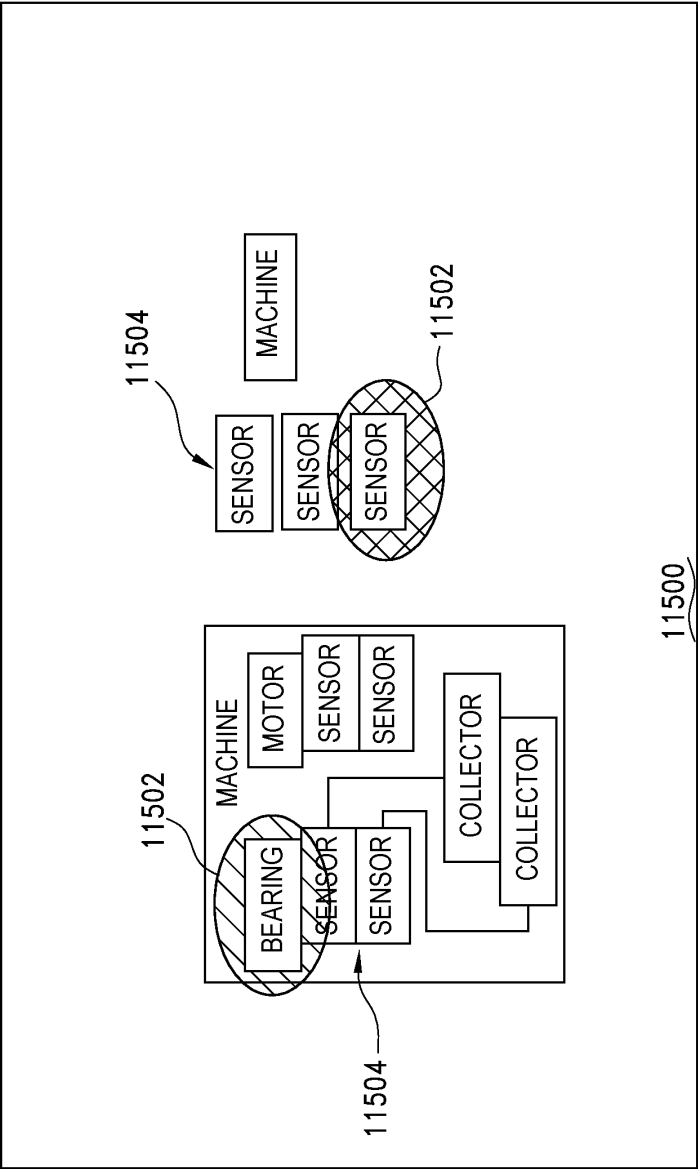


FIG. 114

115/233

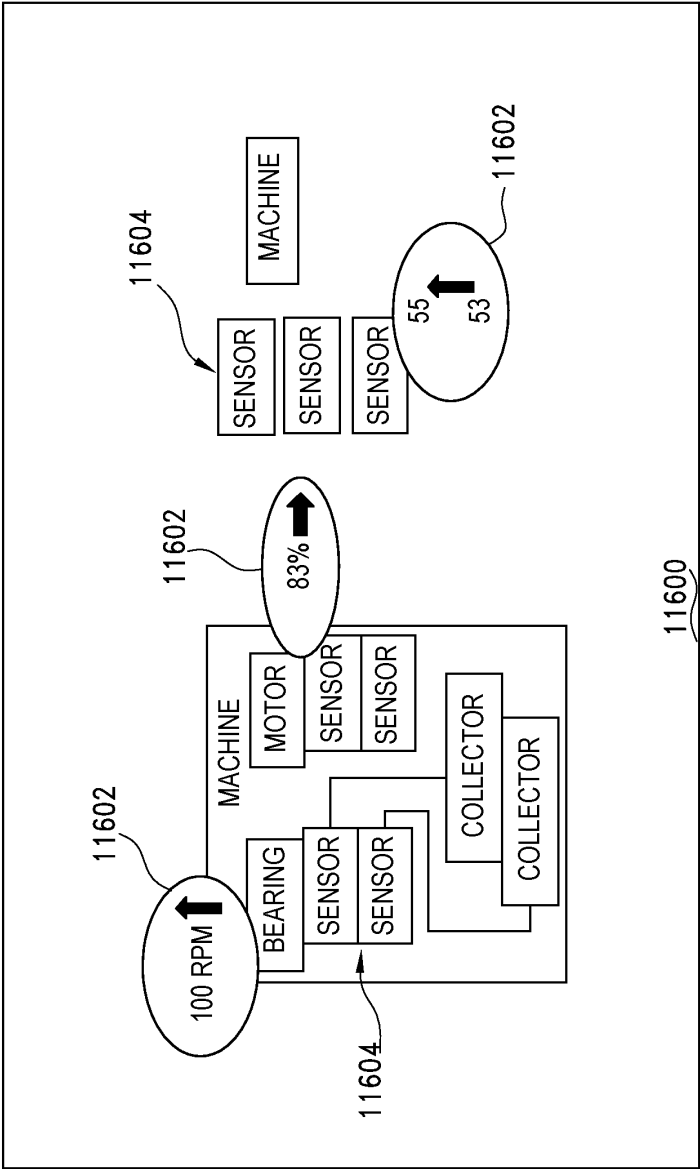
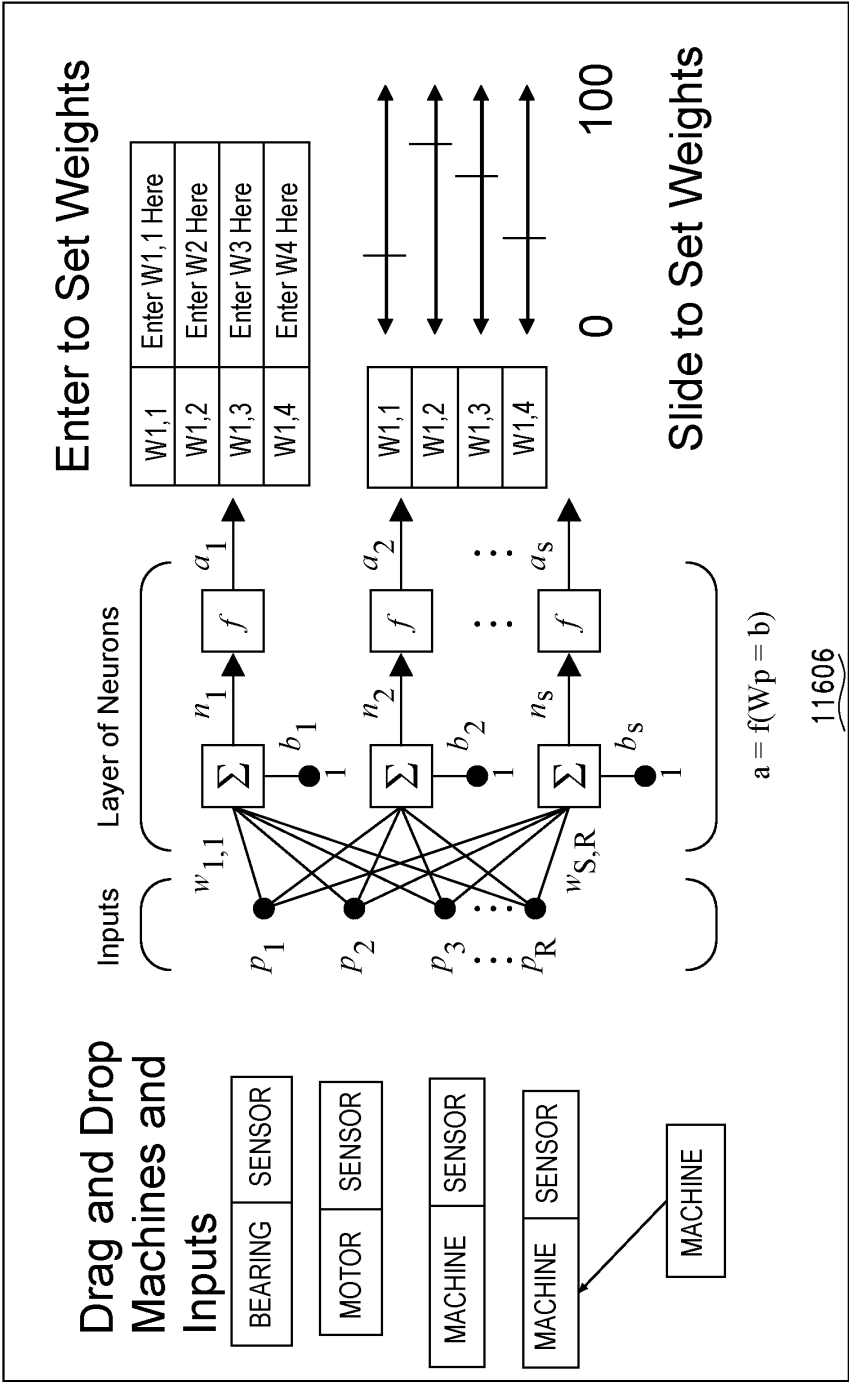


FIG. 115

116/233



117/233

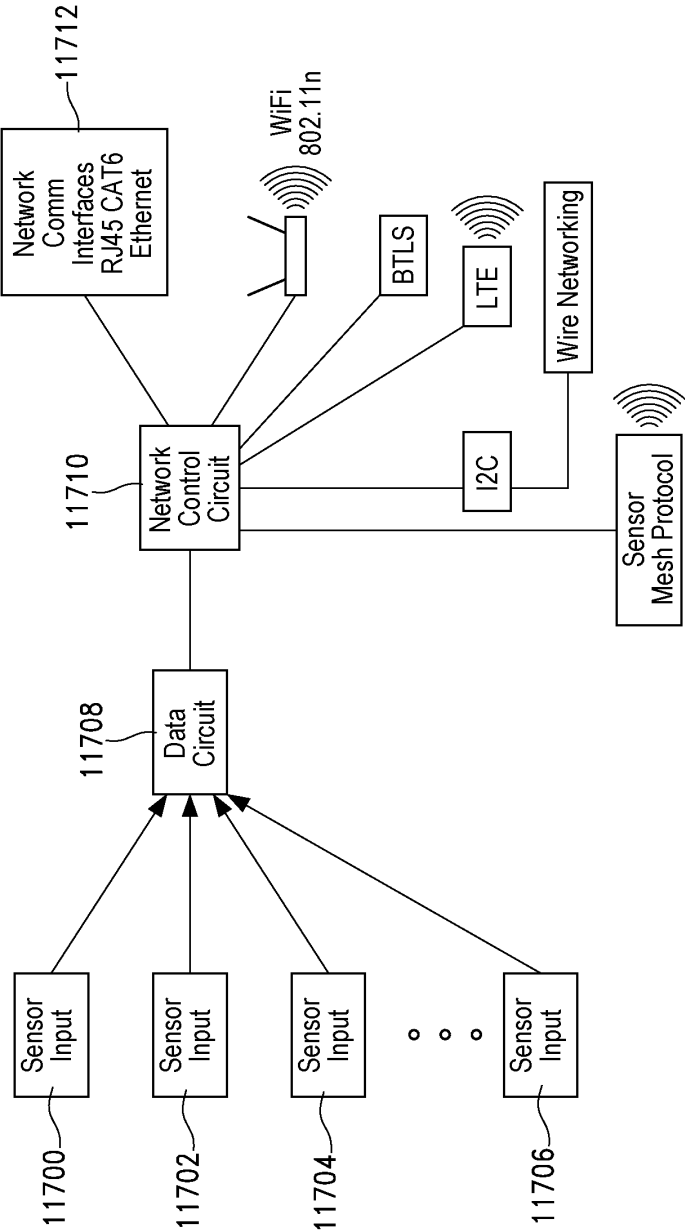


FIG. 117

118/233

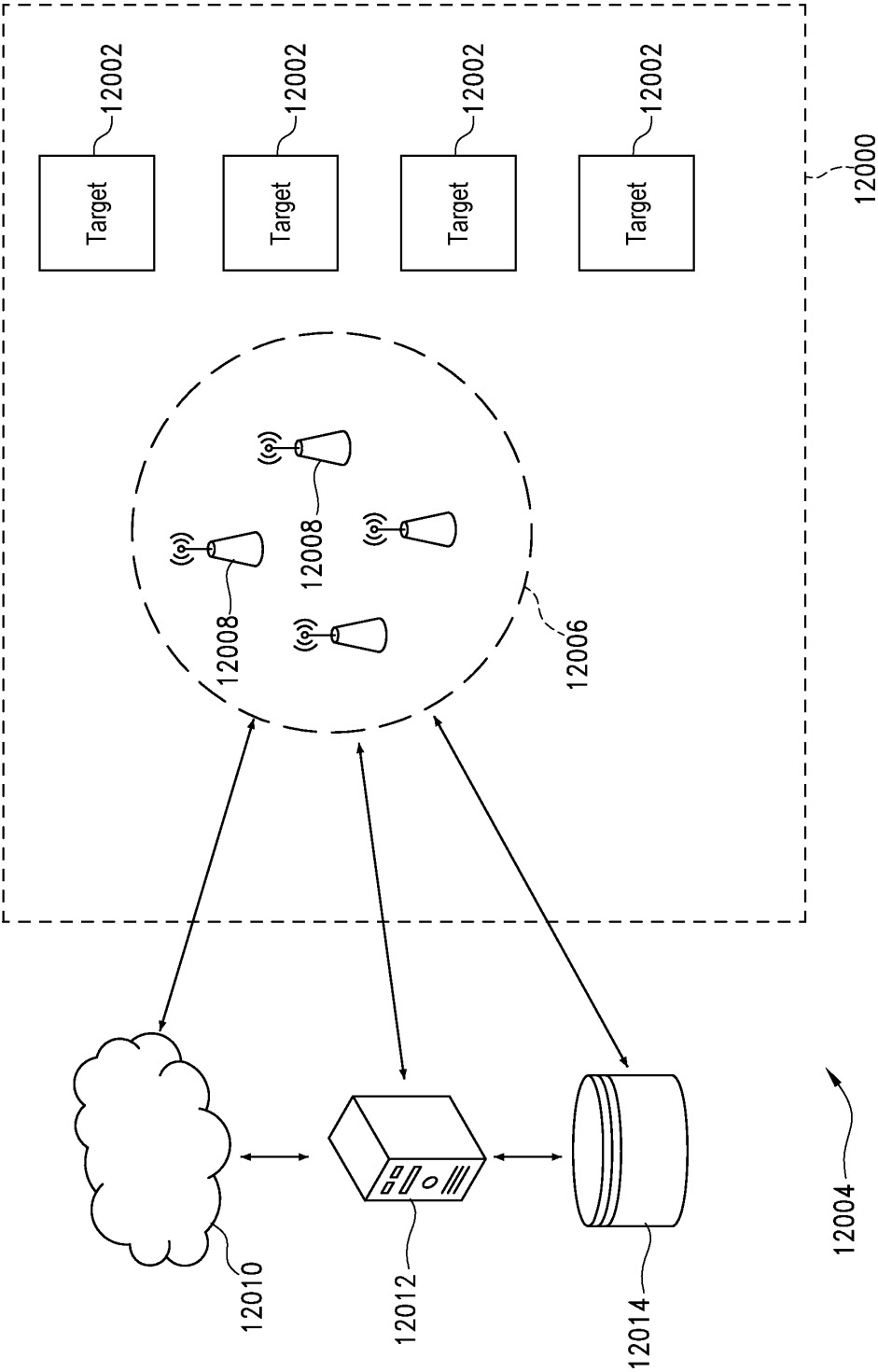


FIG. 118

119/233

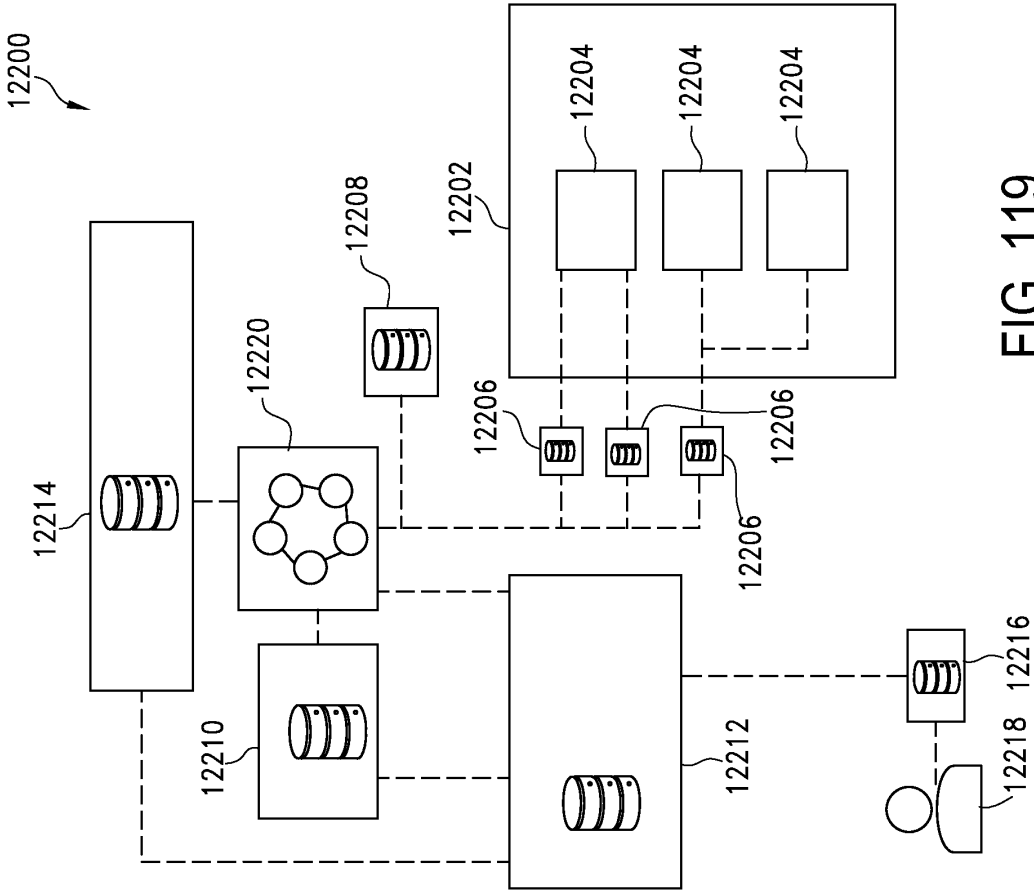


FIG. 119

120/233

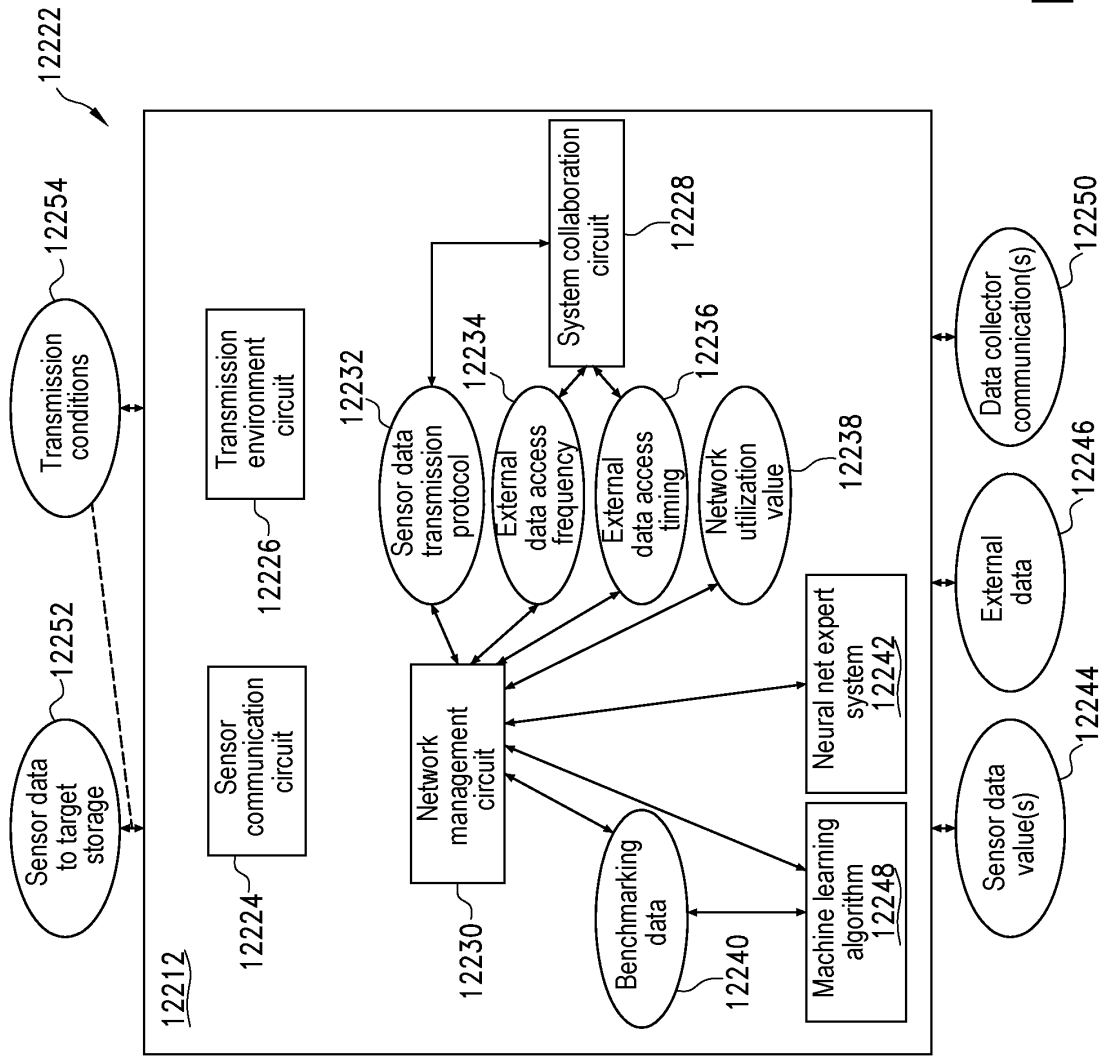


FIG. 120

121/233

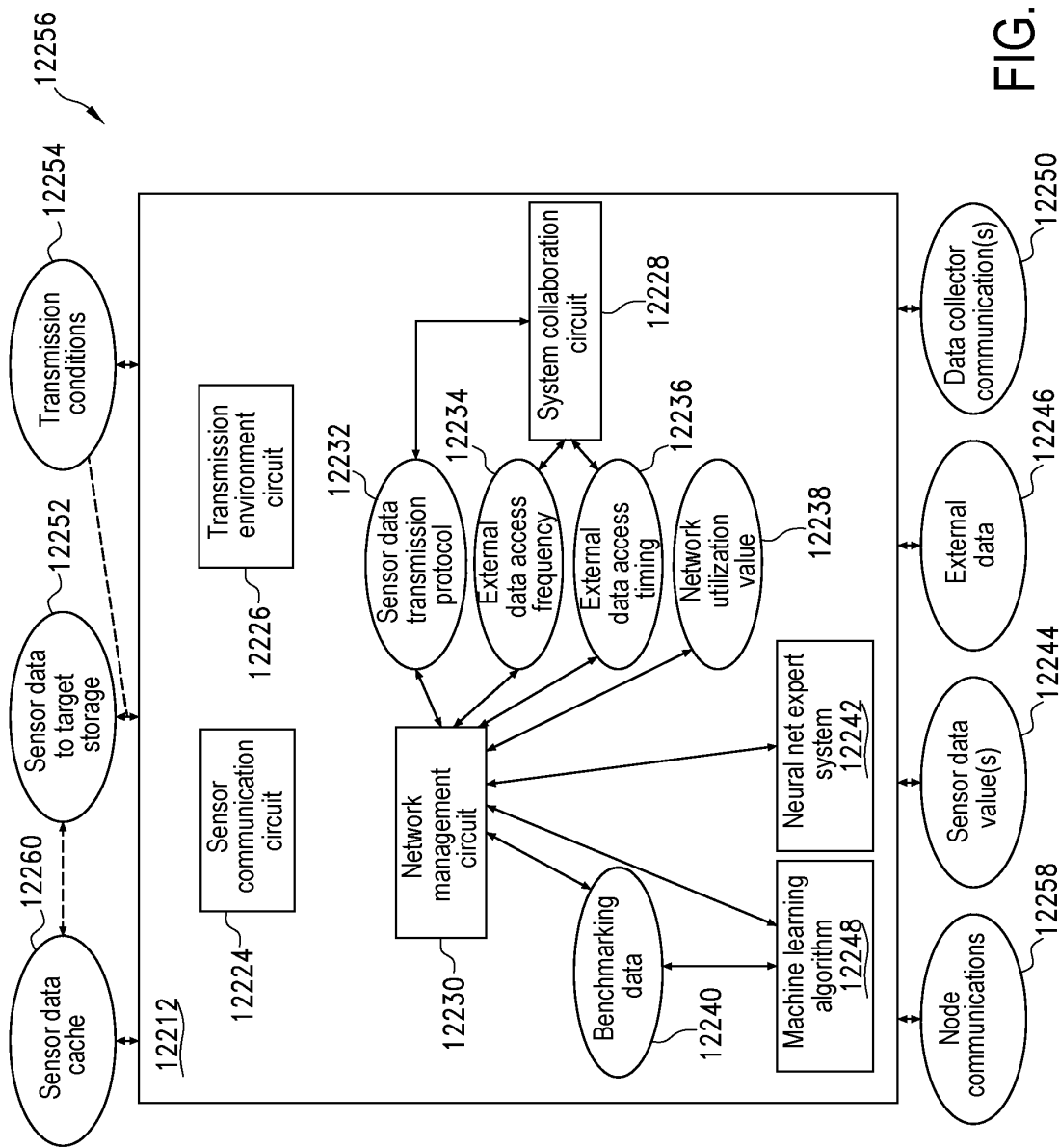
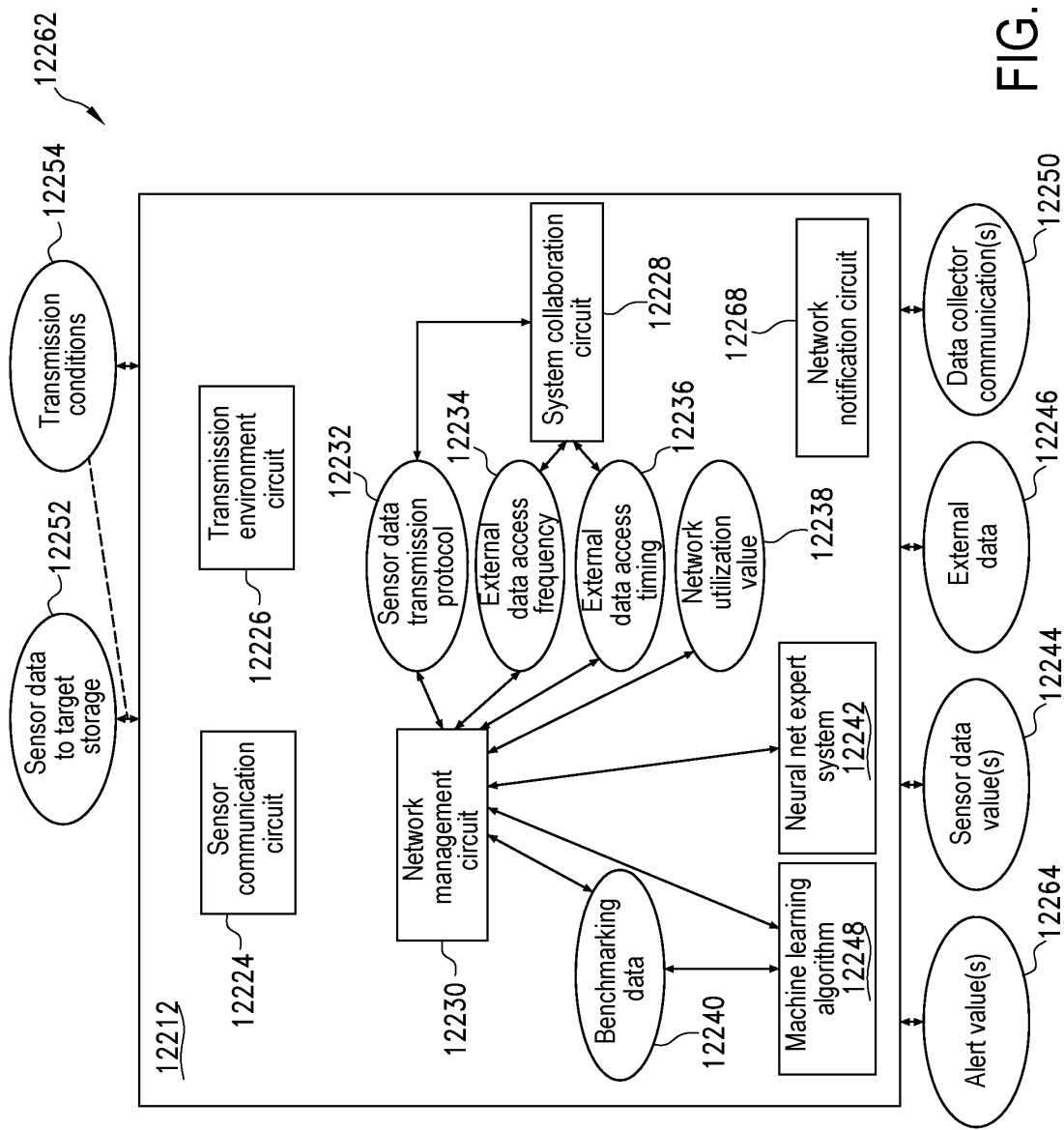


FIG. 121

122/233



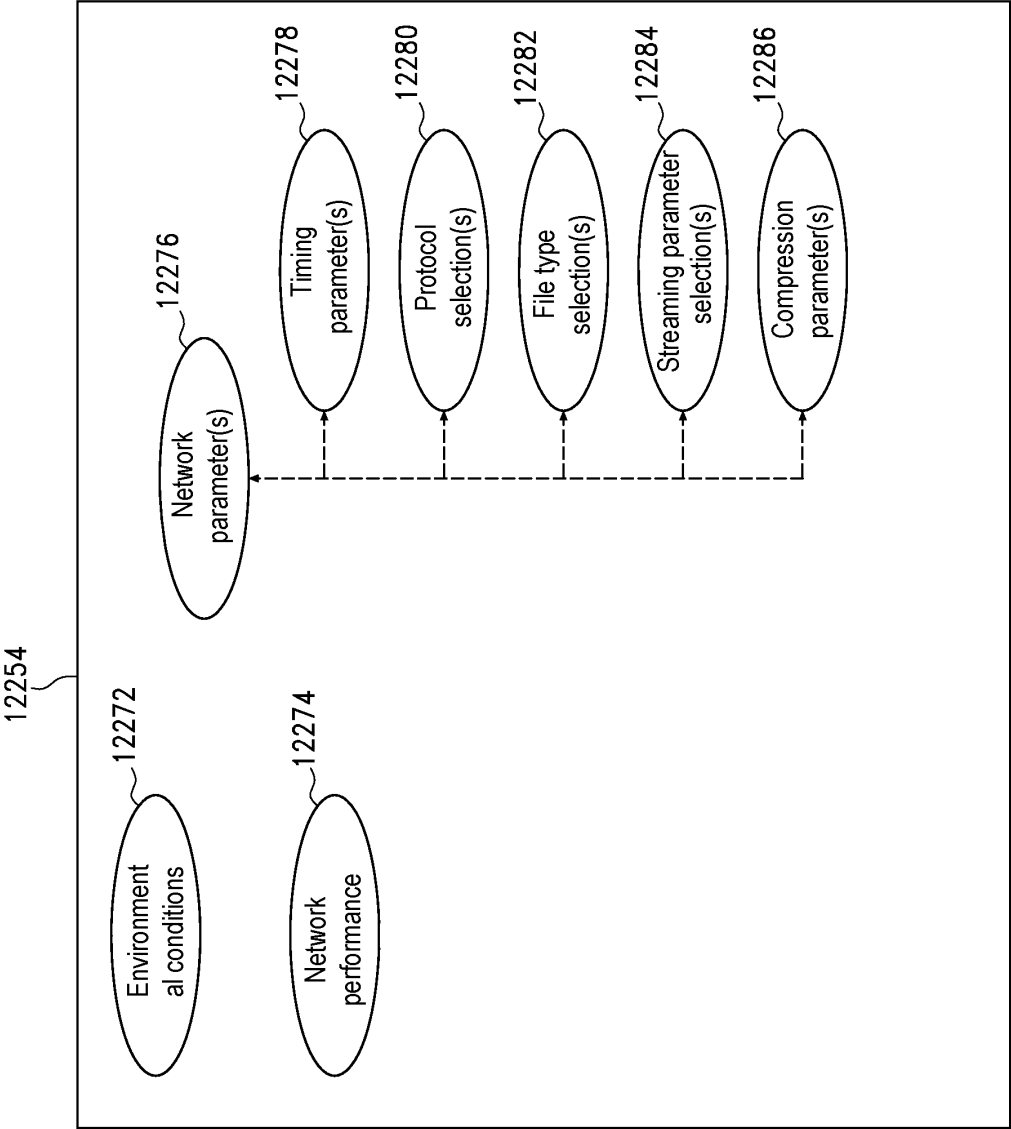


FIG. 123

124/233

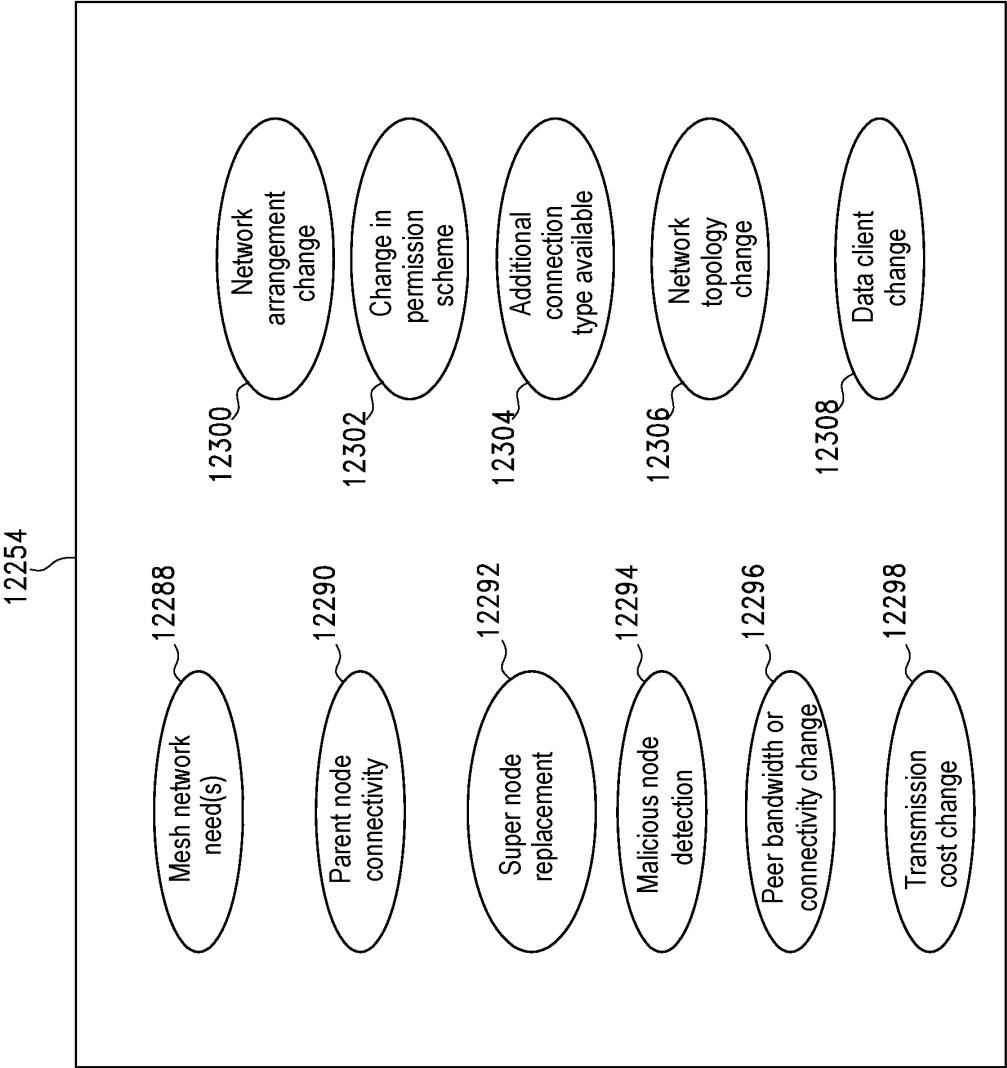


FIG. 124

125/233

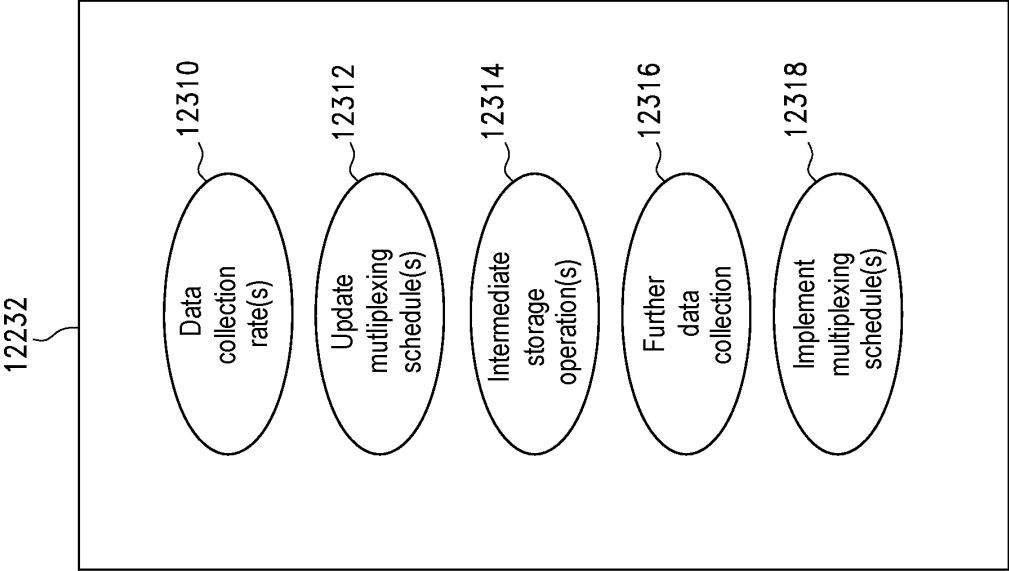


FIG. 125

126/233

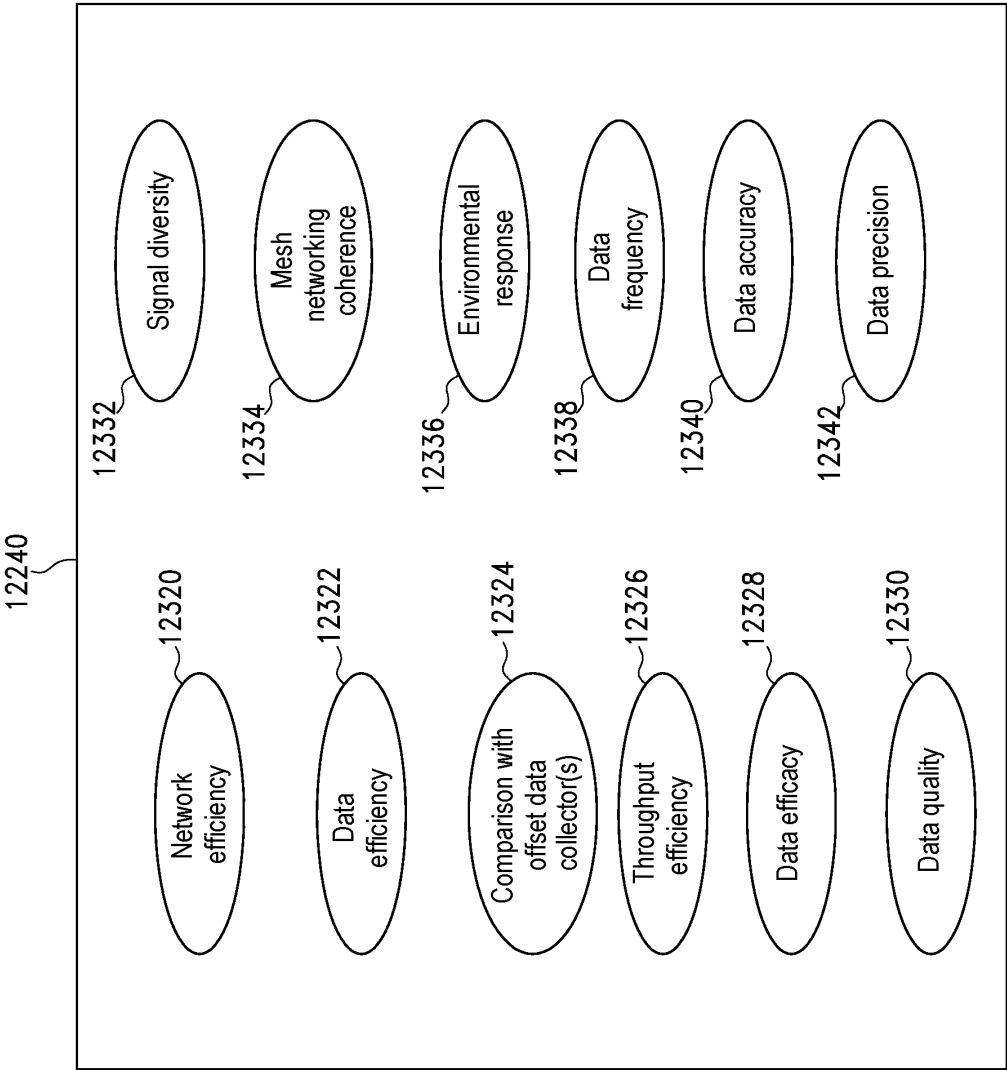


FIG. 126

127/233

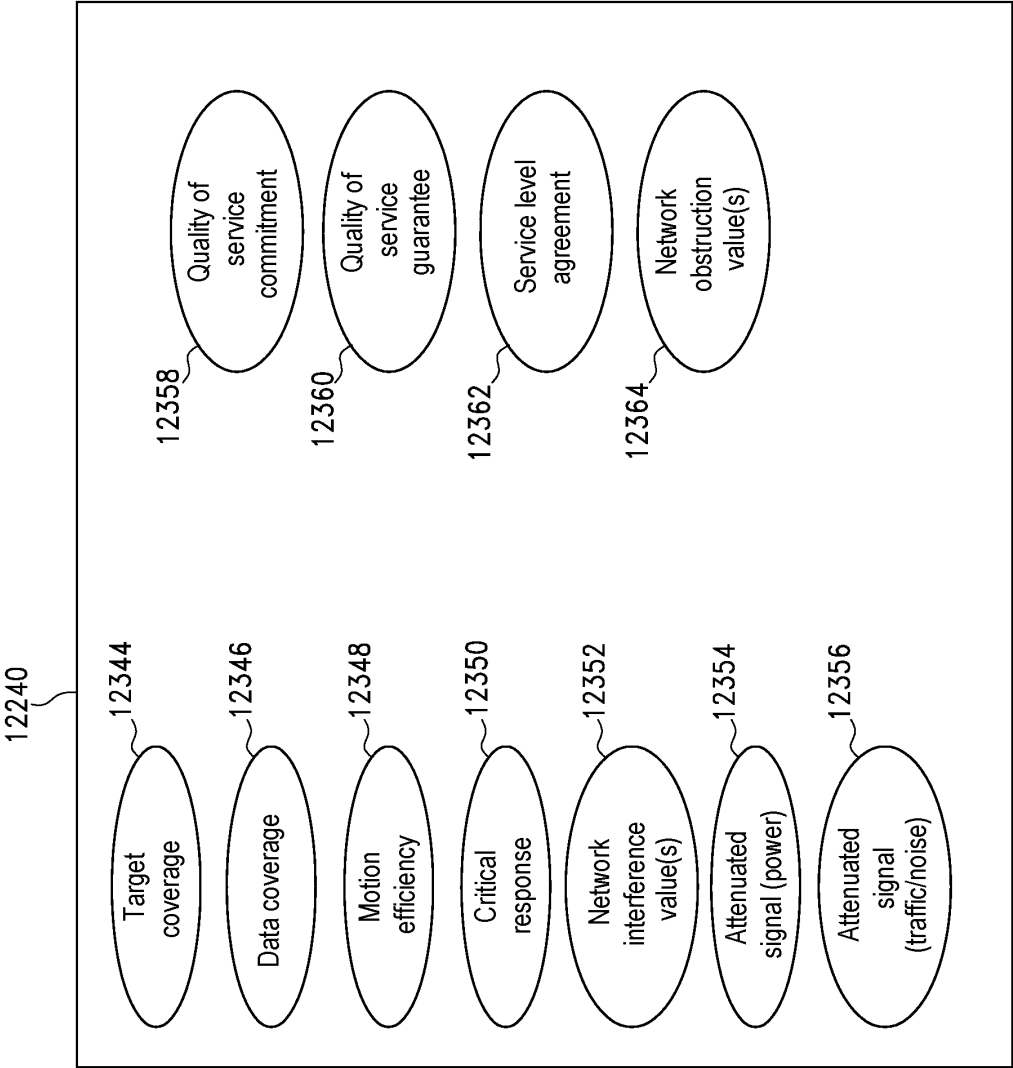


FIG. 127

128/233

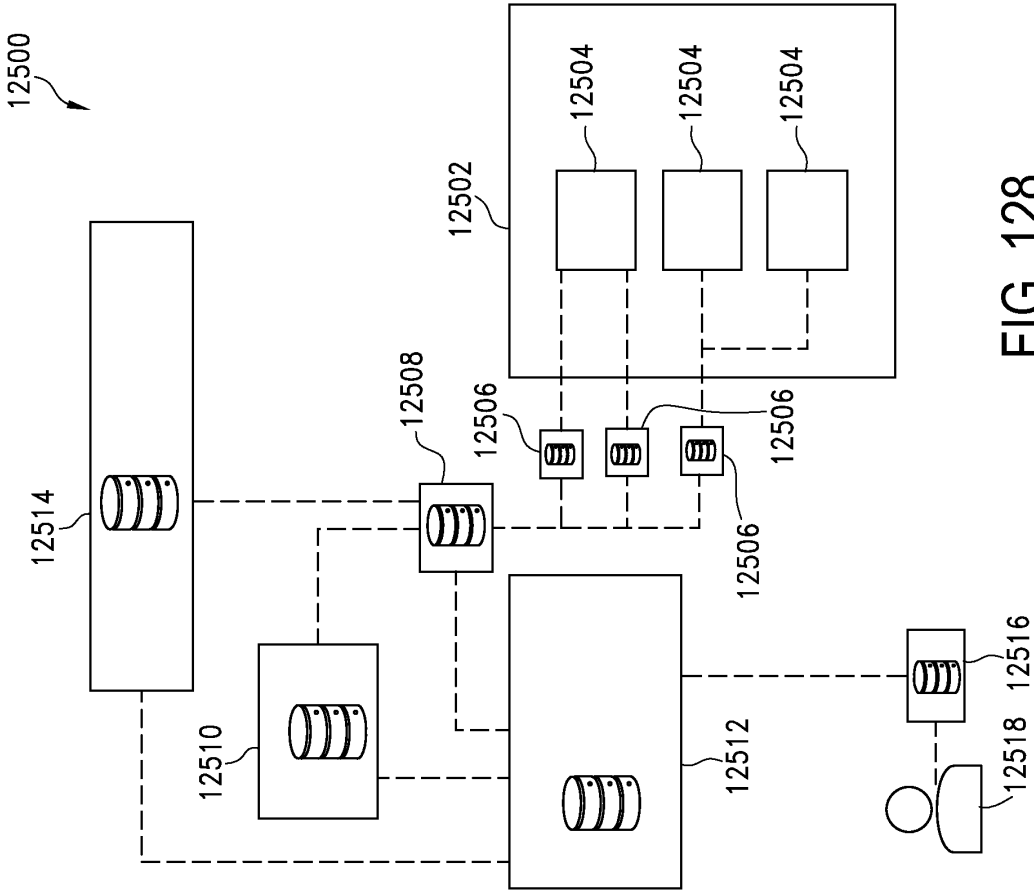


FIG. 128

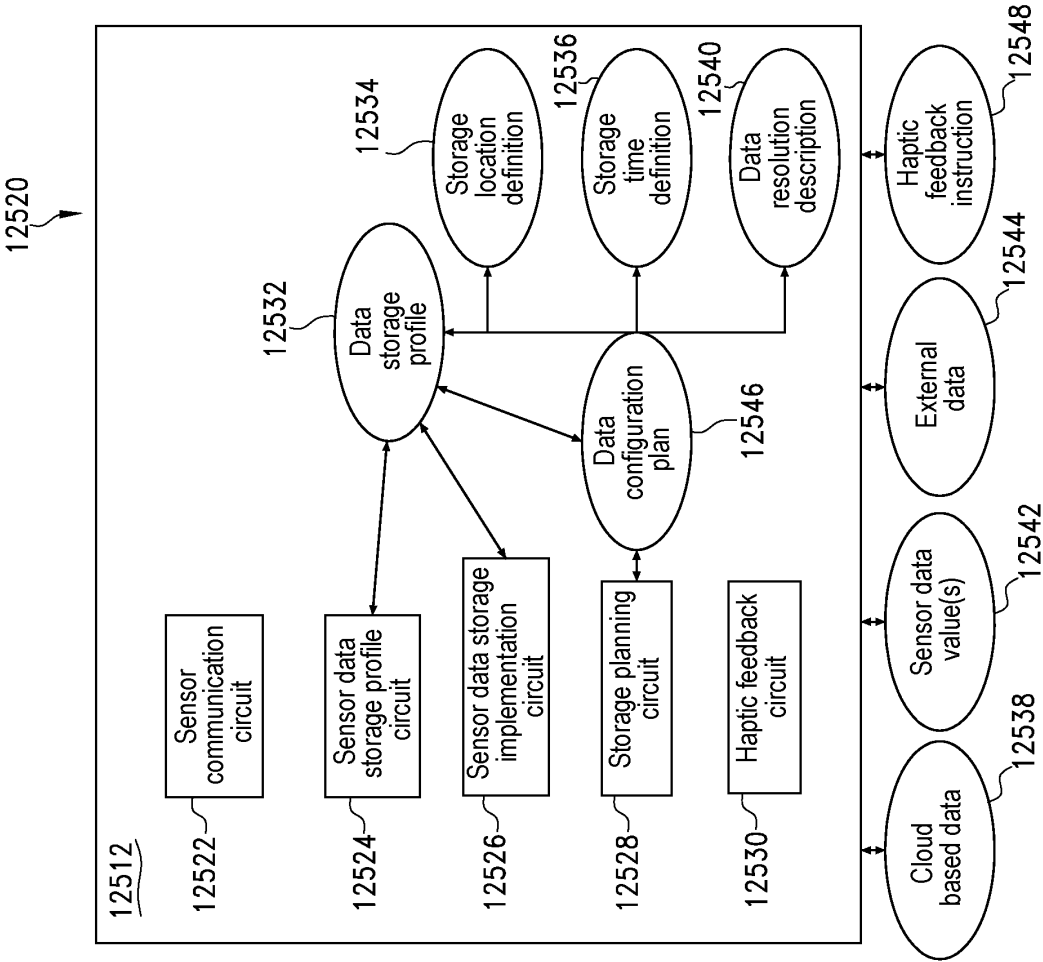


FIG. 129

130/233

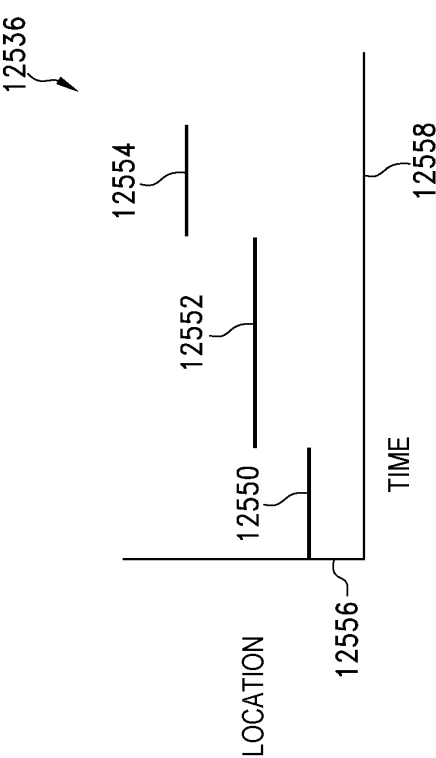


FIG. 130

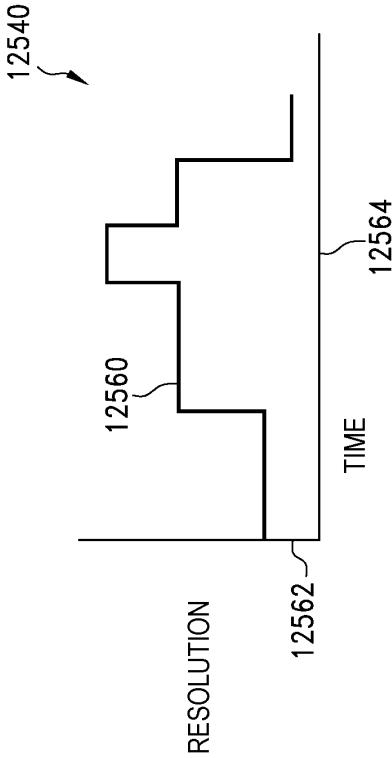


FIG. 131

131/233

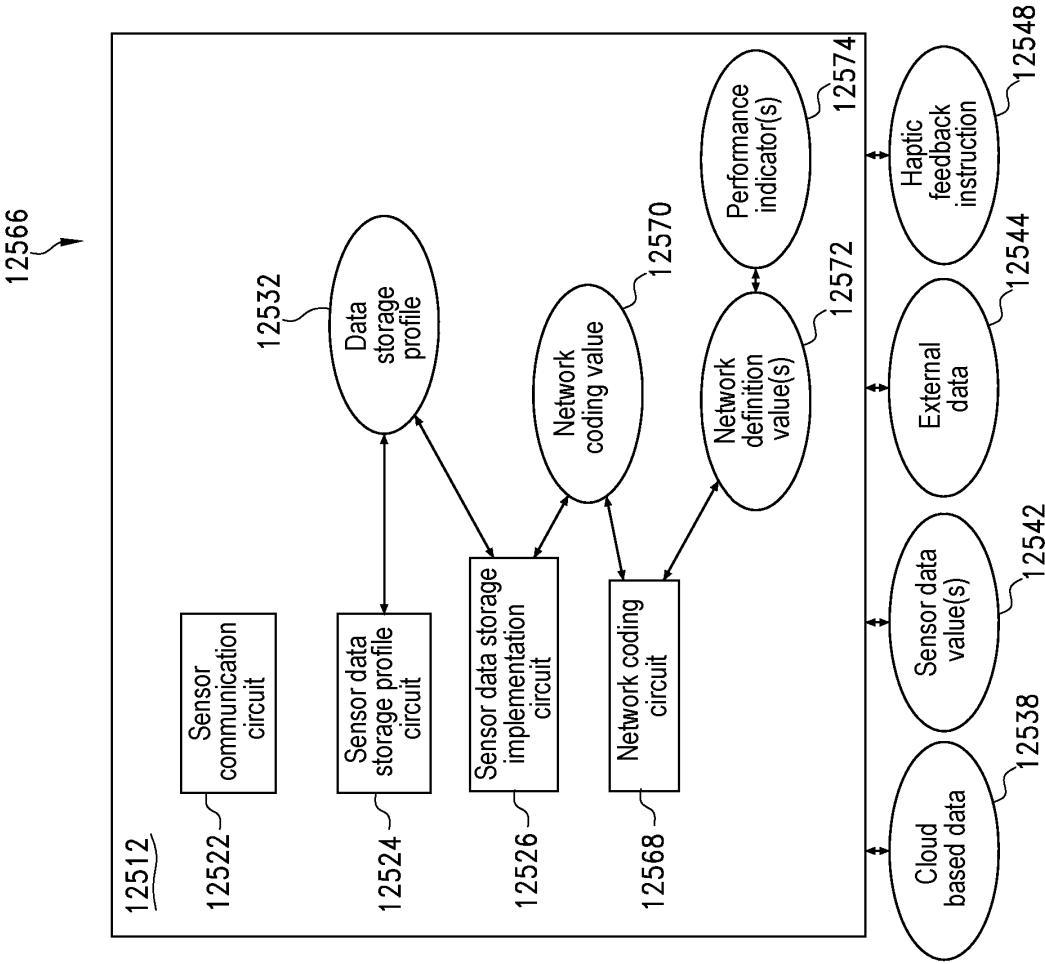


FIG. 132

132/233

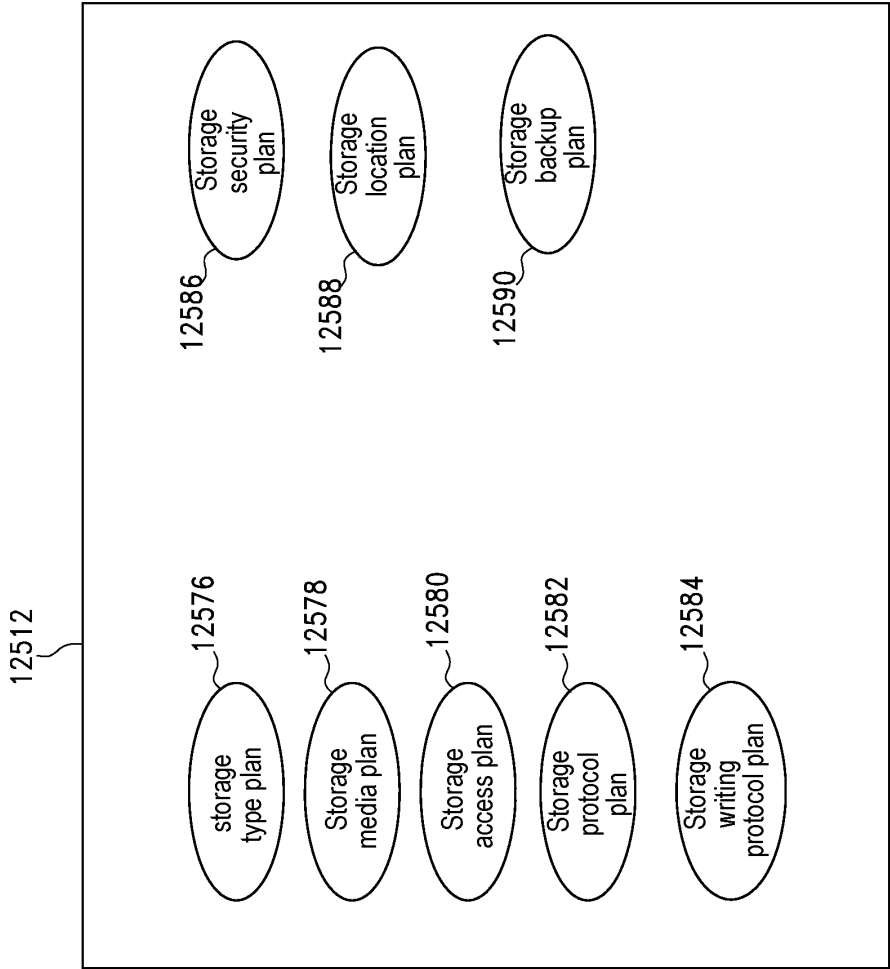


FIG. 133

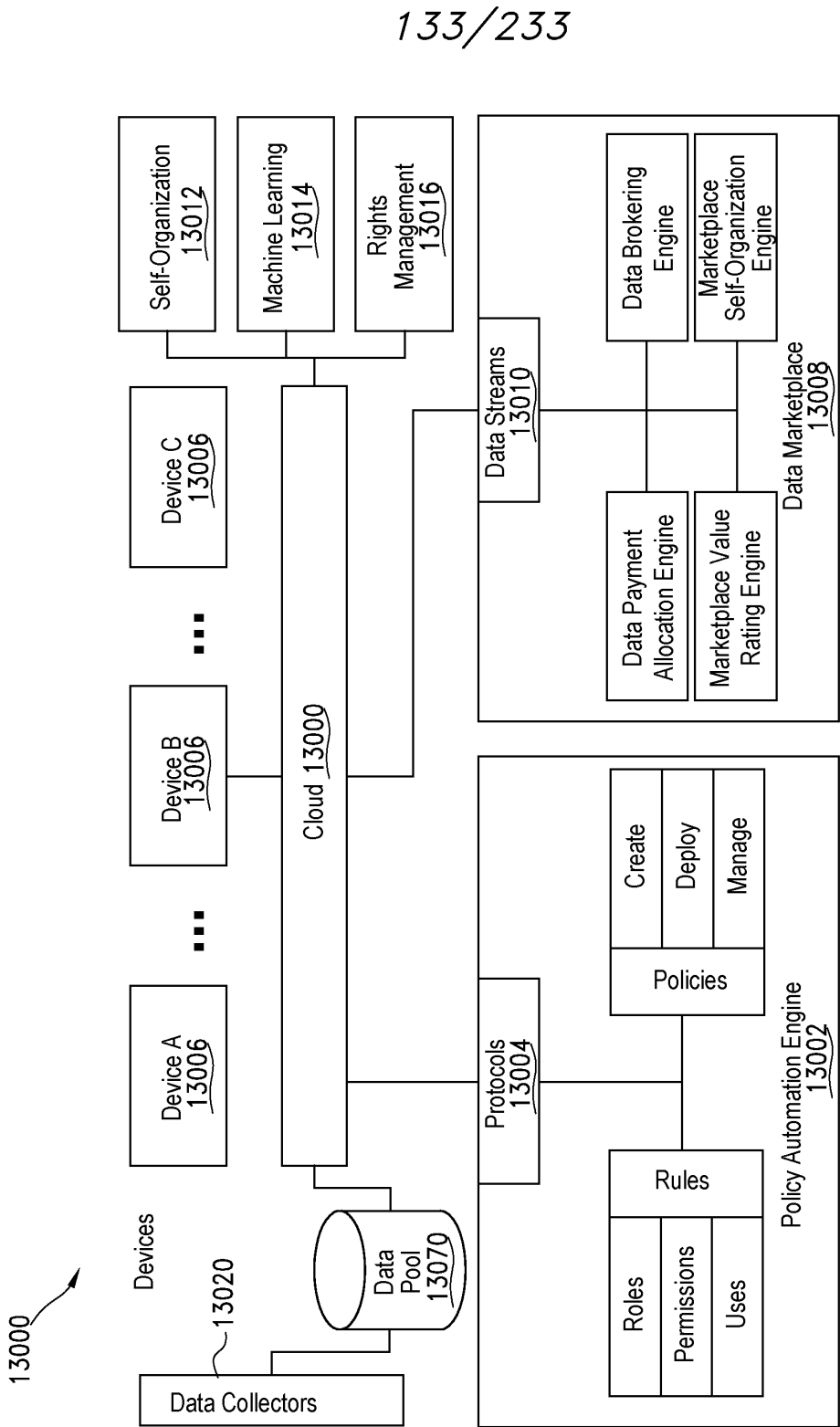


FIG. 134

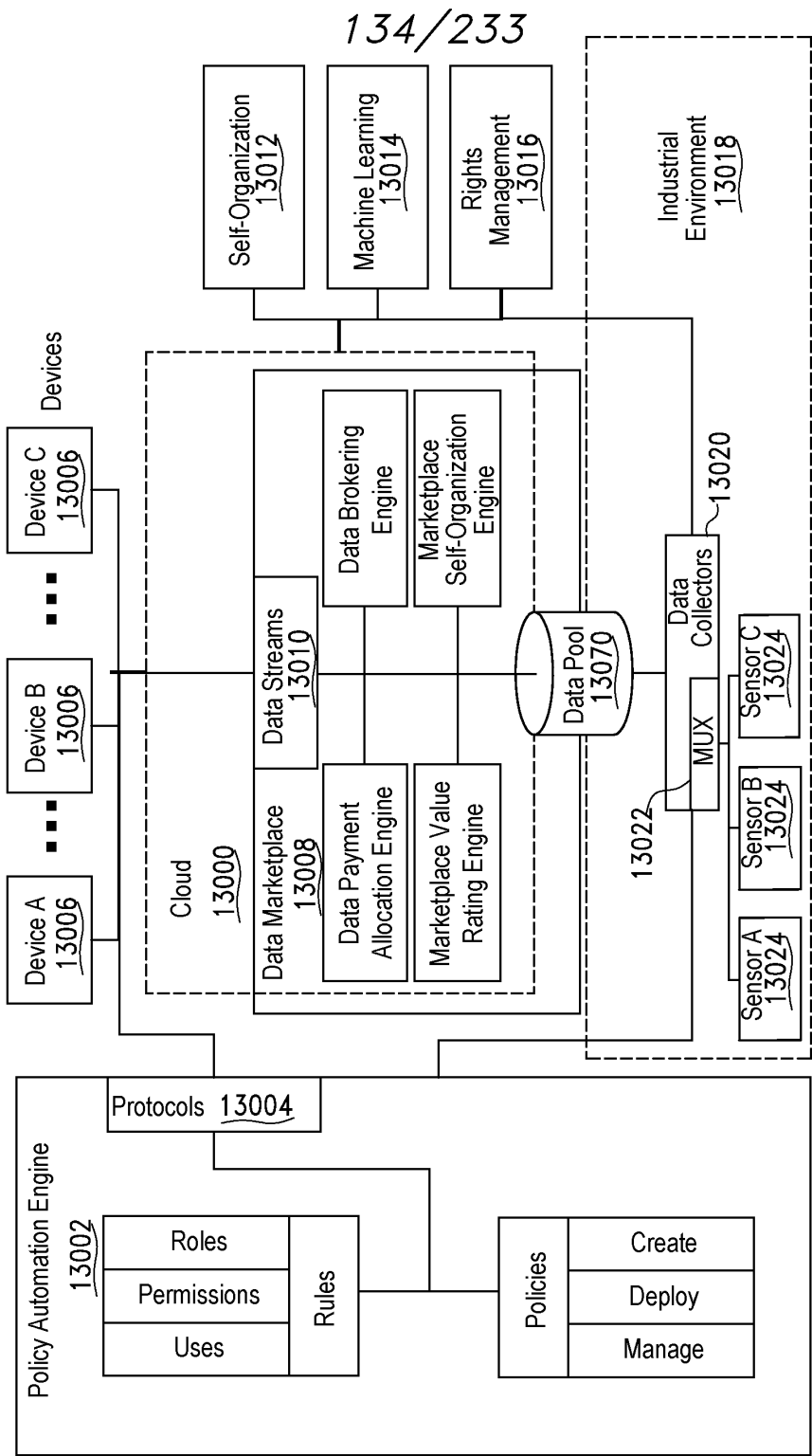


FIG. 135

135/233

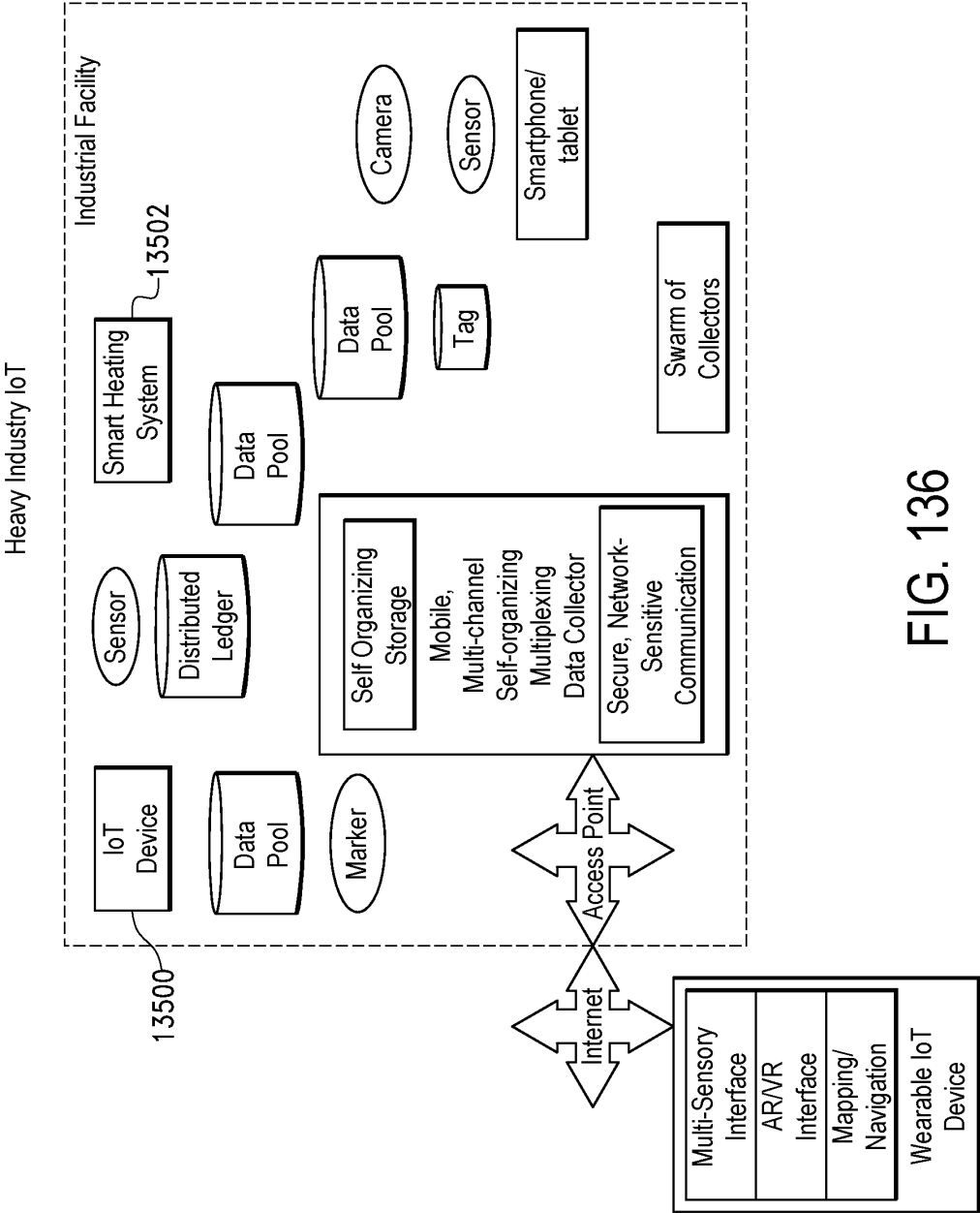


FIG. 136

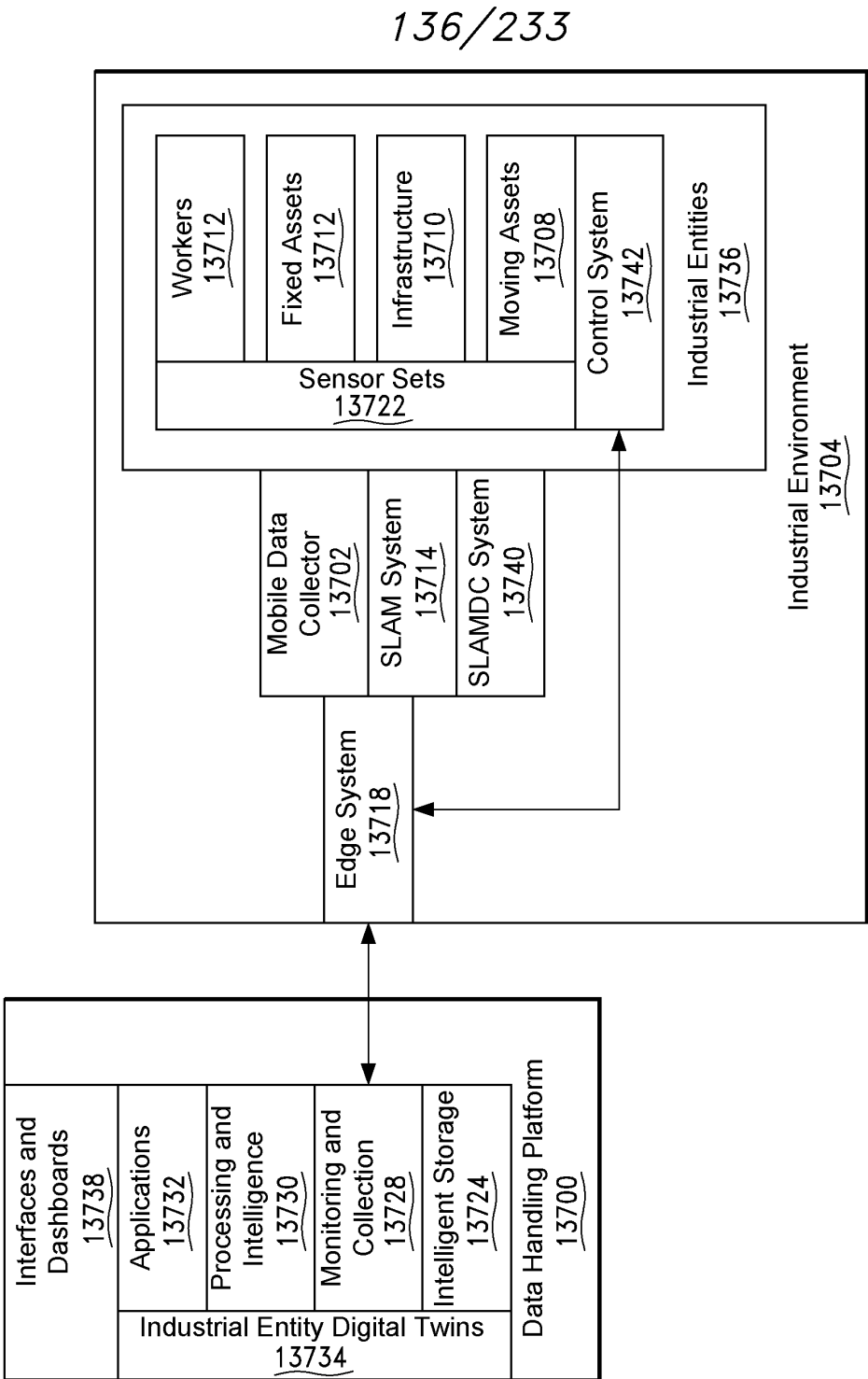


FIG. 137

137/233

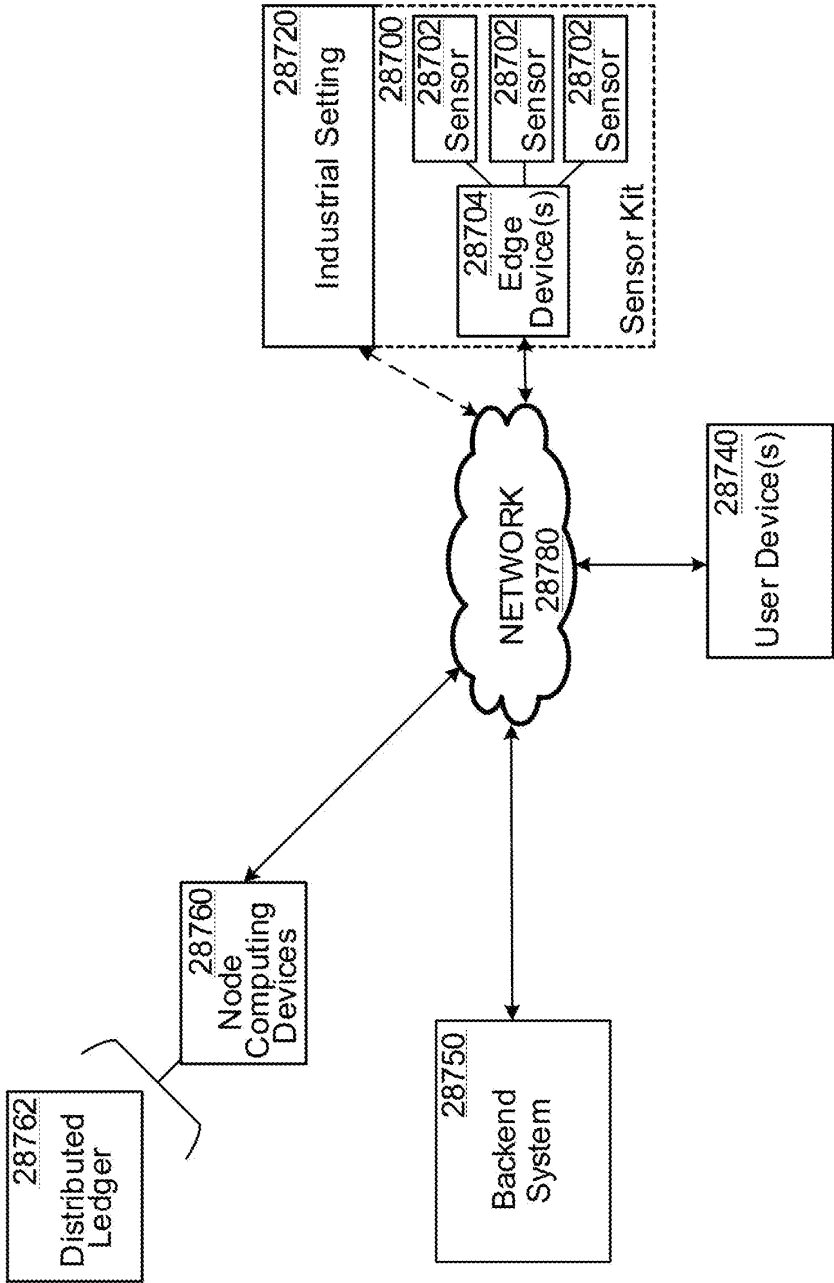


FIG. 138

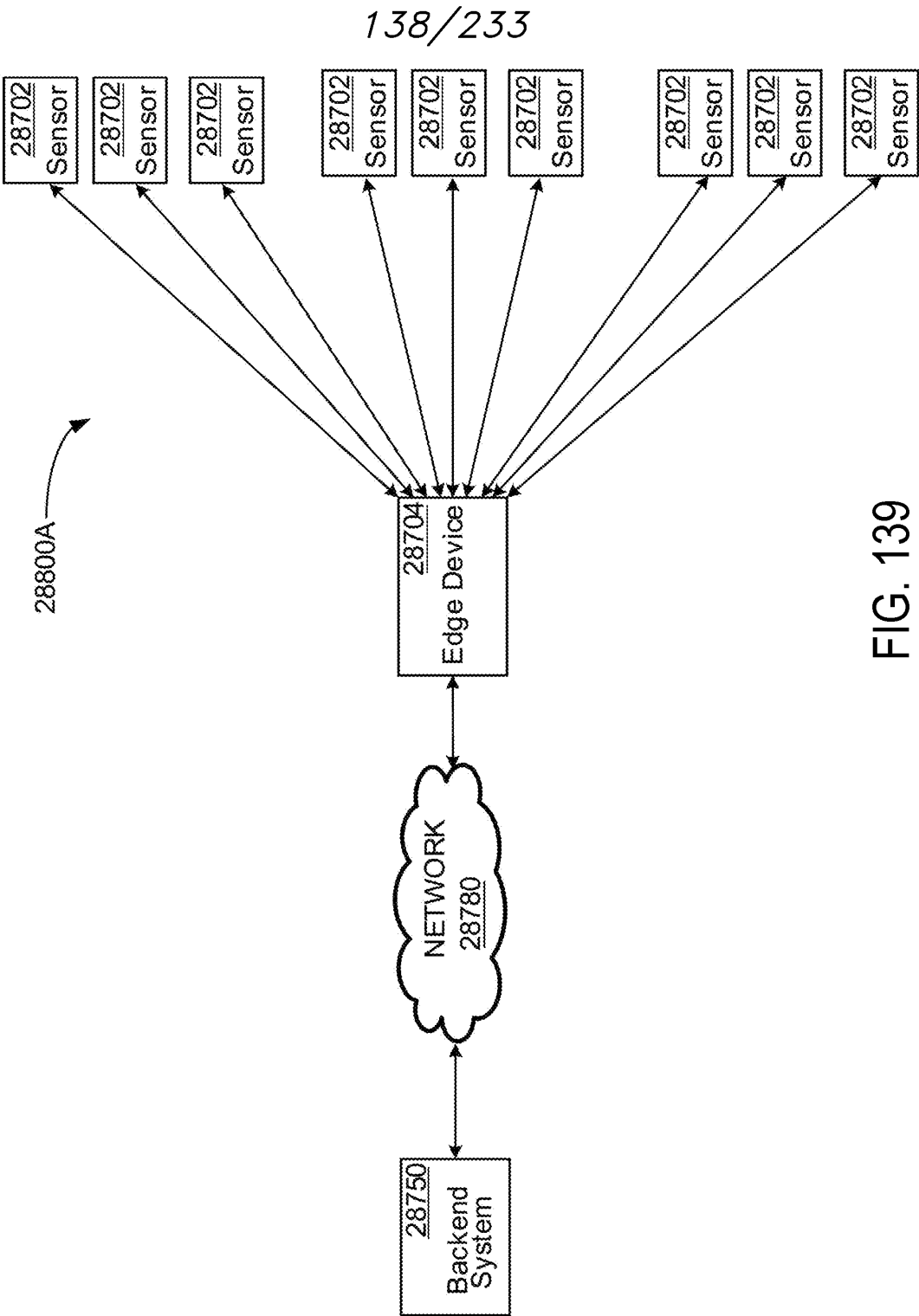
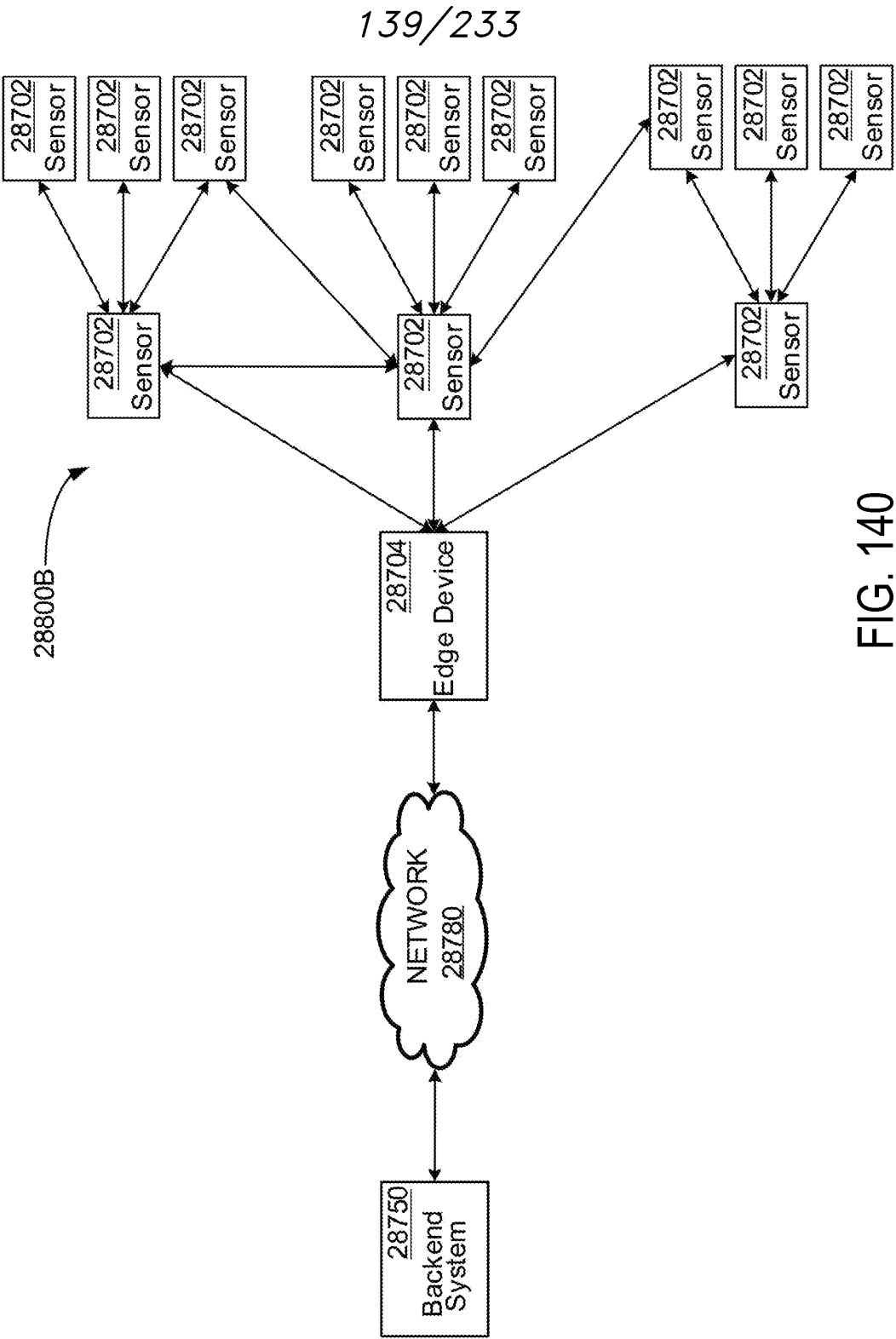


FIG. 139



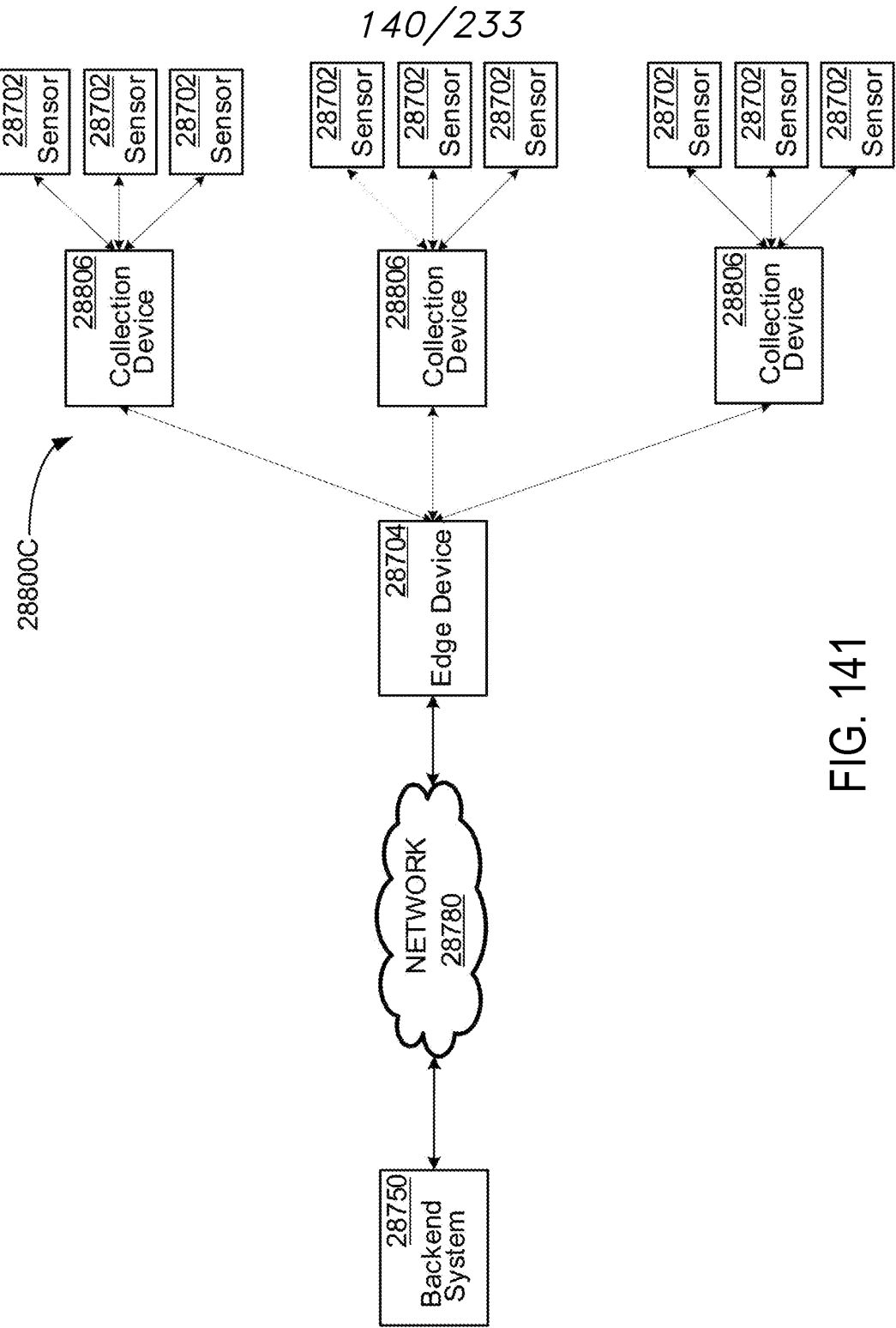


FIG. 141

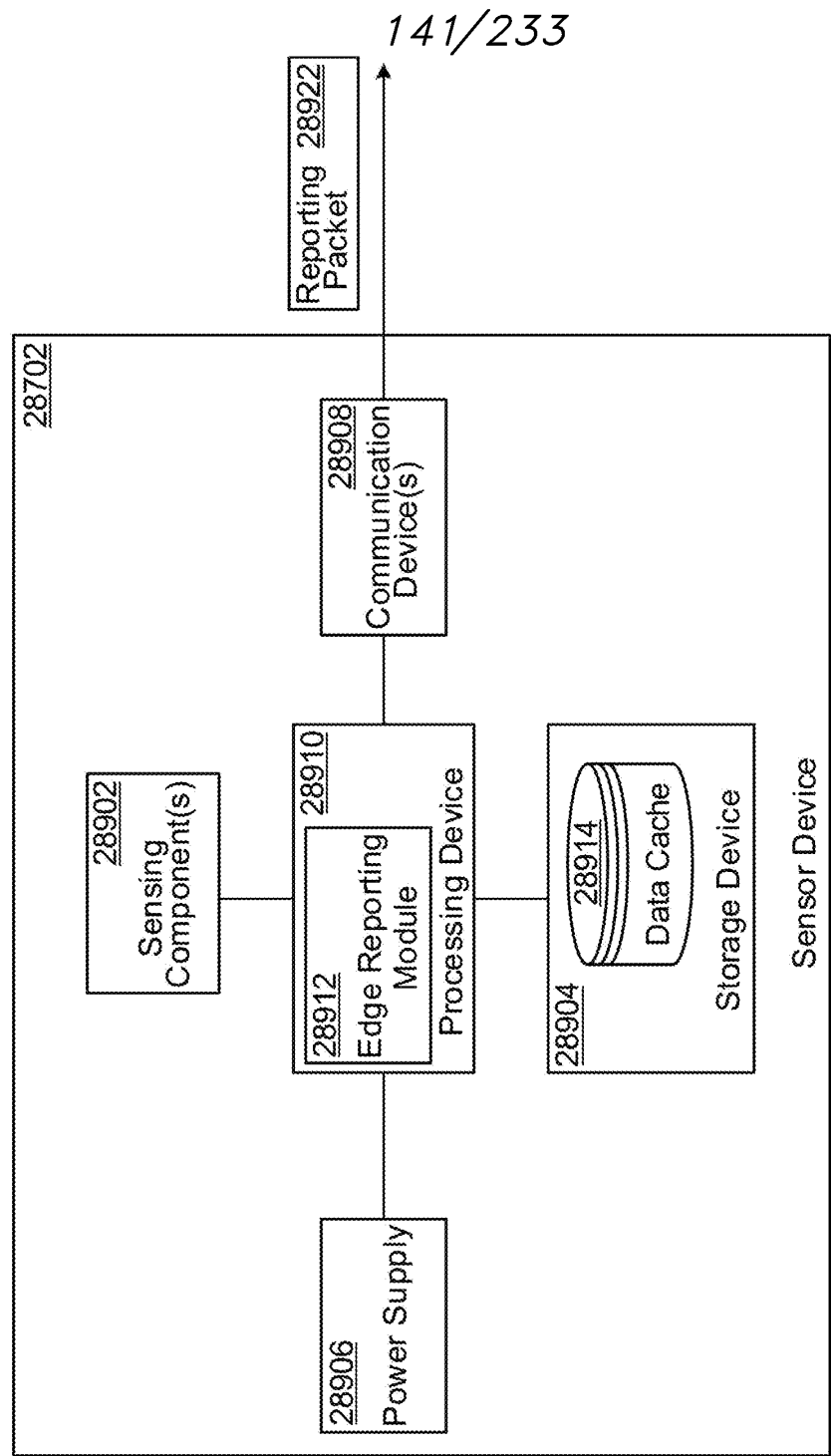


FIG. 142

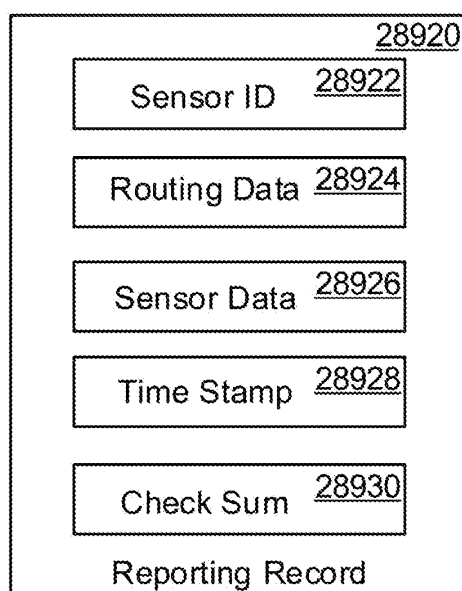
142/233

FIG. 143

143/233

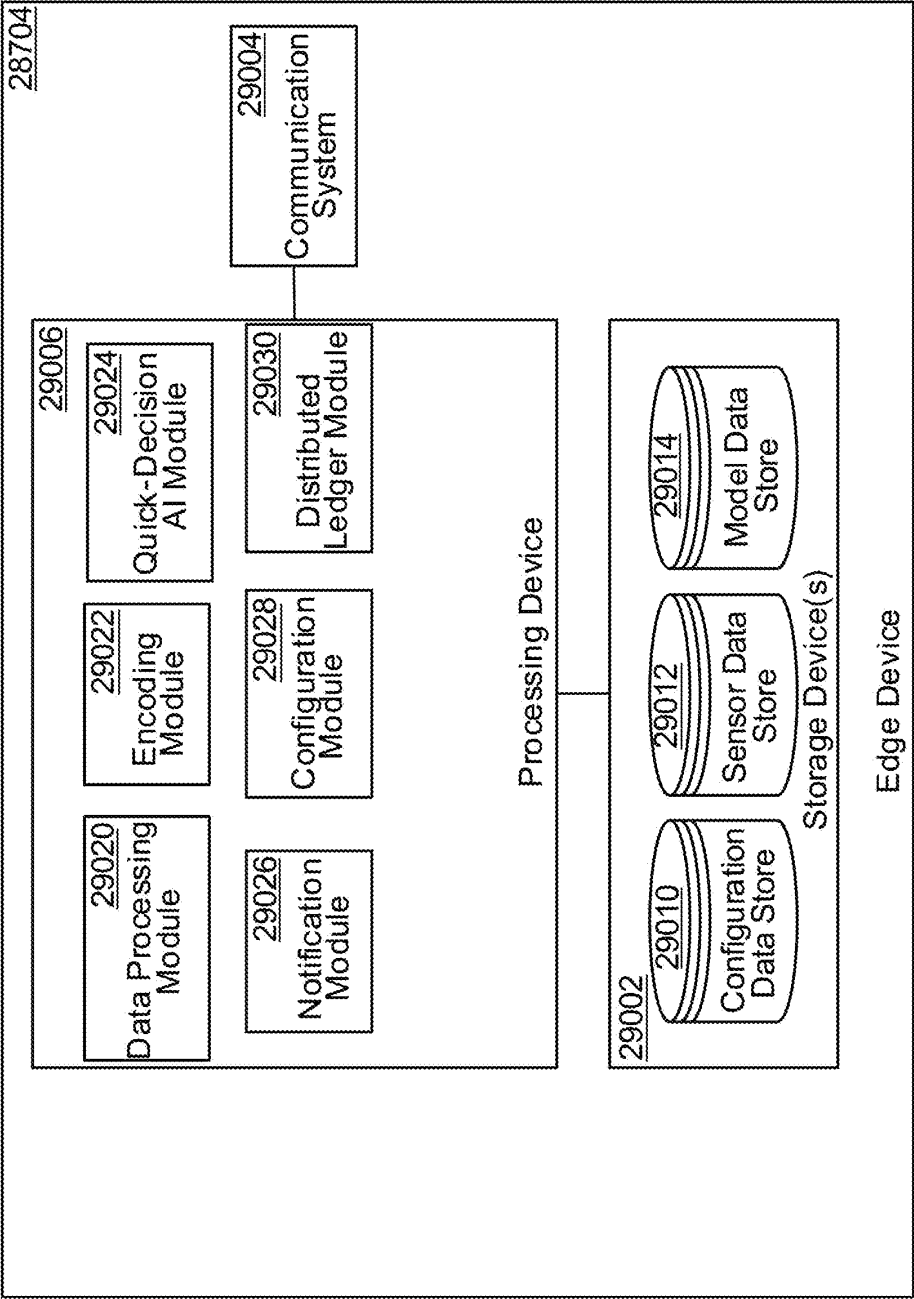


FIG. 144

144/233

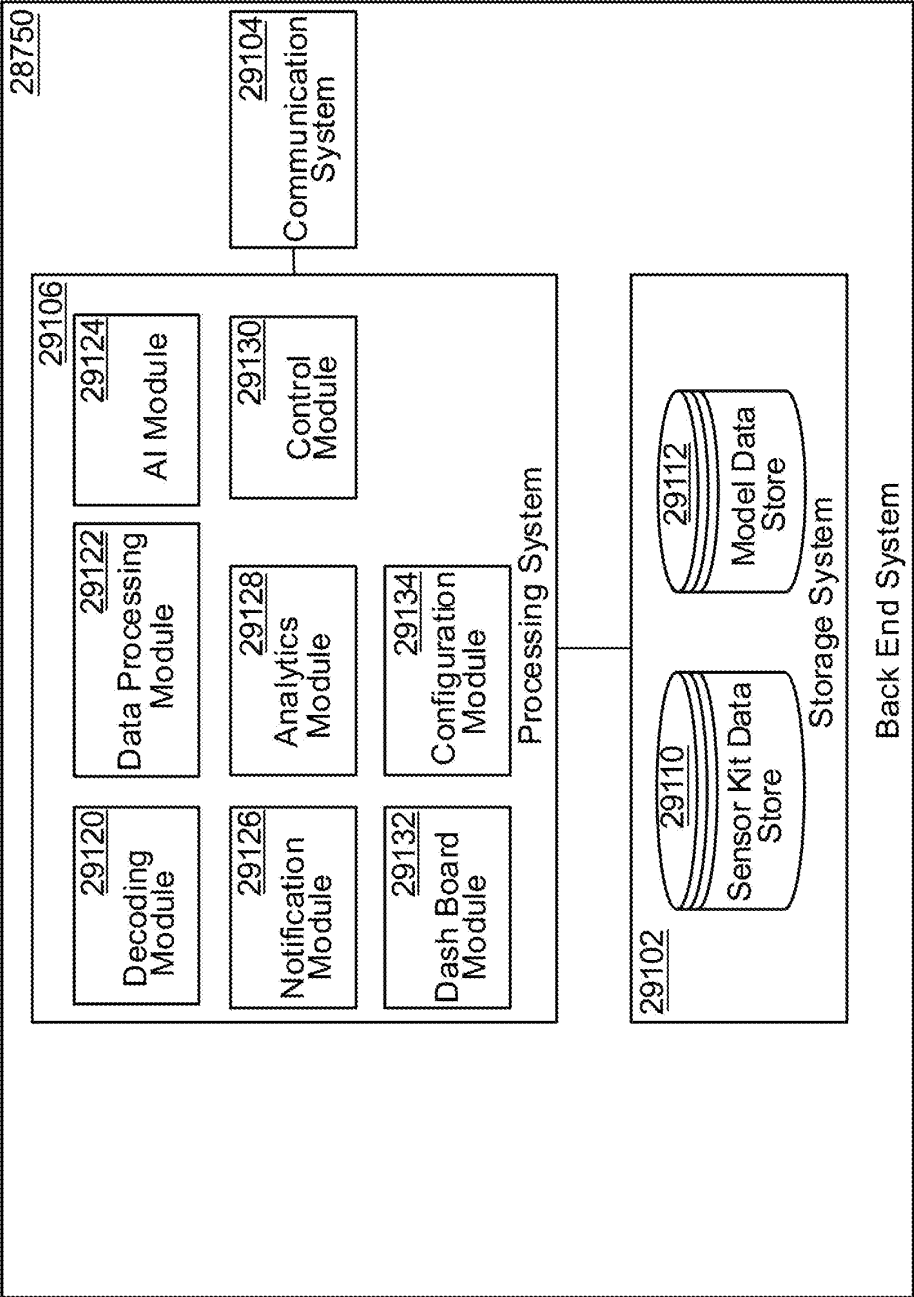


FIG. 145

145/233

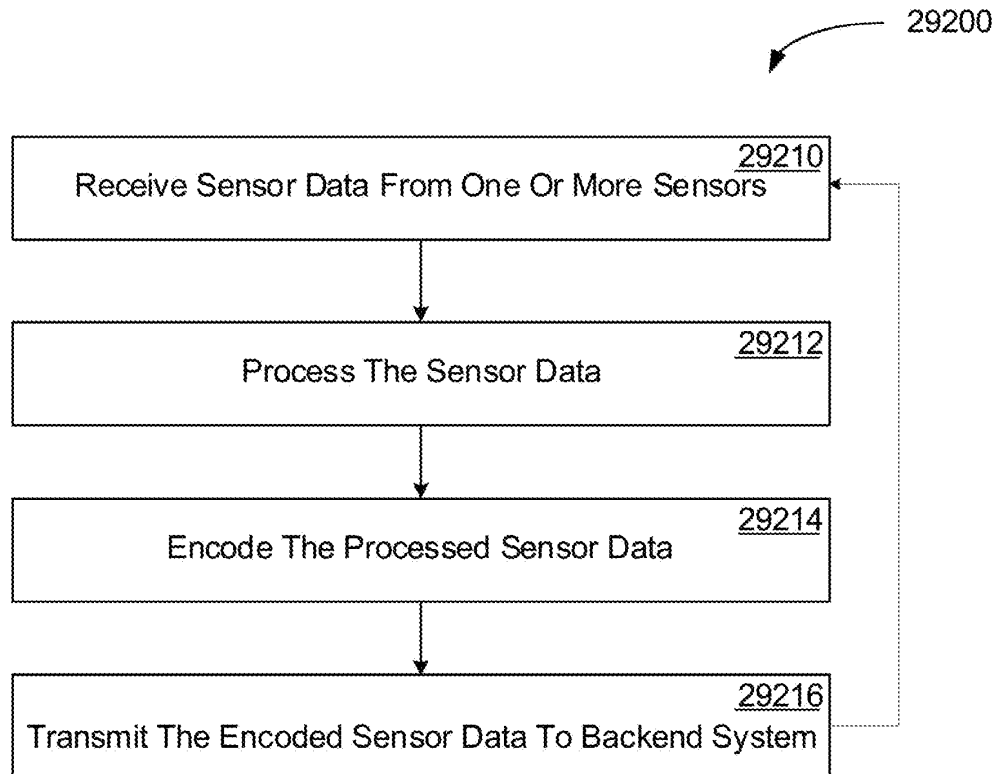


FIG. 146

146/233

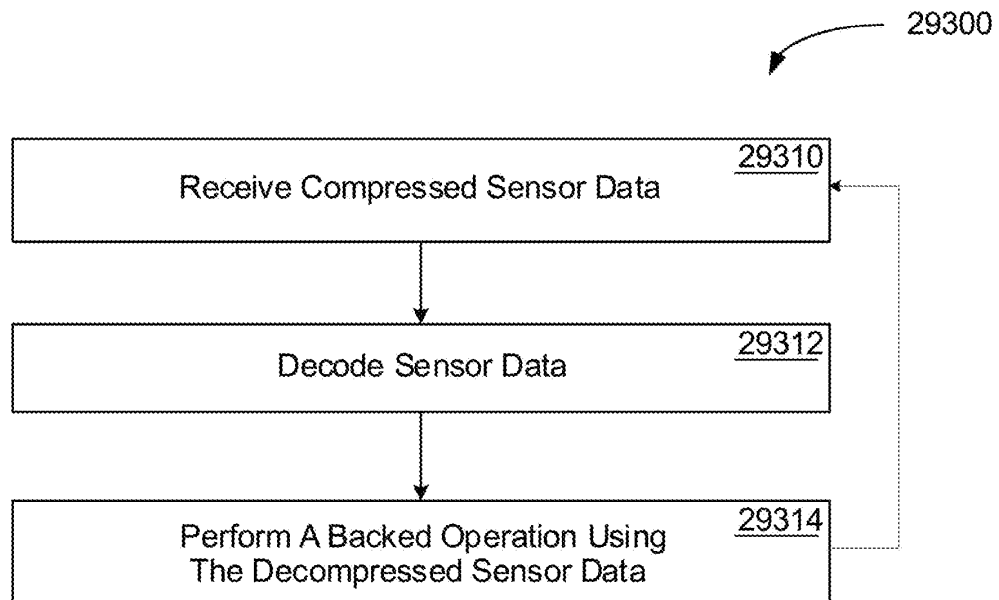


FIG. 147

147/233

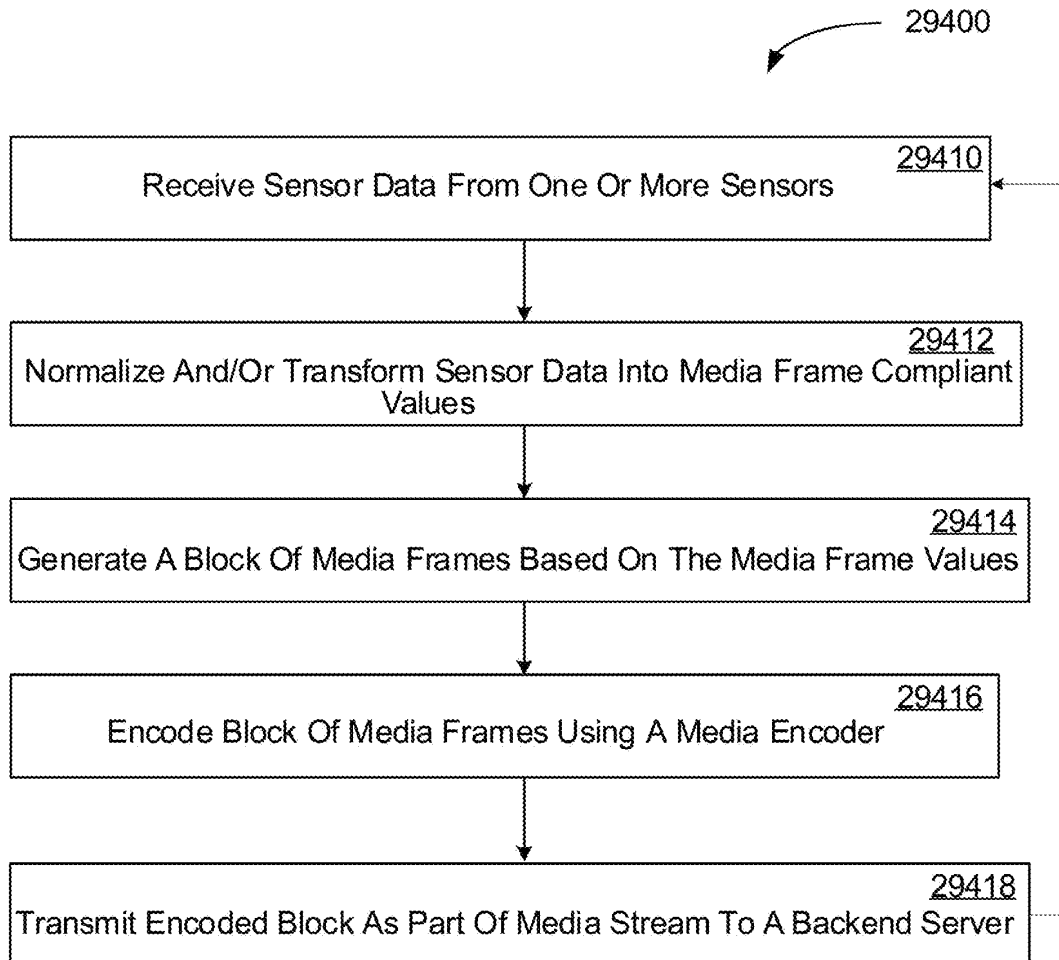


FIG. 148

148/233

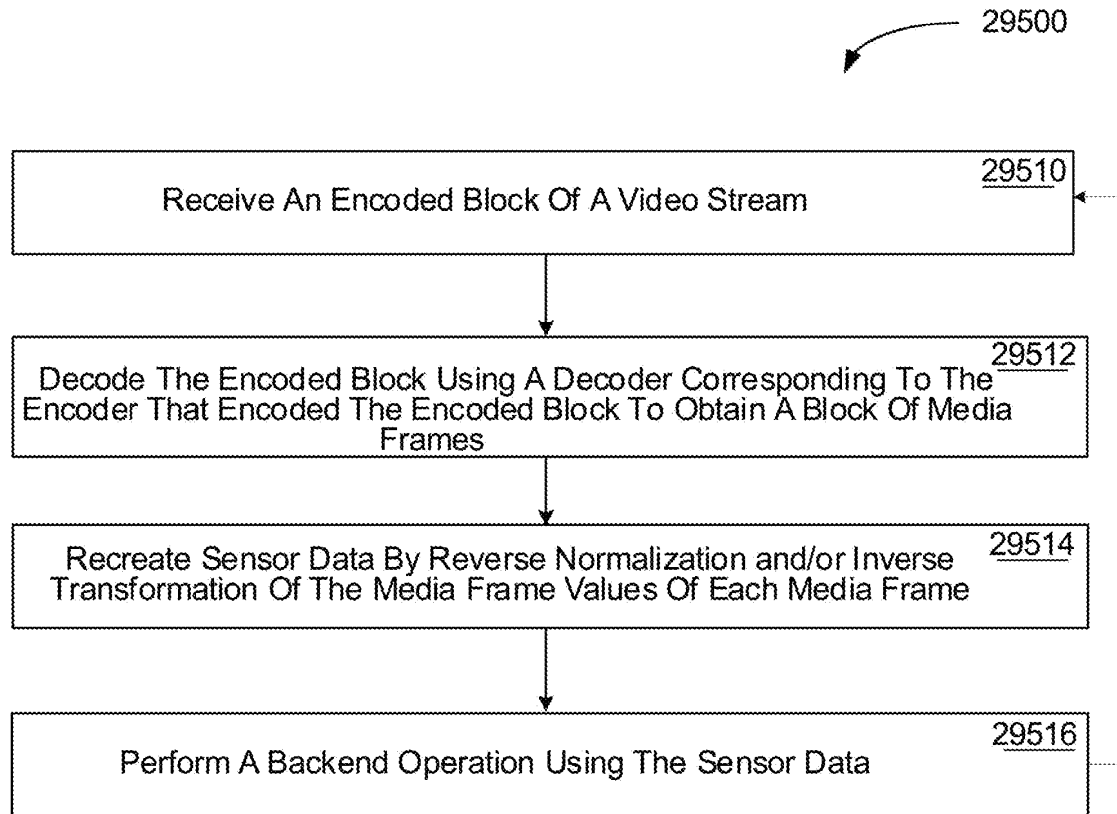


FIG. 149

149/233

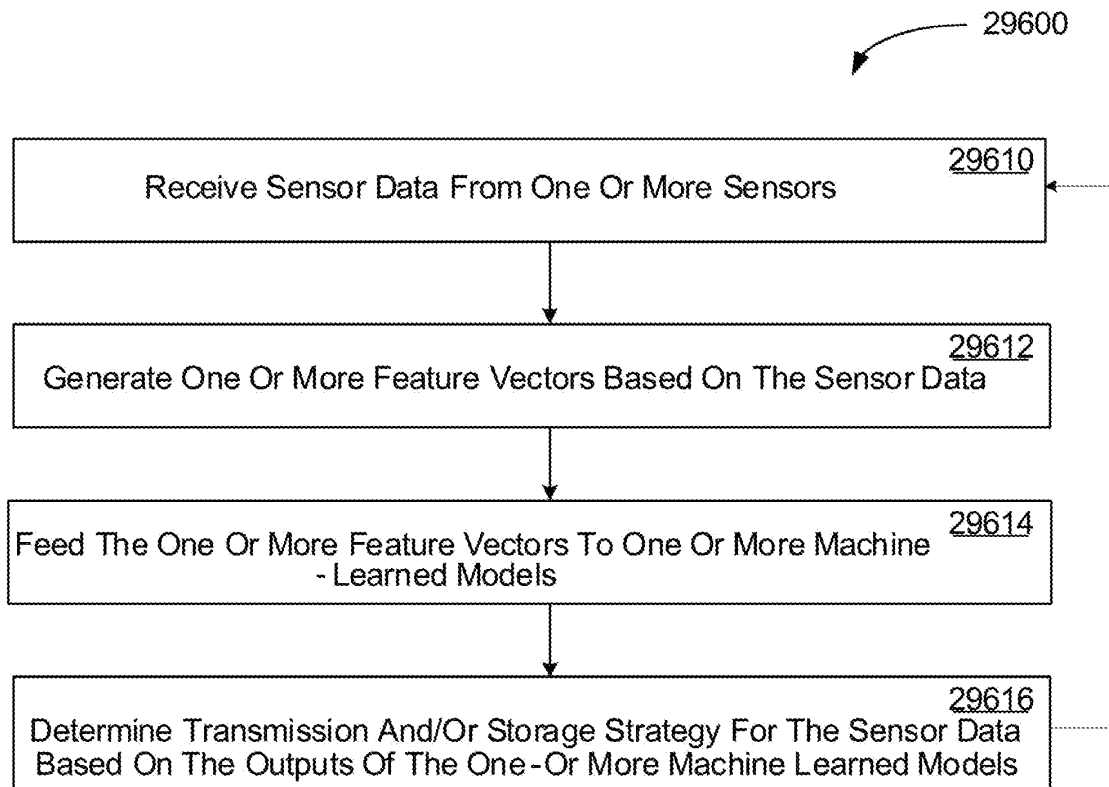


FIG. 150

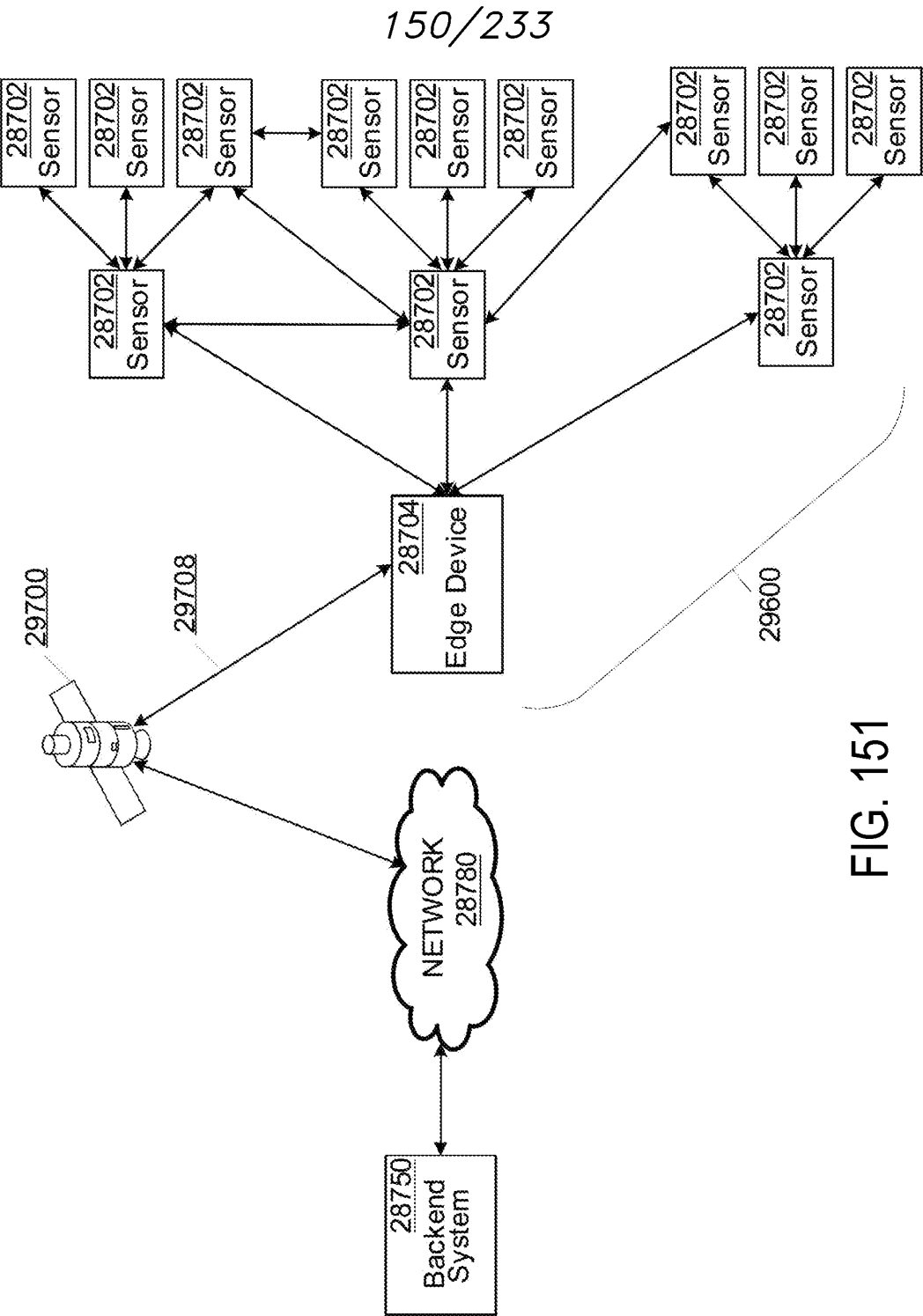


FIG. 151

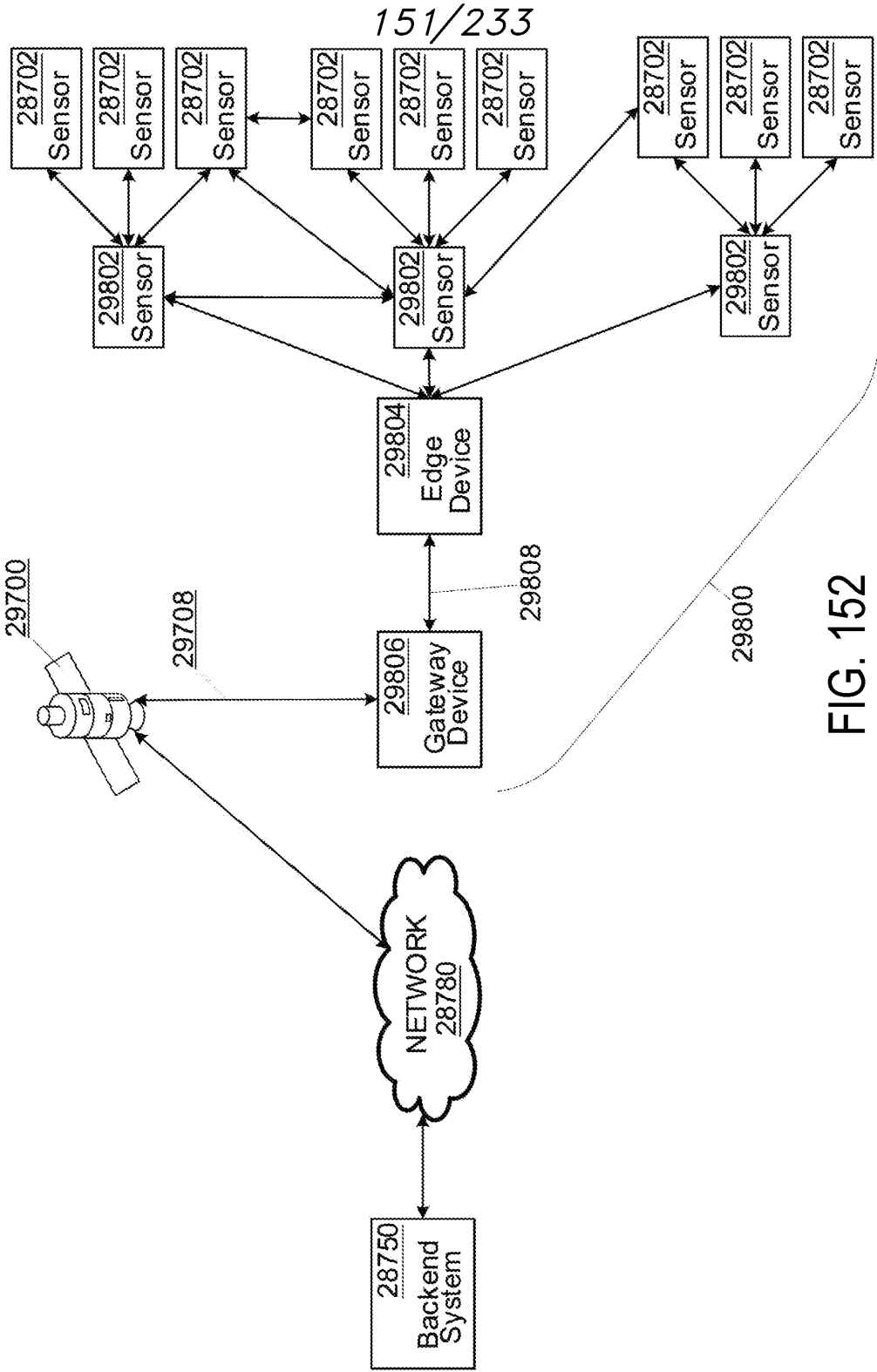


FIG. 152

152/233

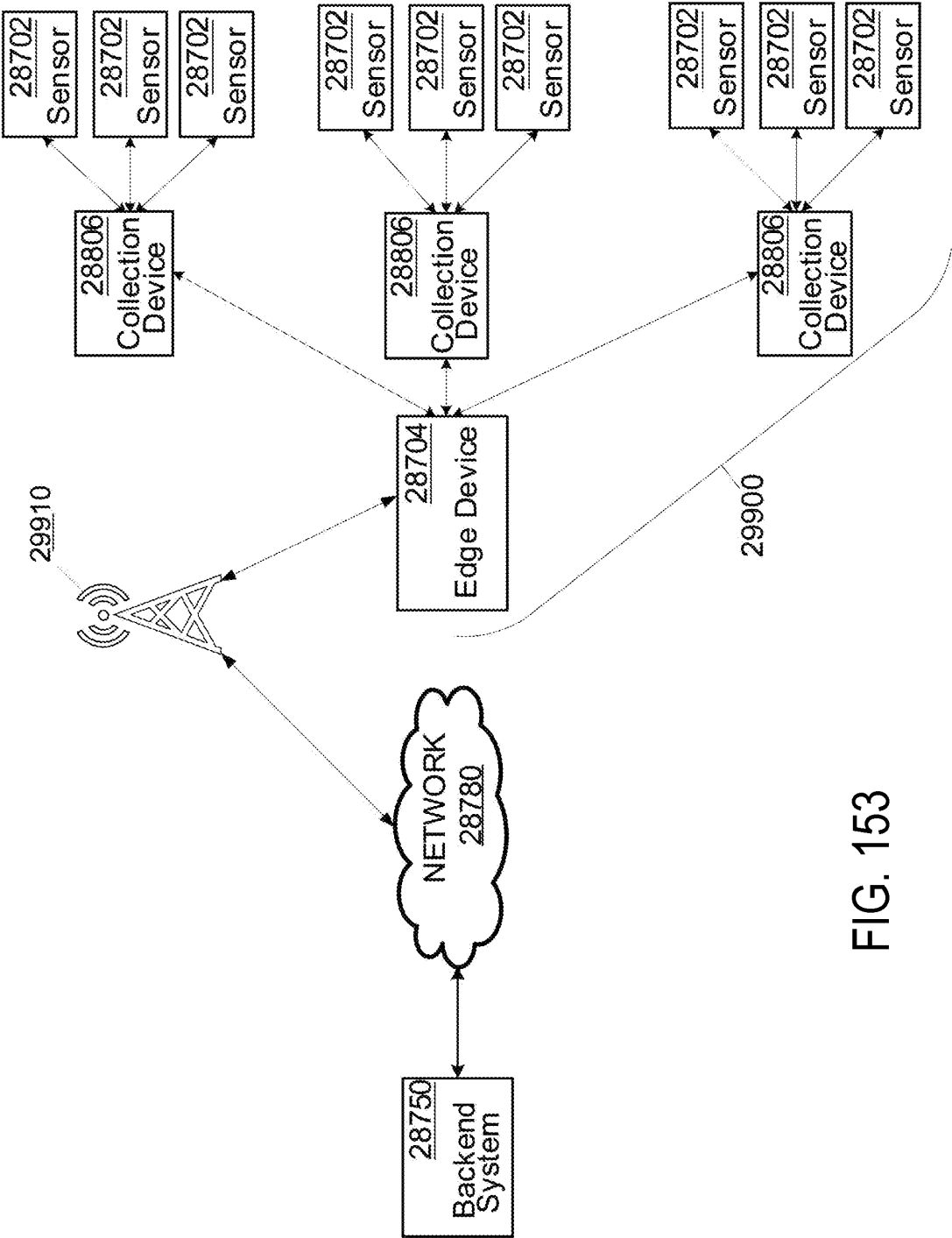


FIG. 153

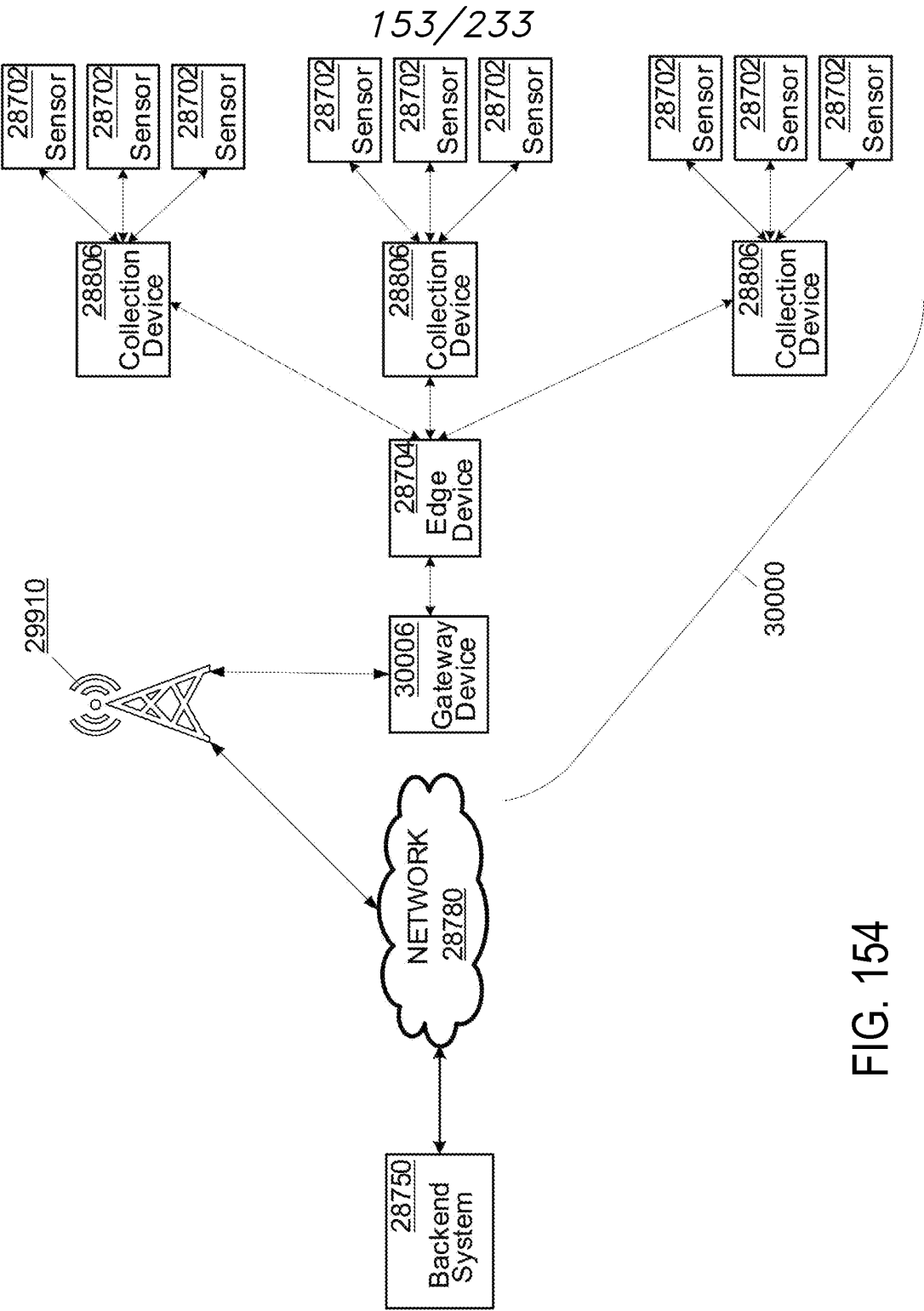


FIG. 154

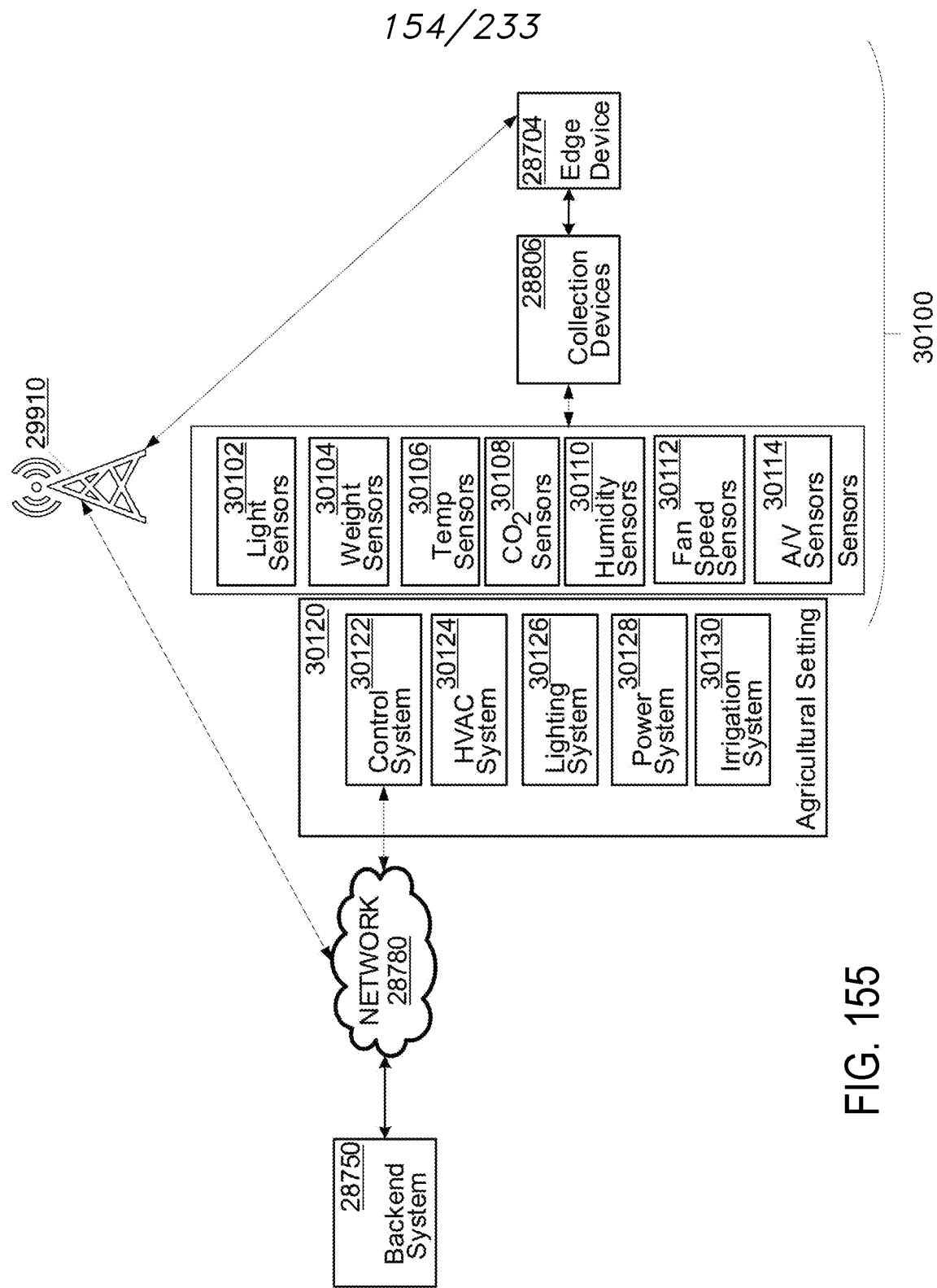


FIG. 155

155/233

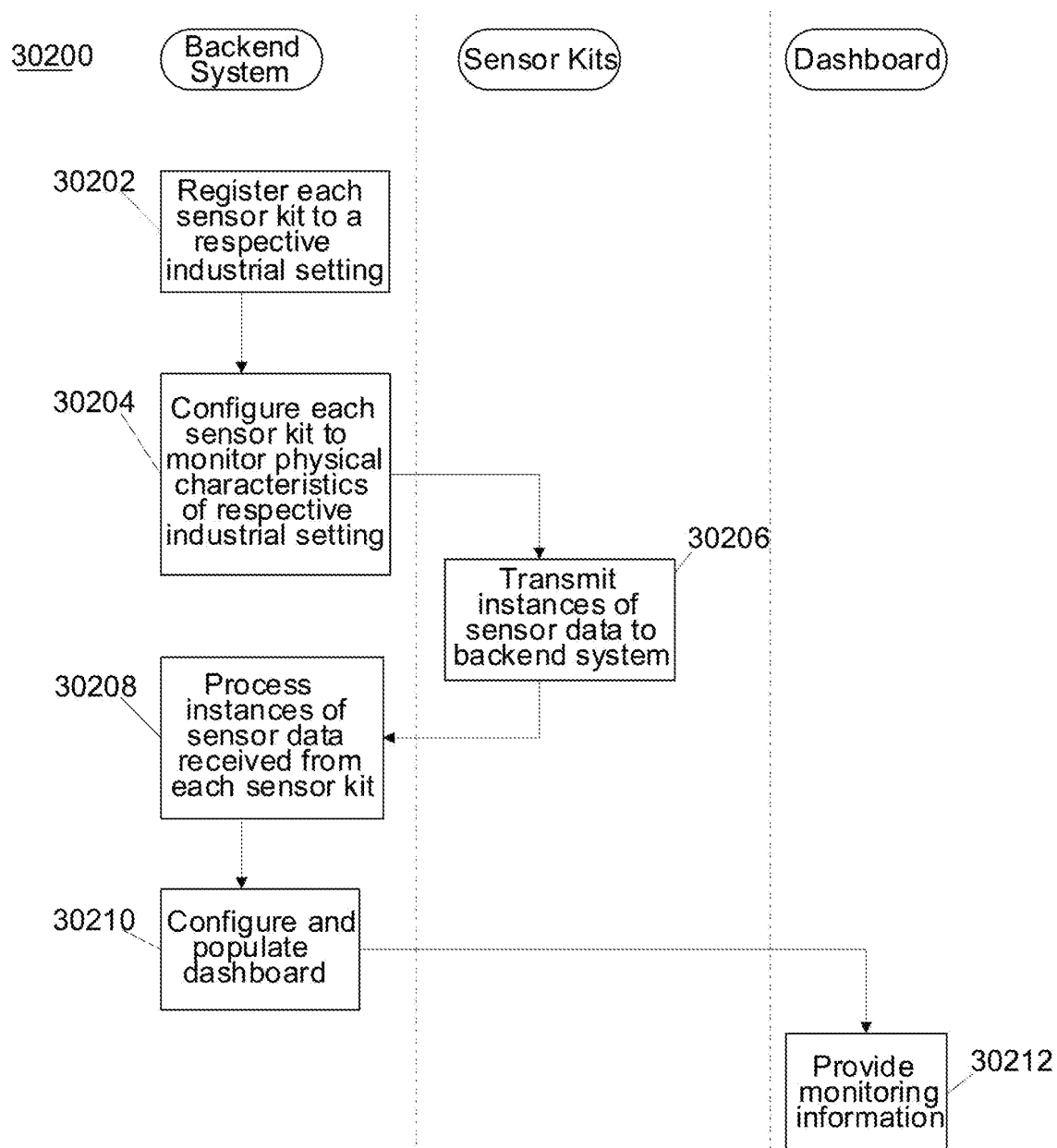


FIG. 156

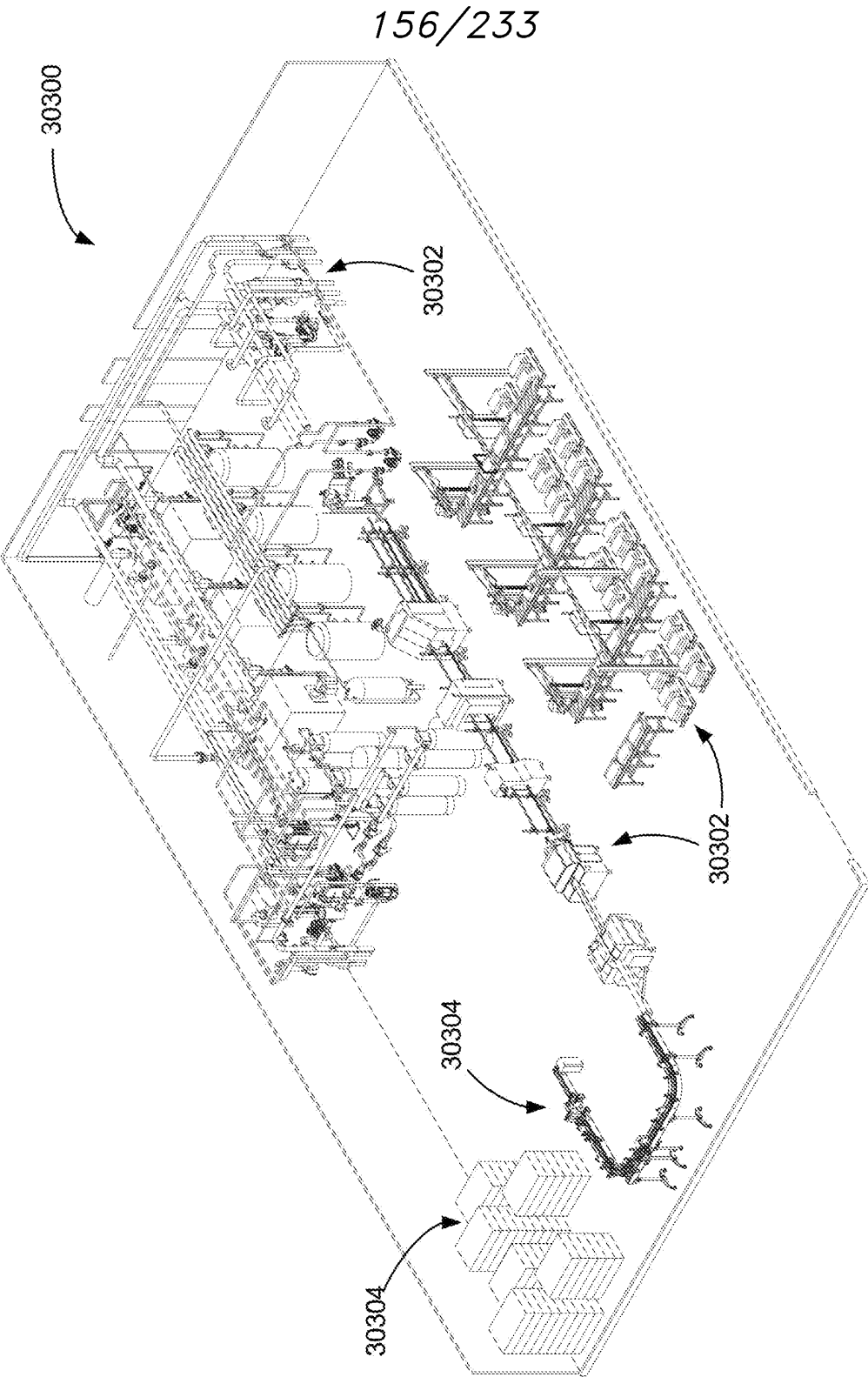


FIG. 157

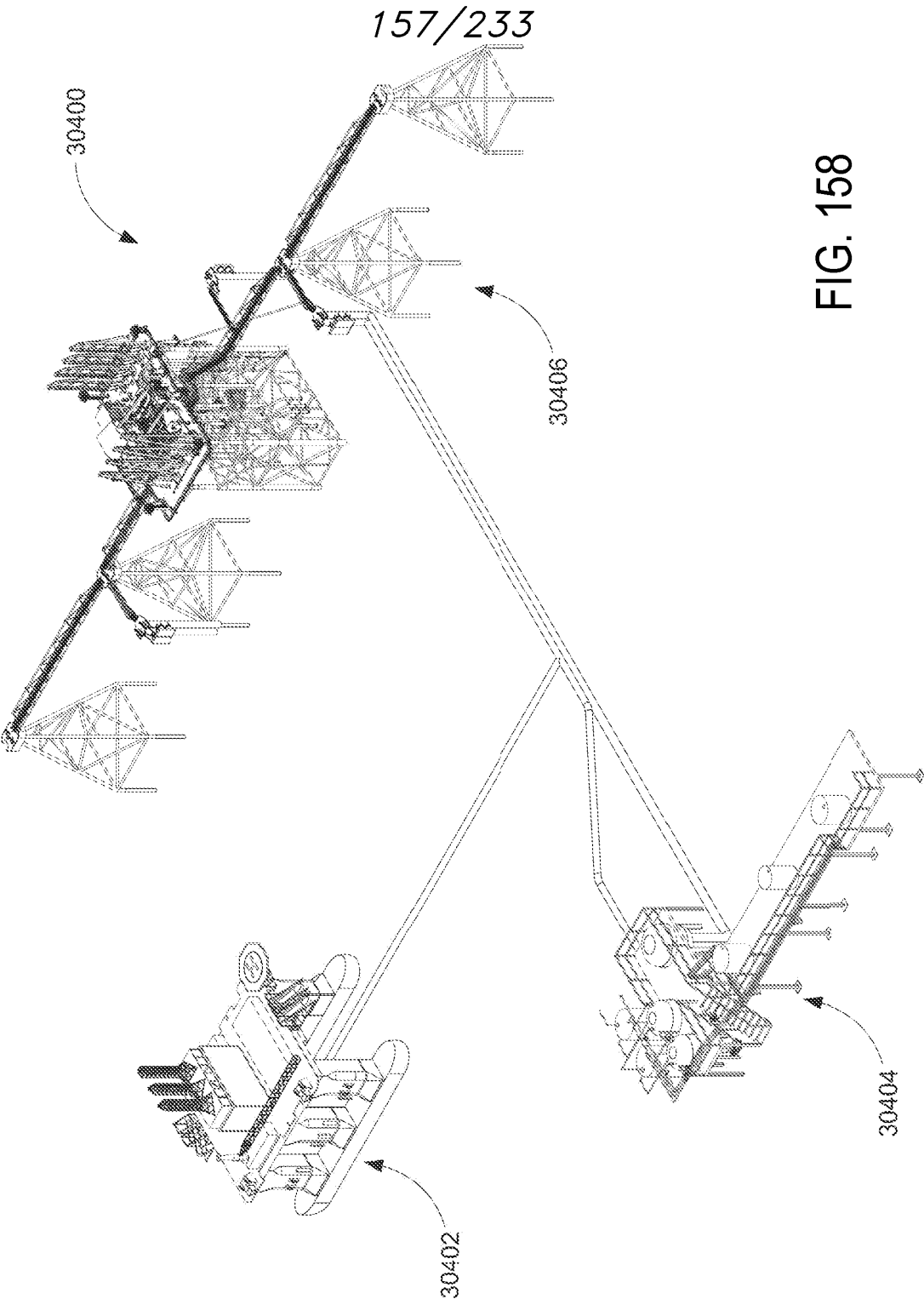


FIG. 158

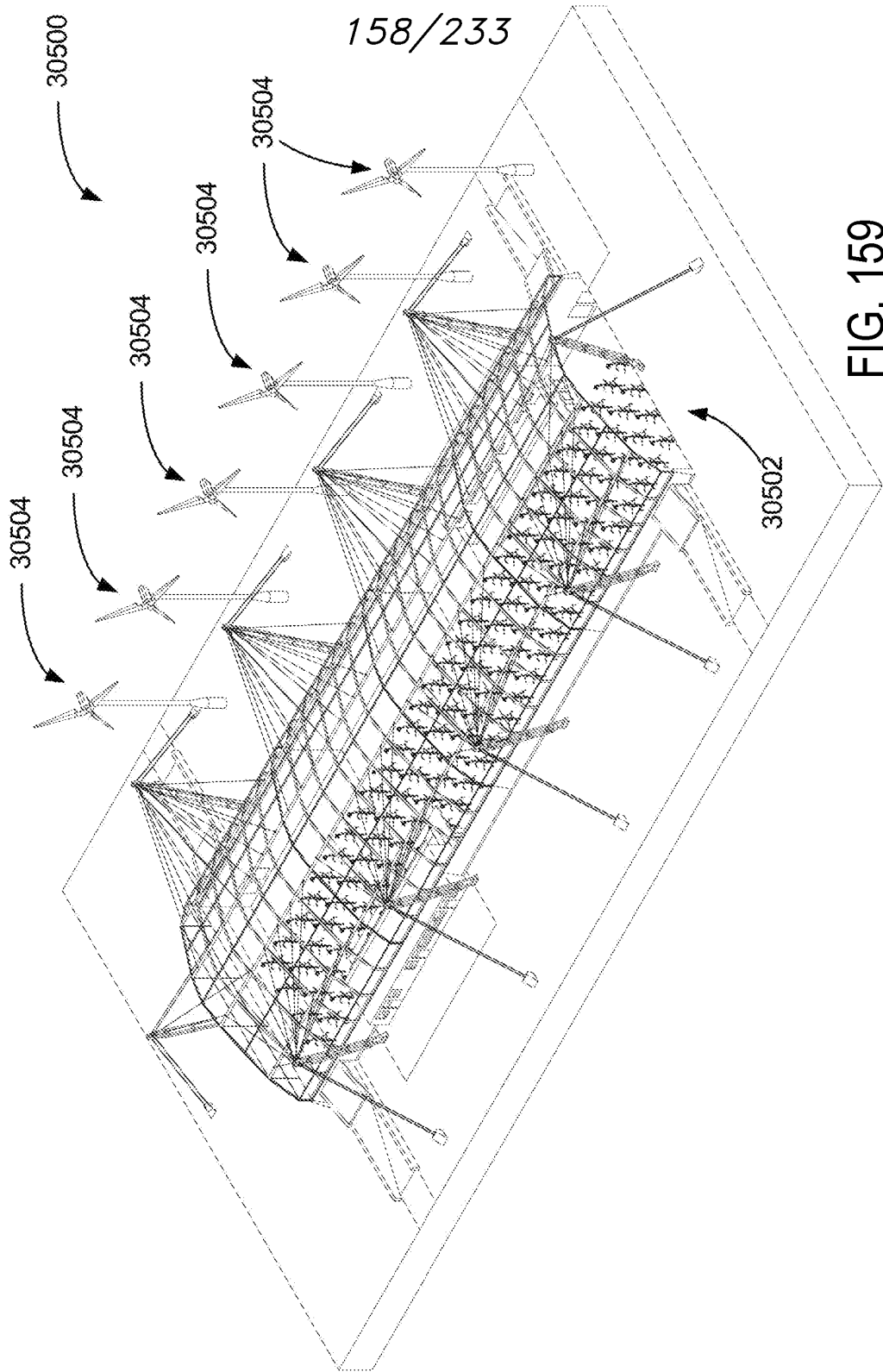


FIG. 159

159/233

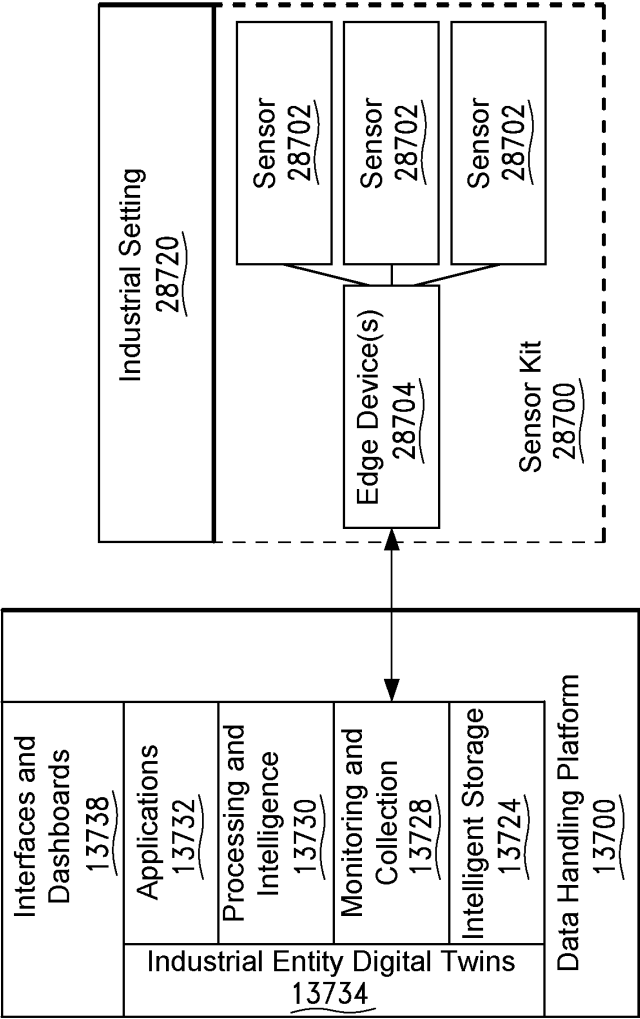


FIG. 160

160/233

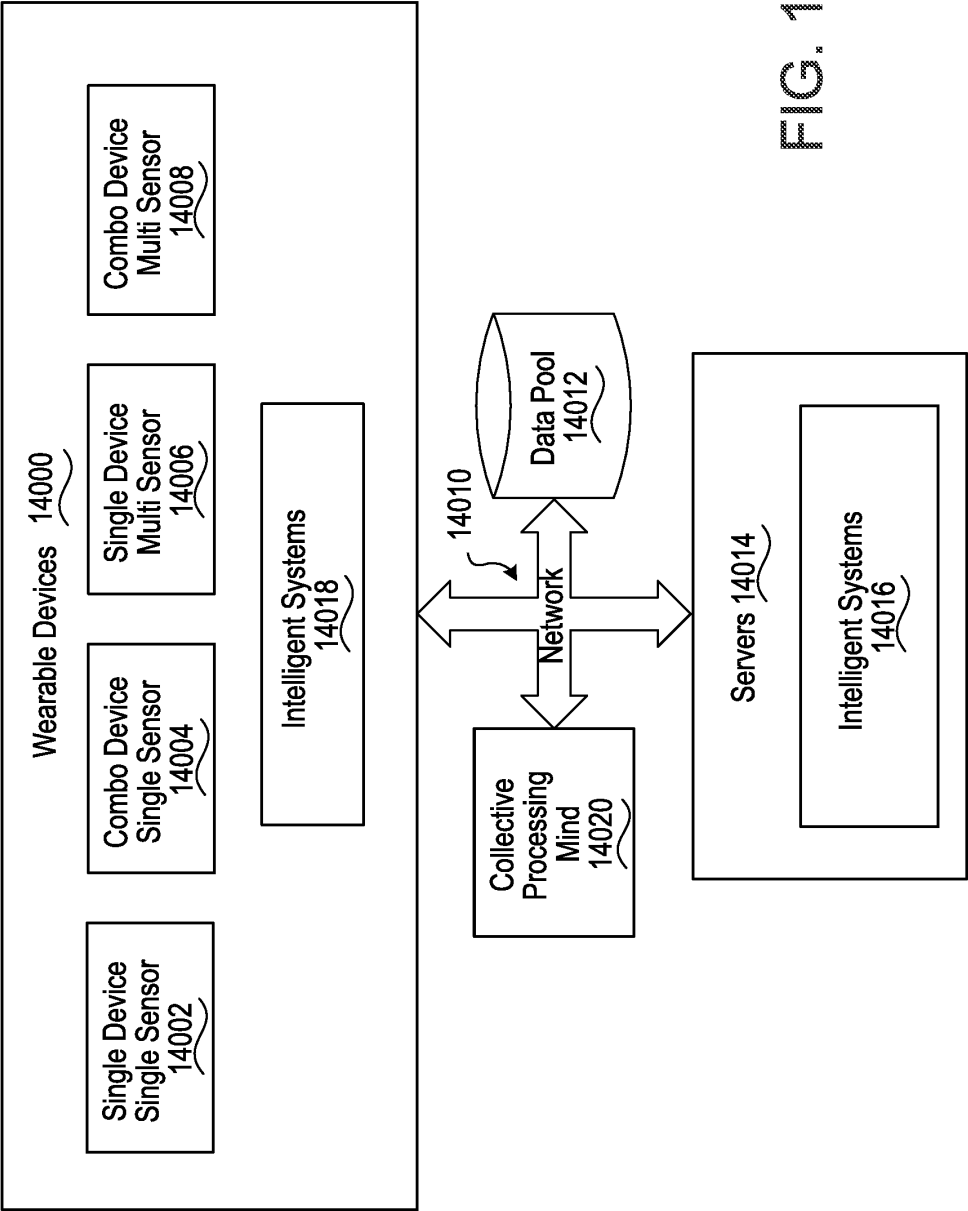


FIG. 161

161/233

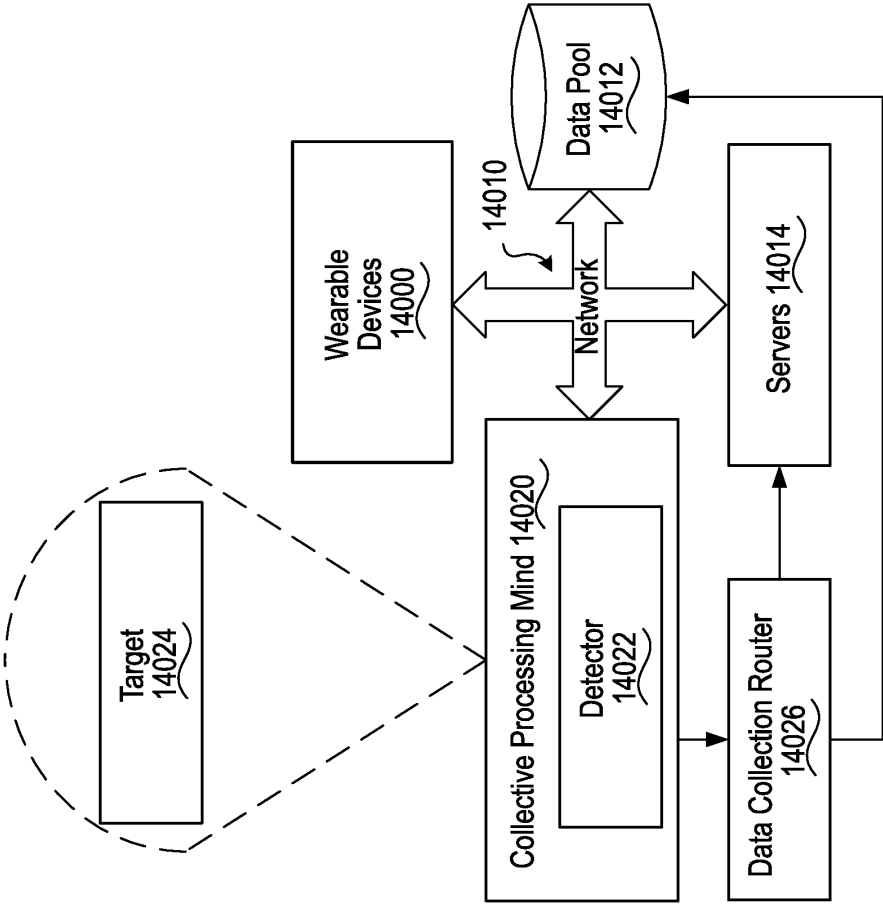


FIG. 162

162/233

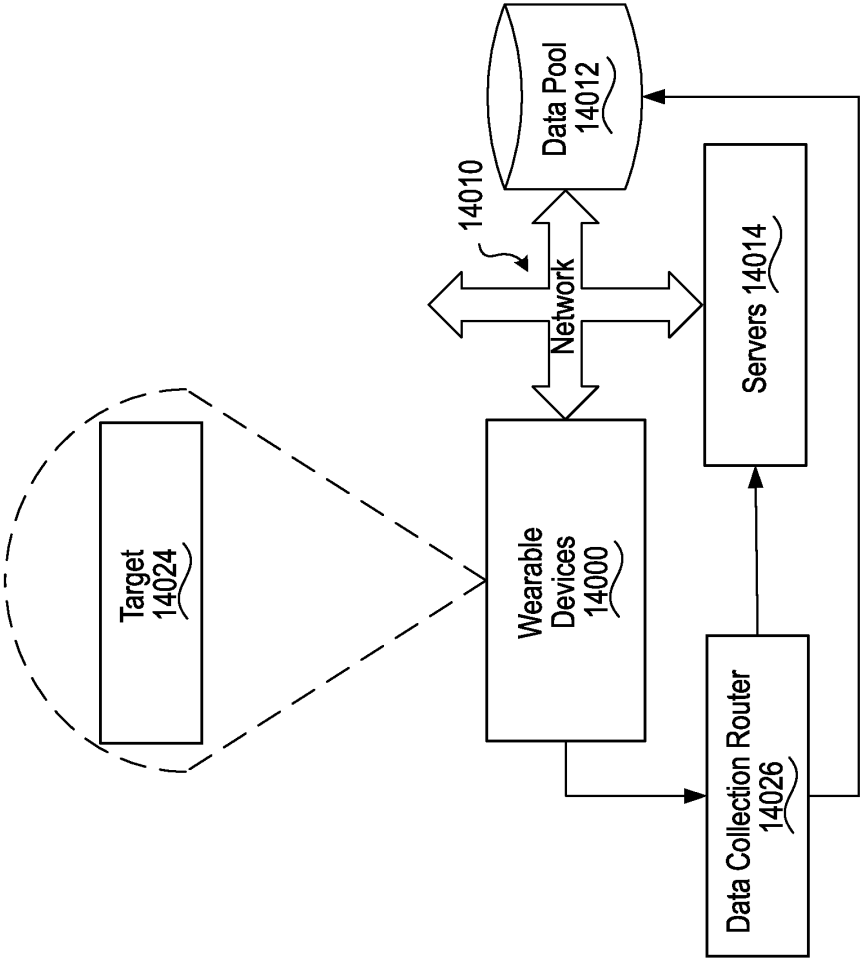


FIG. 163

163/233

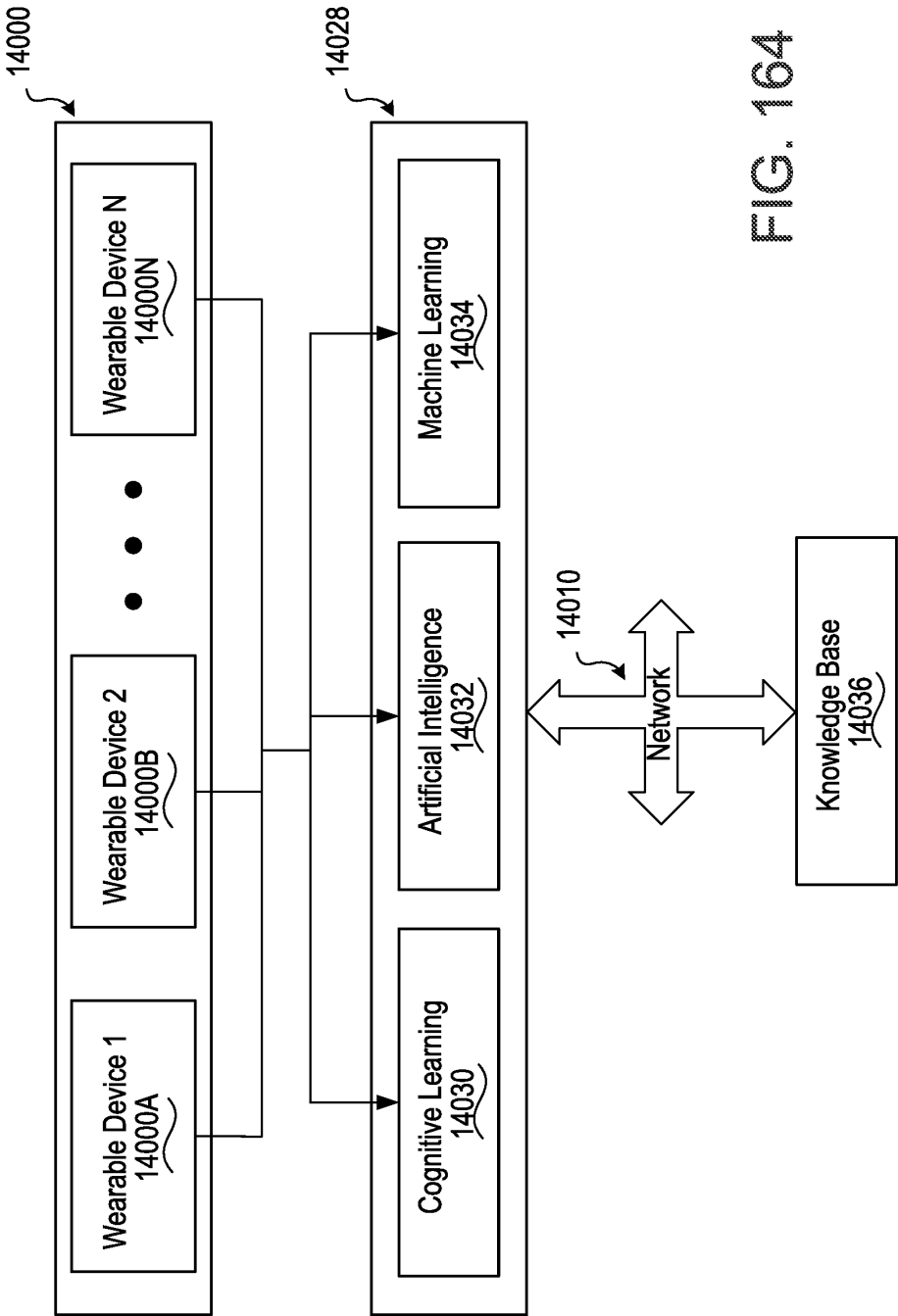


FIG. 164

164/233

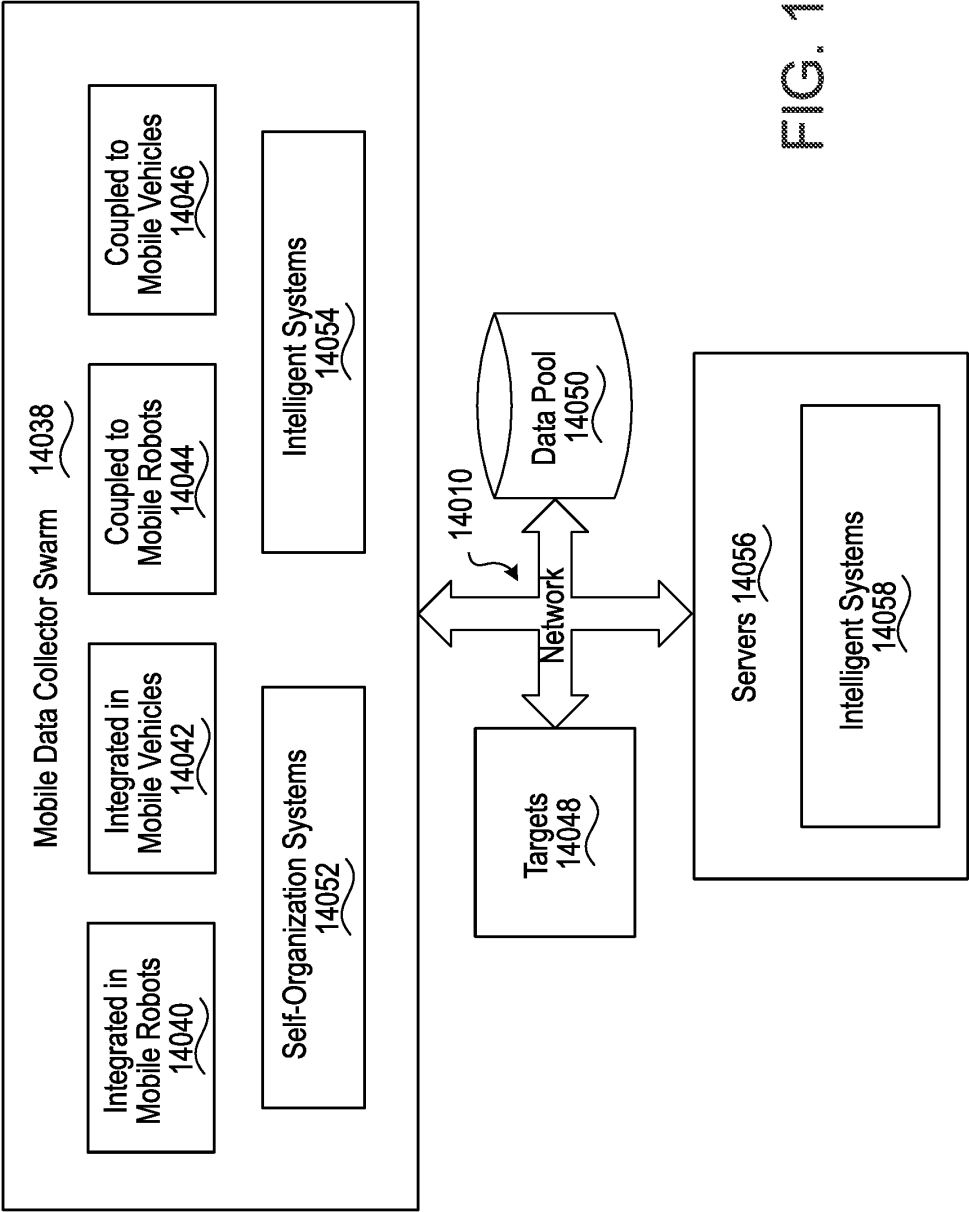


FIG. 165

165/233

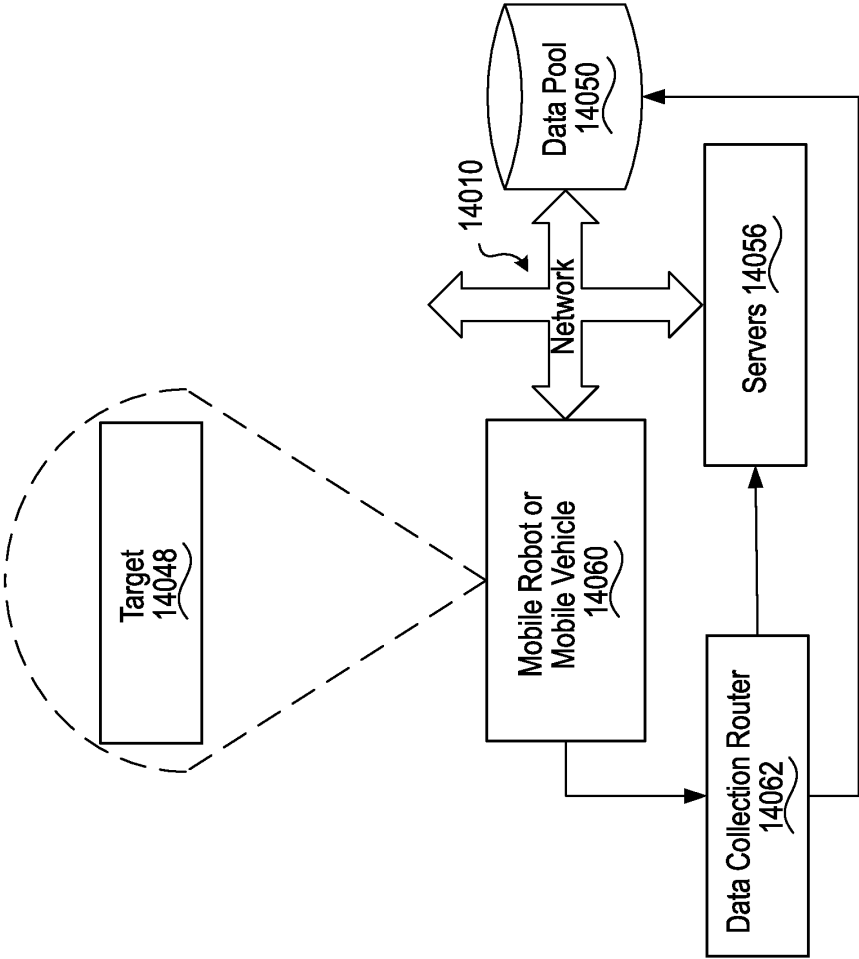


FIG. 166

166/233

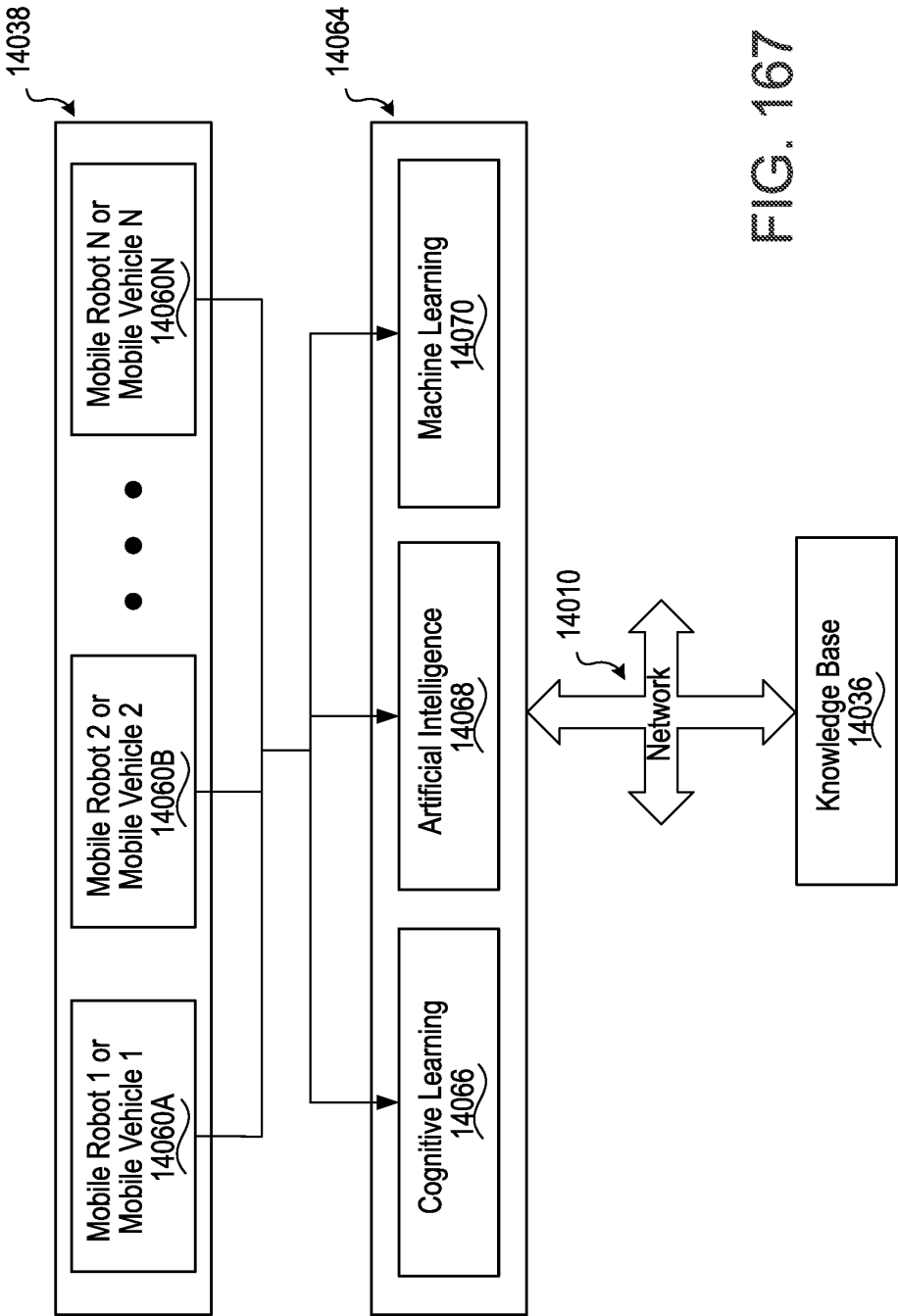


FIG. 167

167/233

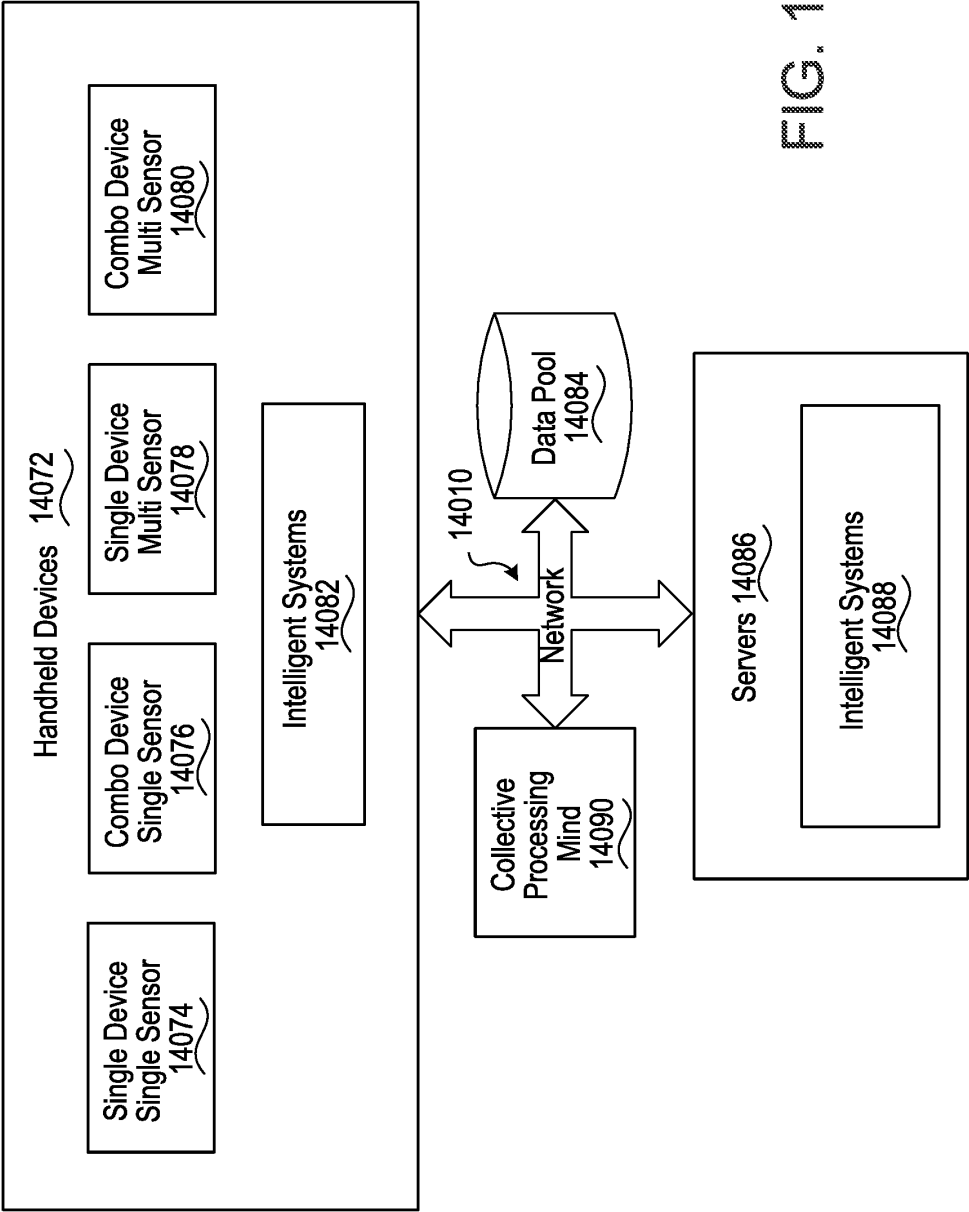


FIG. 168

168/233

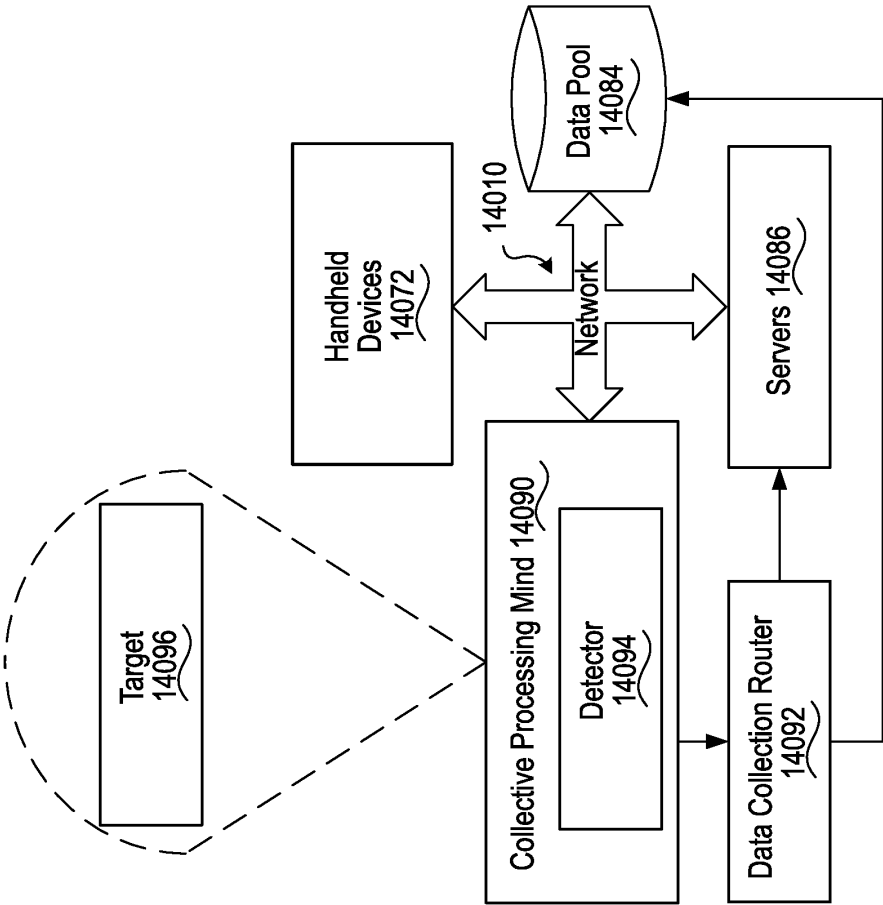


FIG. 169

169/233

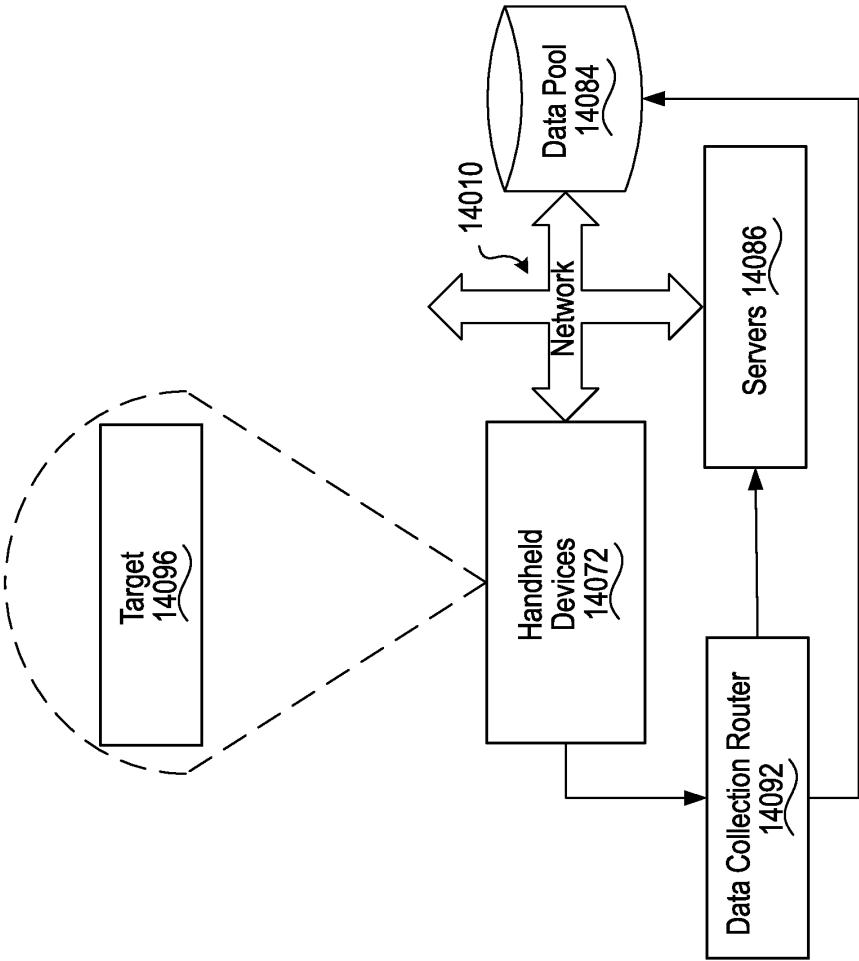
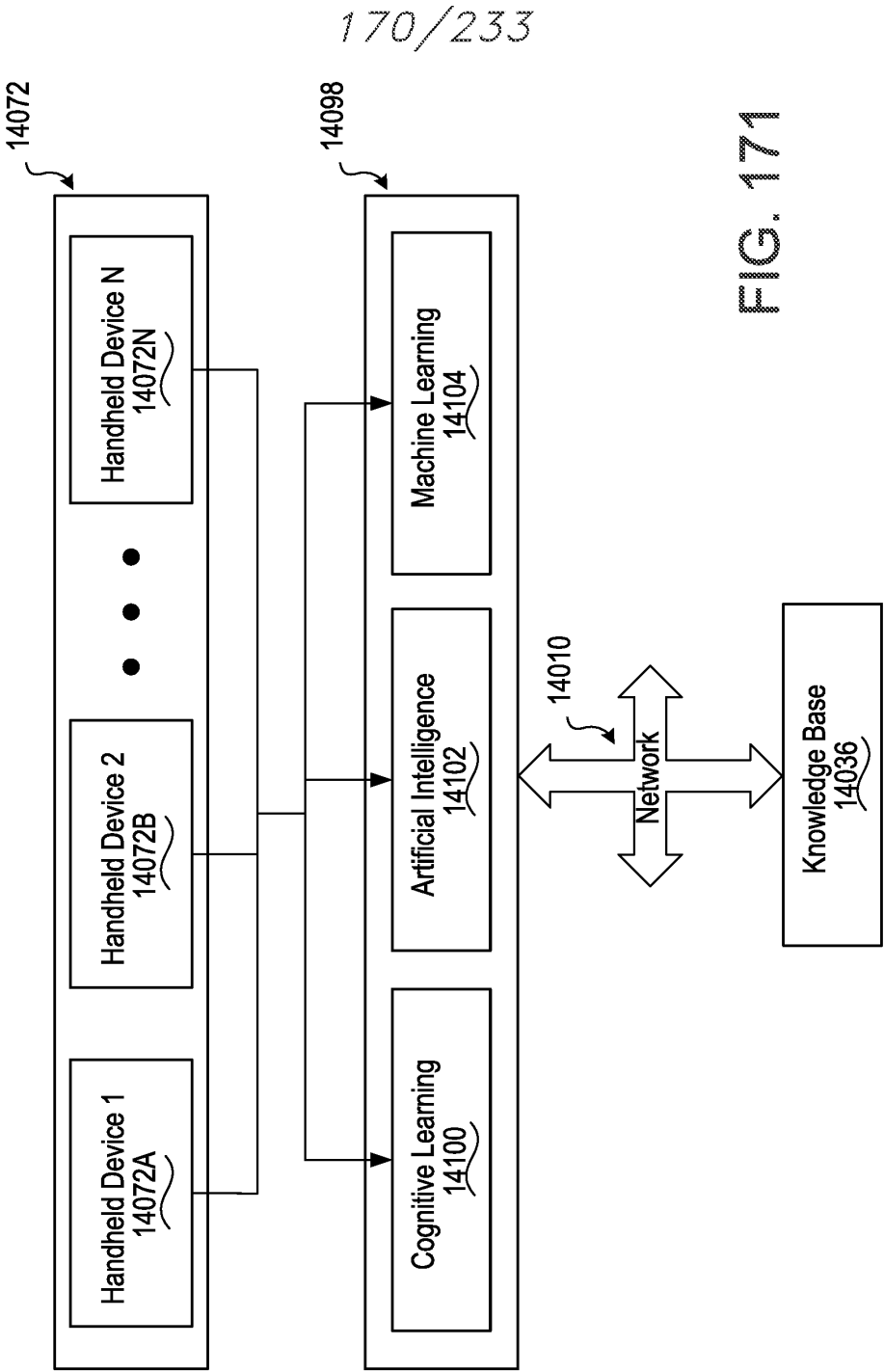


FIG. 170



171/233

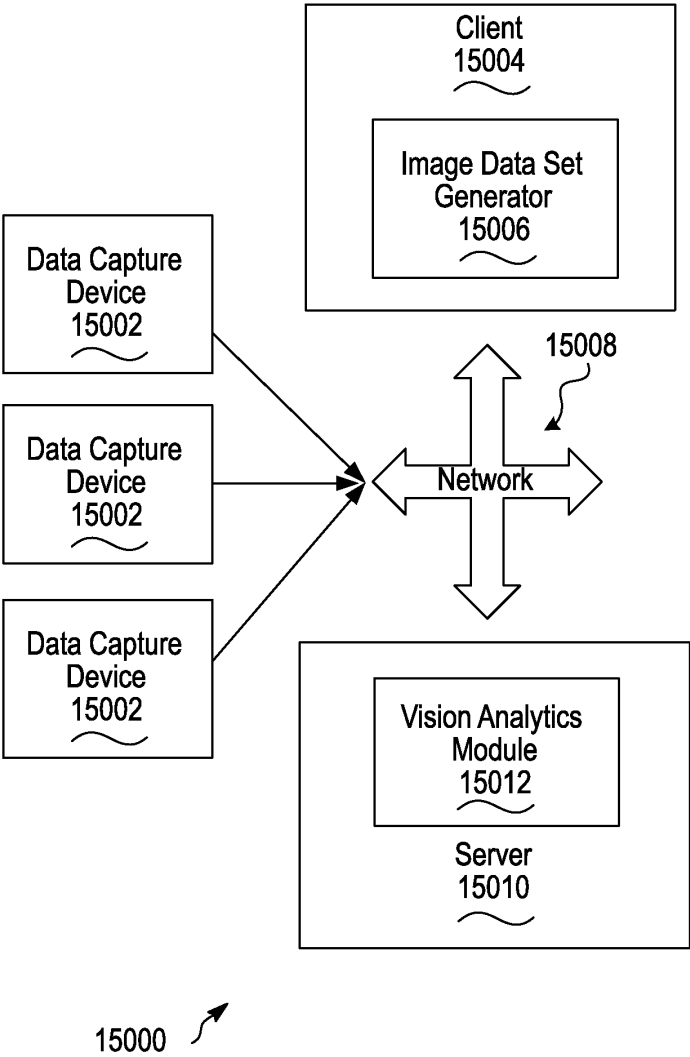


FIG. 172

172/233

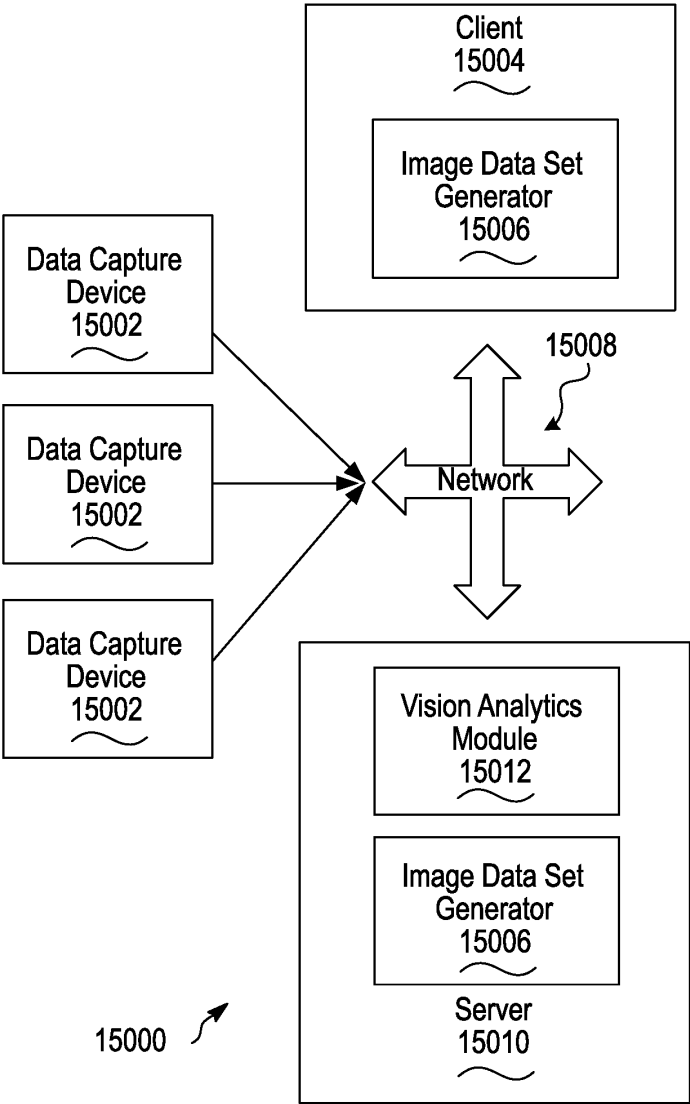


FIG. 173

173/233

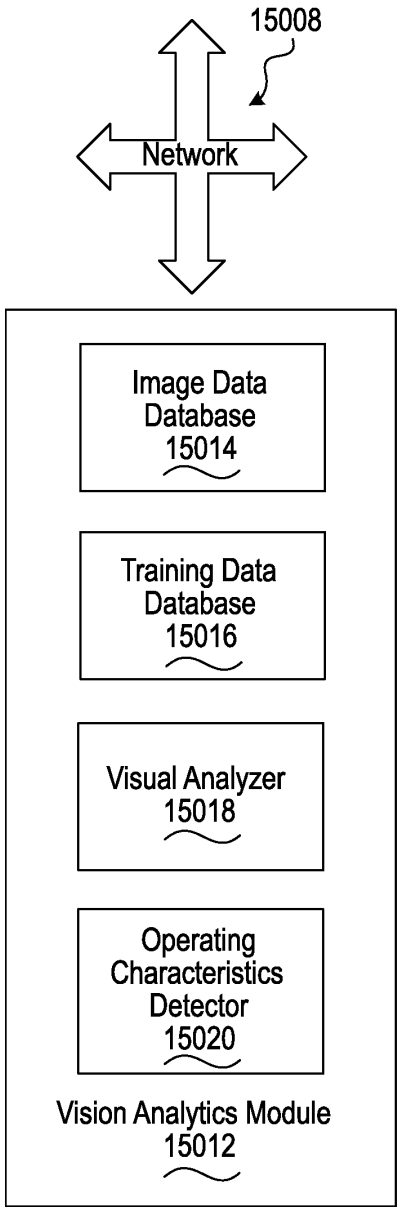


FIG. 174

174/233

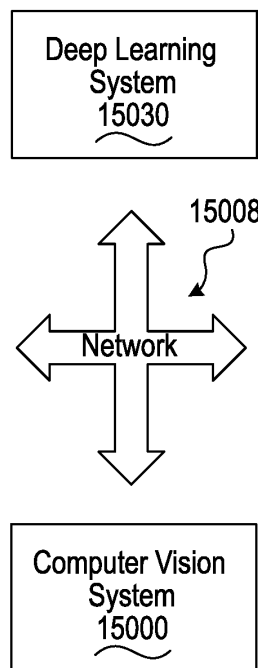


FIG. 175

175/233

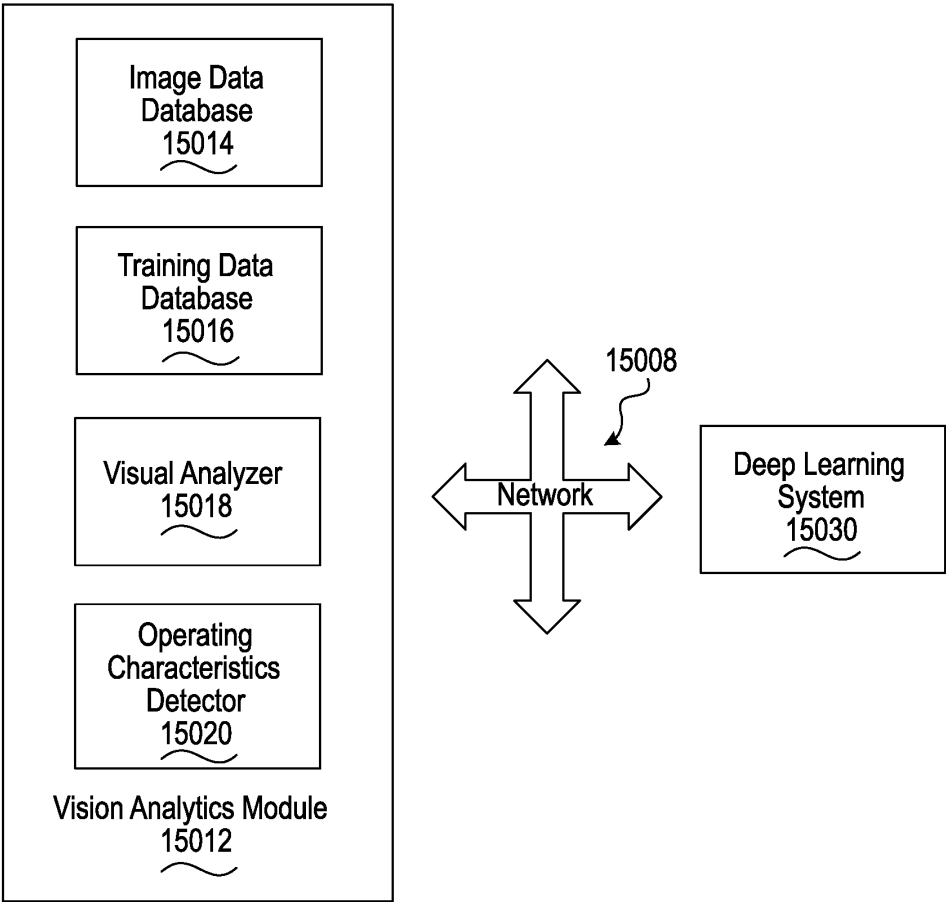
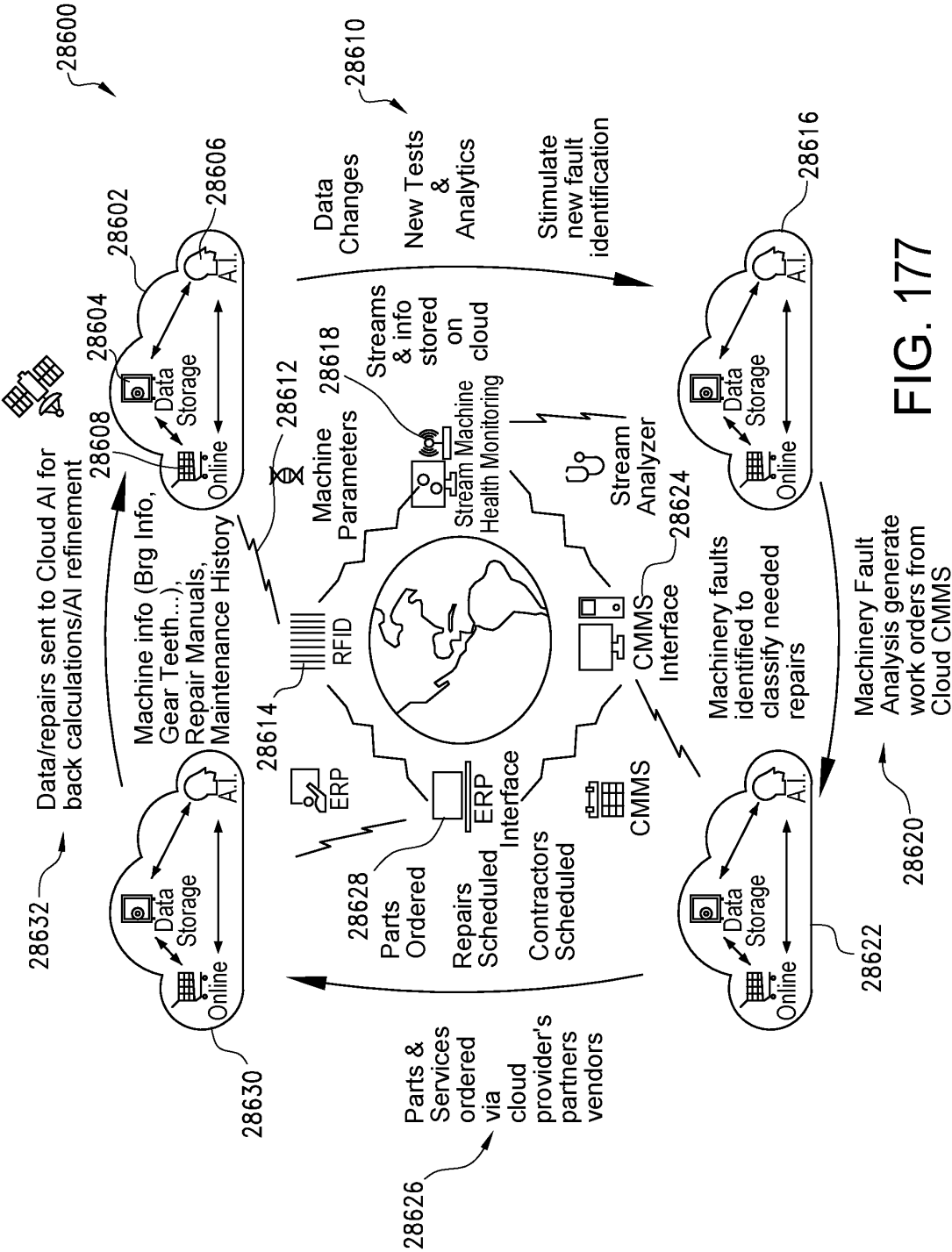


FIG. 176

176/233



177/233

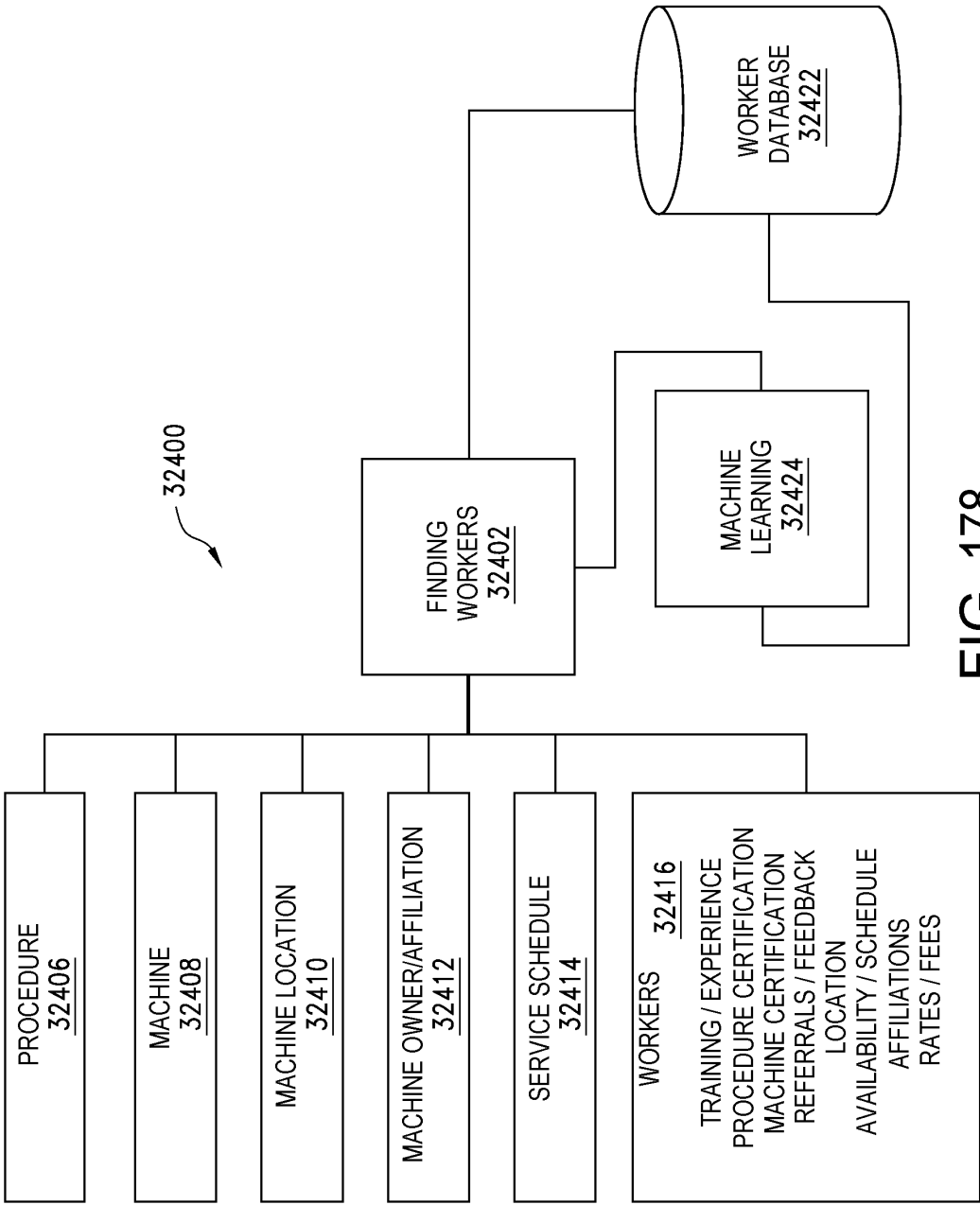
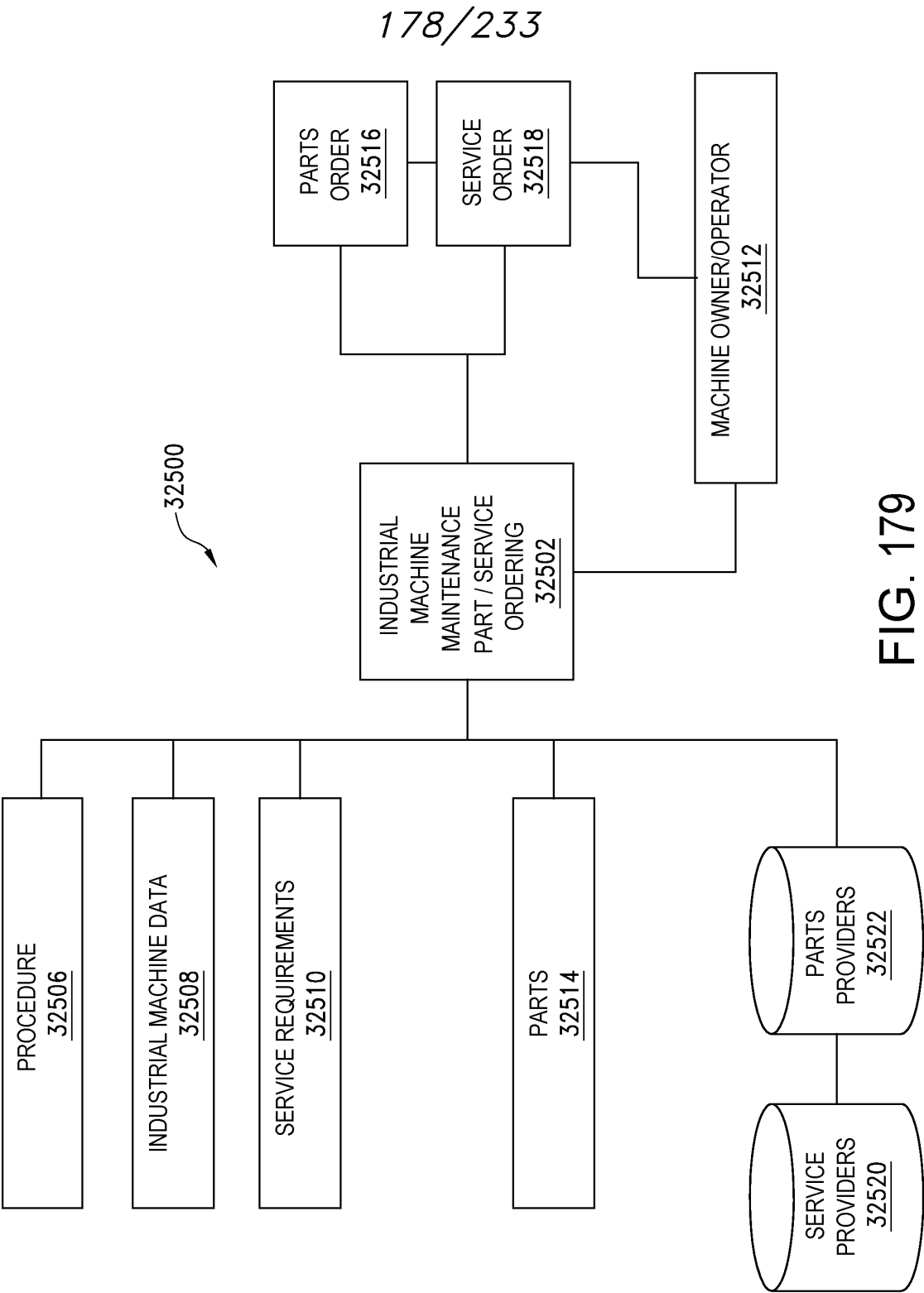
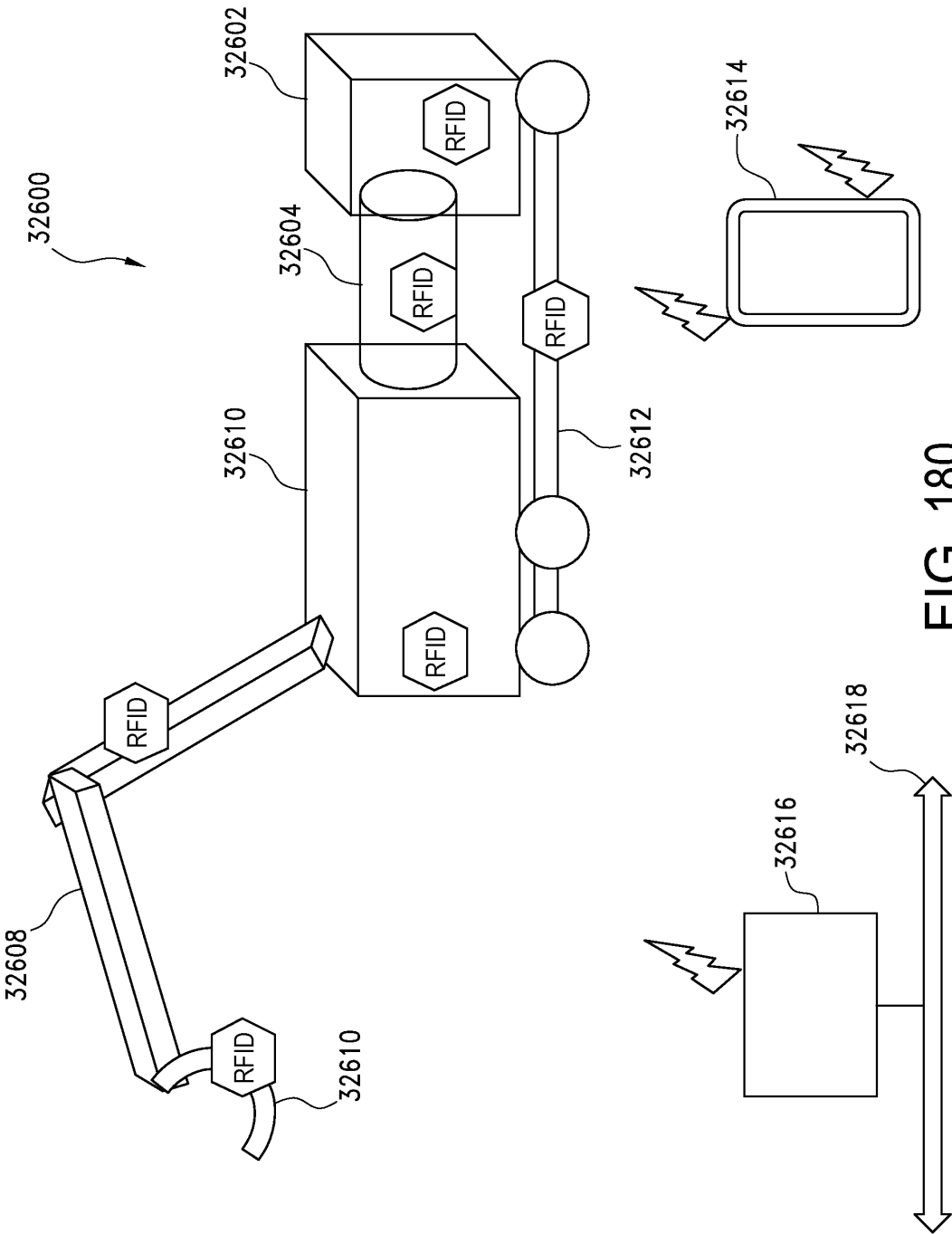


FIG. 178



179/233



180/233

32702		32704		32700
Category	Description	Notes		
Production	Production activity			
Parts	List of parts			
Quality	Tests and results			
Installation	Action taken			
Validation	Acceptance testing			
Procedures	List of procedures			
Operational	Collected data from part sensors			
Assembly	Information related to sub-assemblies			

32708

32710

FIG. 181

32802		32804		32800
Production	Value	Notes	32810	
Assembly date	xx/yy/zzzz	Work order xxxx		
Location	Factory #, city, state			
Model #	Item # produced			
Serial #	Specific serial #	Could include sub-assembly serial numbers		
Time	Time of day			
Work order #	Specific production work order #	May include several work order #s		
Customer	Customer code			
Images	Links to images	As-built images		

FIG. 182

Machine-level	# and version	Notes
Calibration	xxx, v2.1	Weekly
Shutdown	yyy, v1.3	As needed
Regulatory	zzz, v1.34	Updated xx/yy/zzzz
Assembly	aaa, v3	
Safety check	bbb, v4.2a	Last run xx/yy/zzzz
Image capture	ccc, v1.1	

FIG. 183

183/233

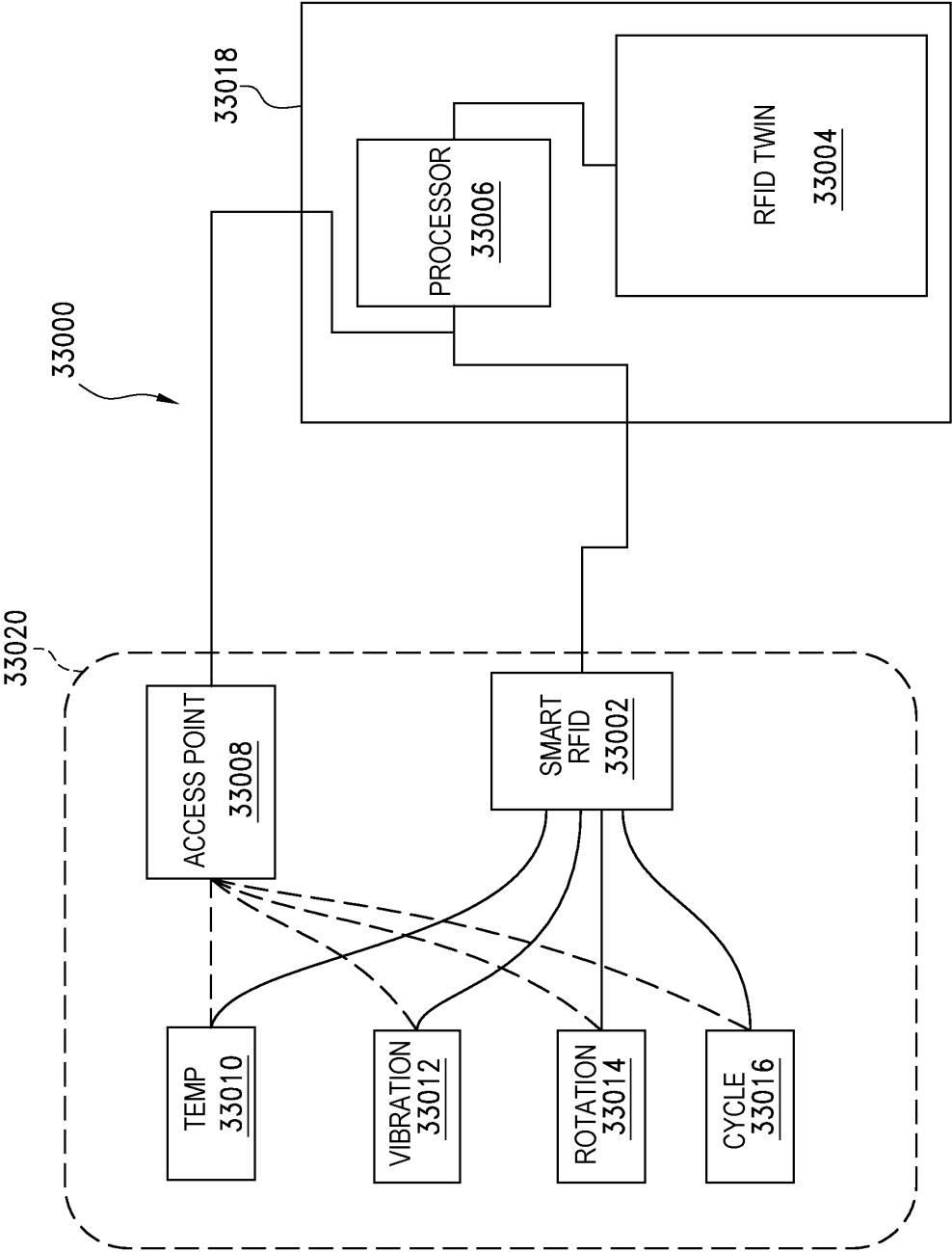


FIG. 184

184/233

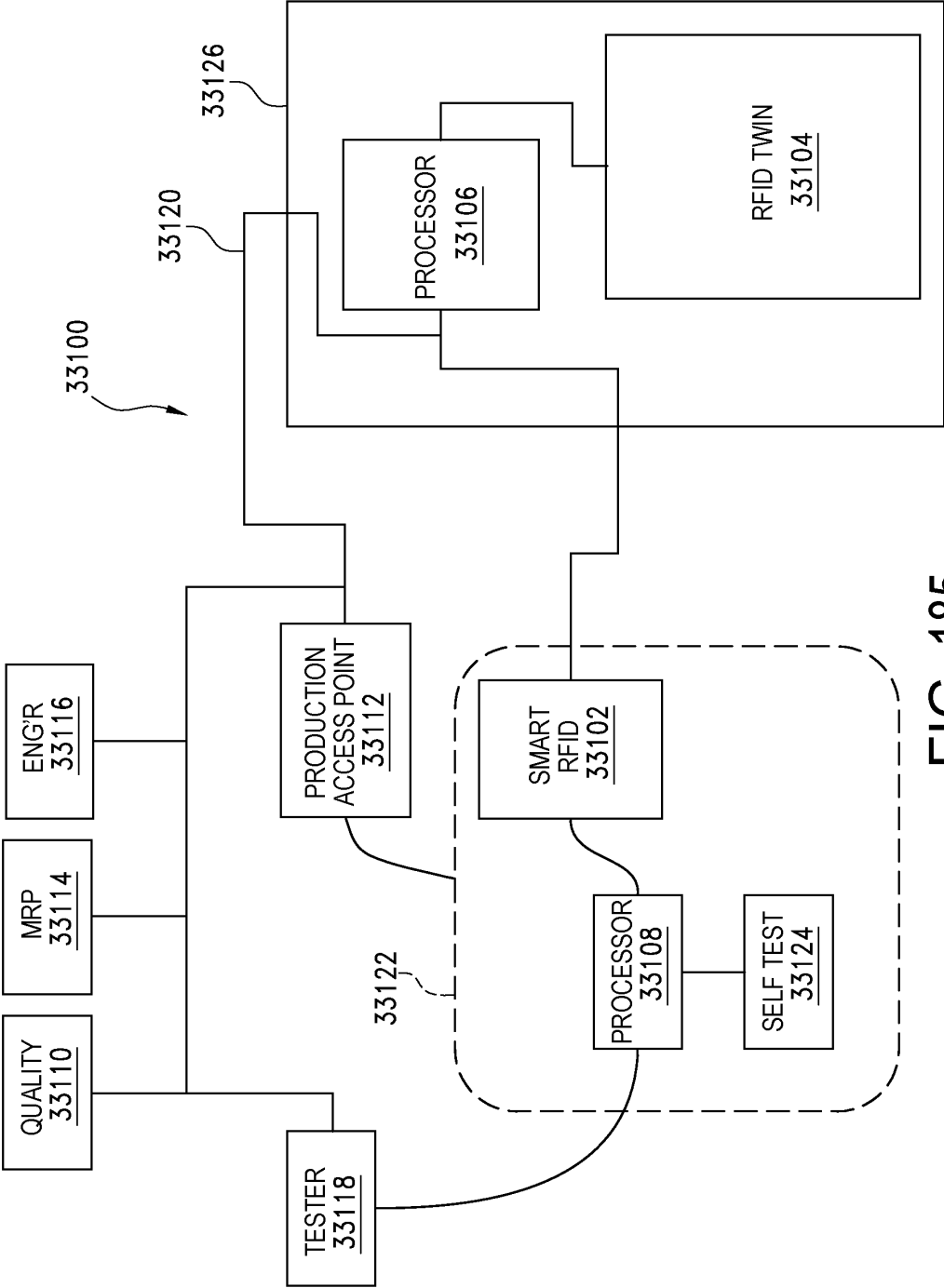


FIG. 185

185/233

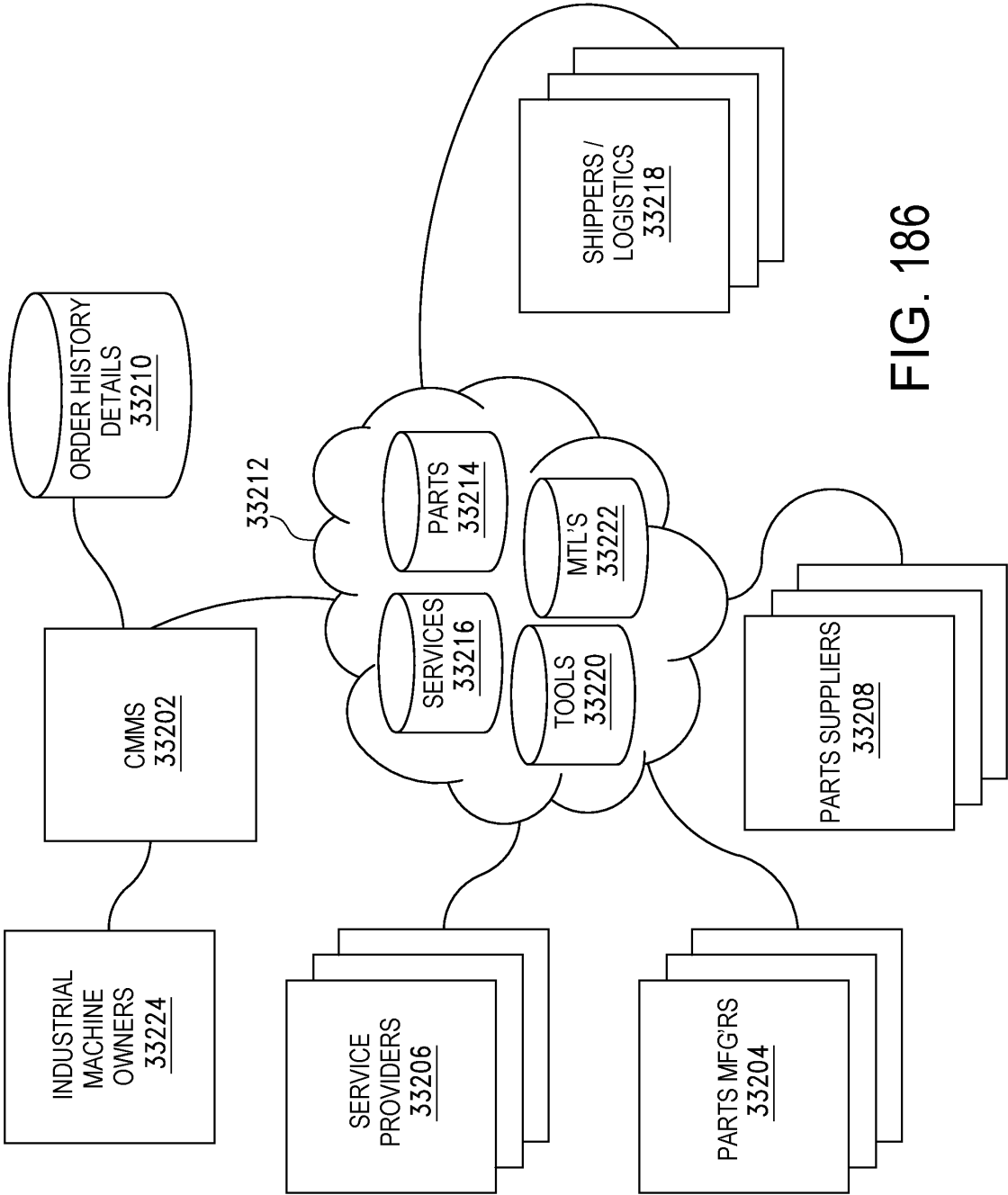
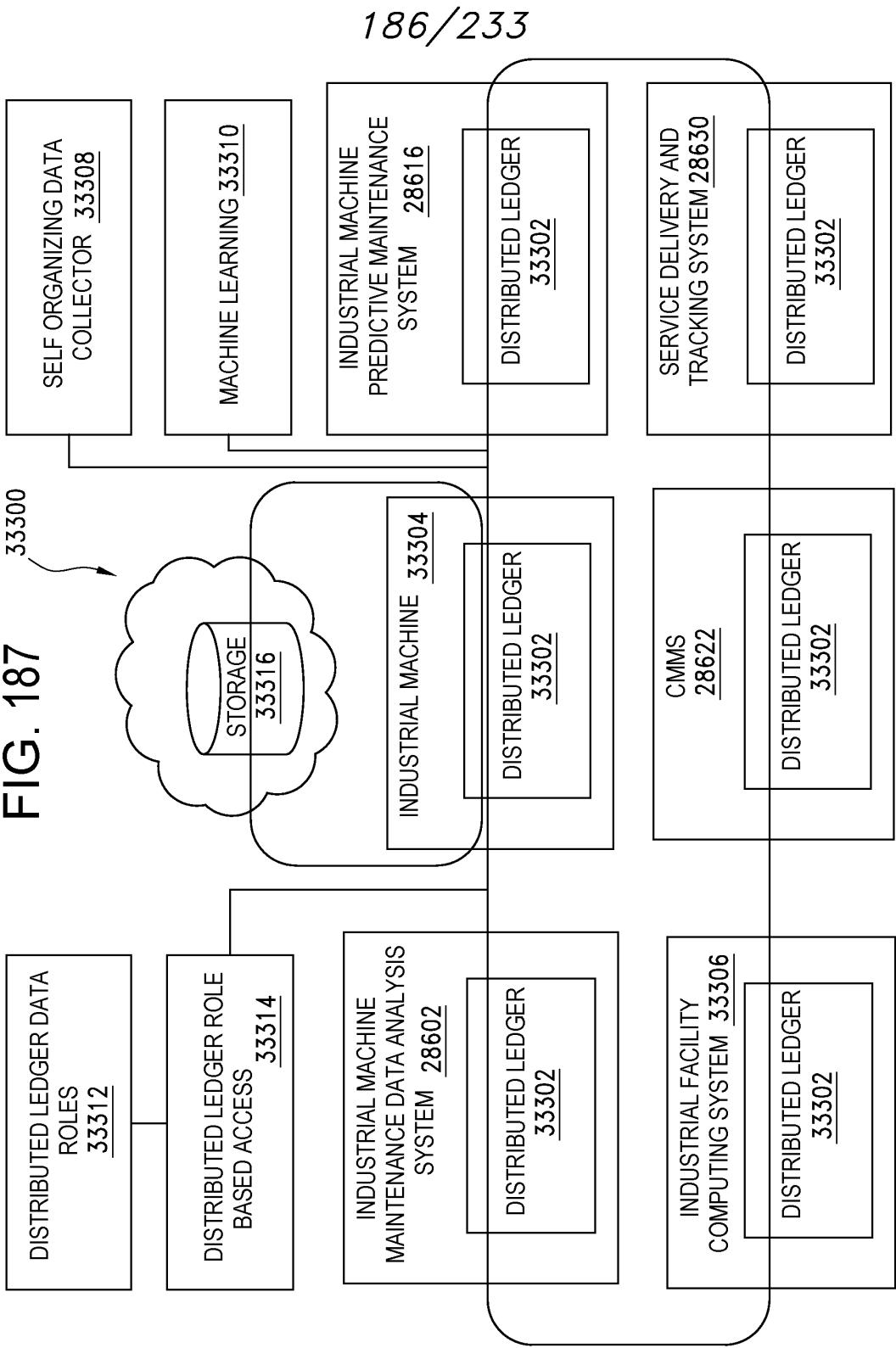


FIG. 186



187/233

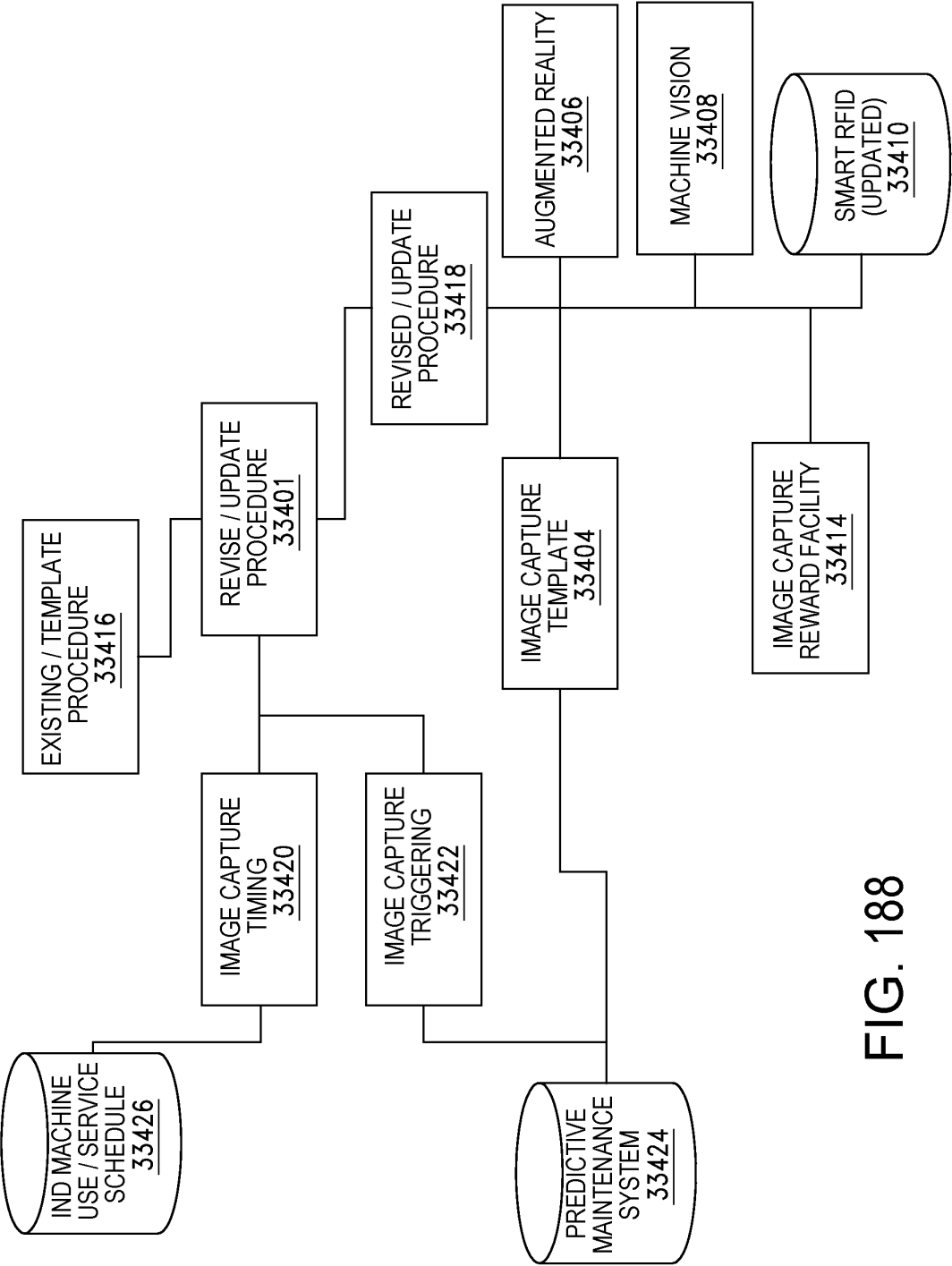


FIG. 188

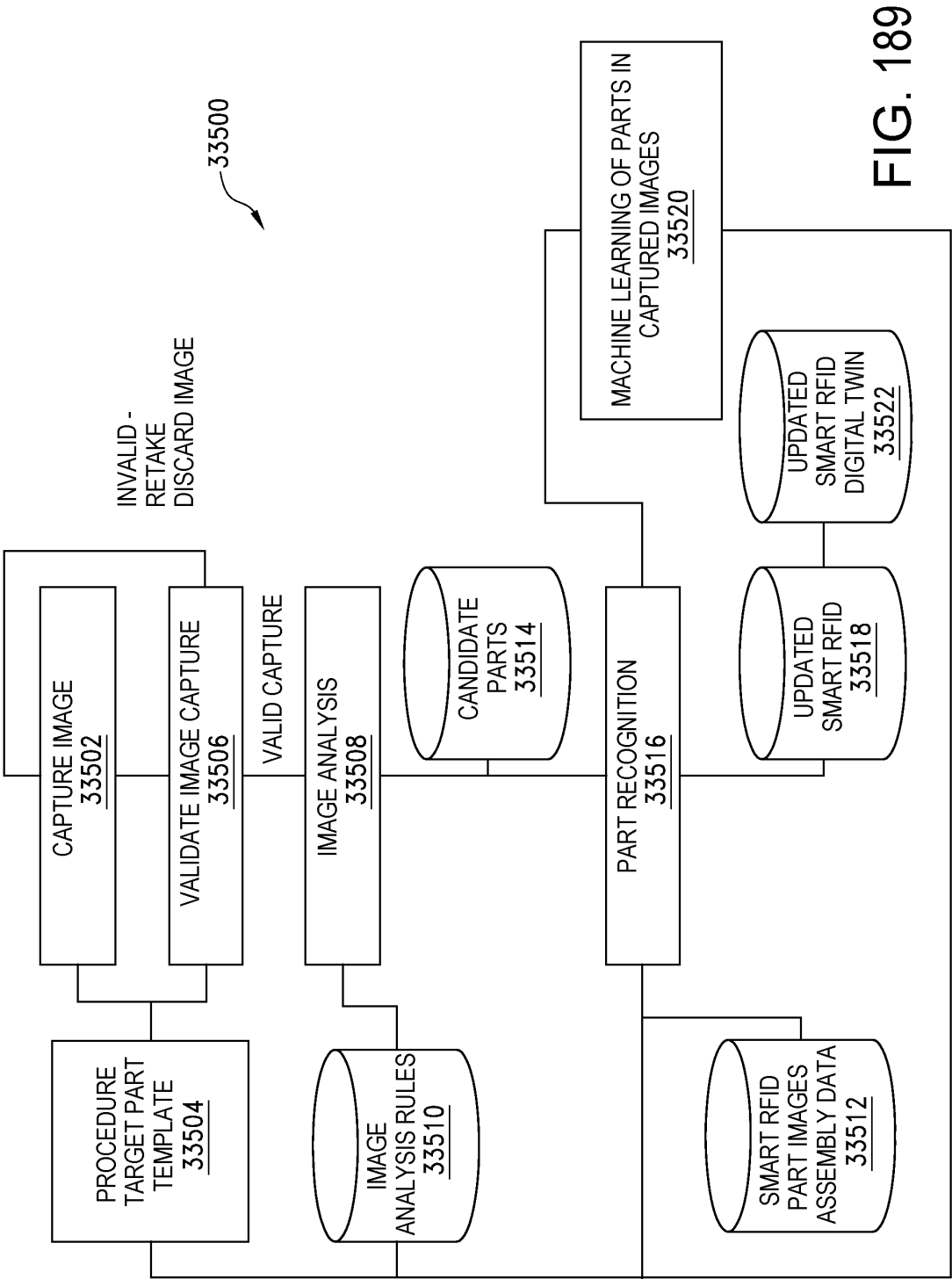


FIG. 189

189/233

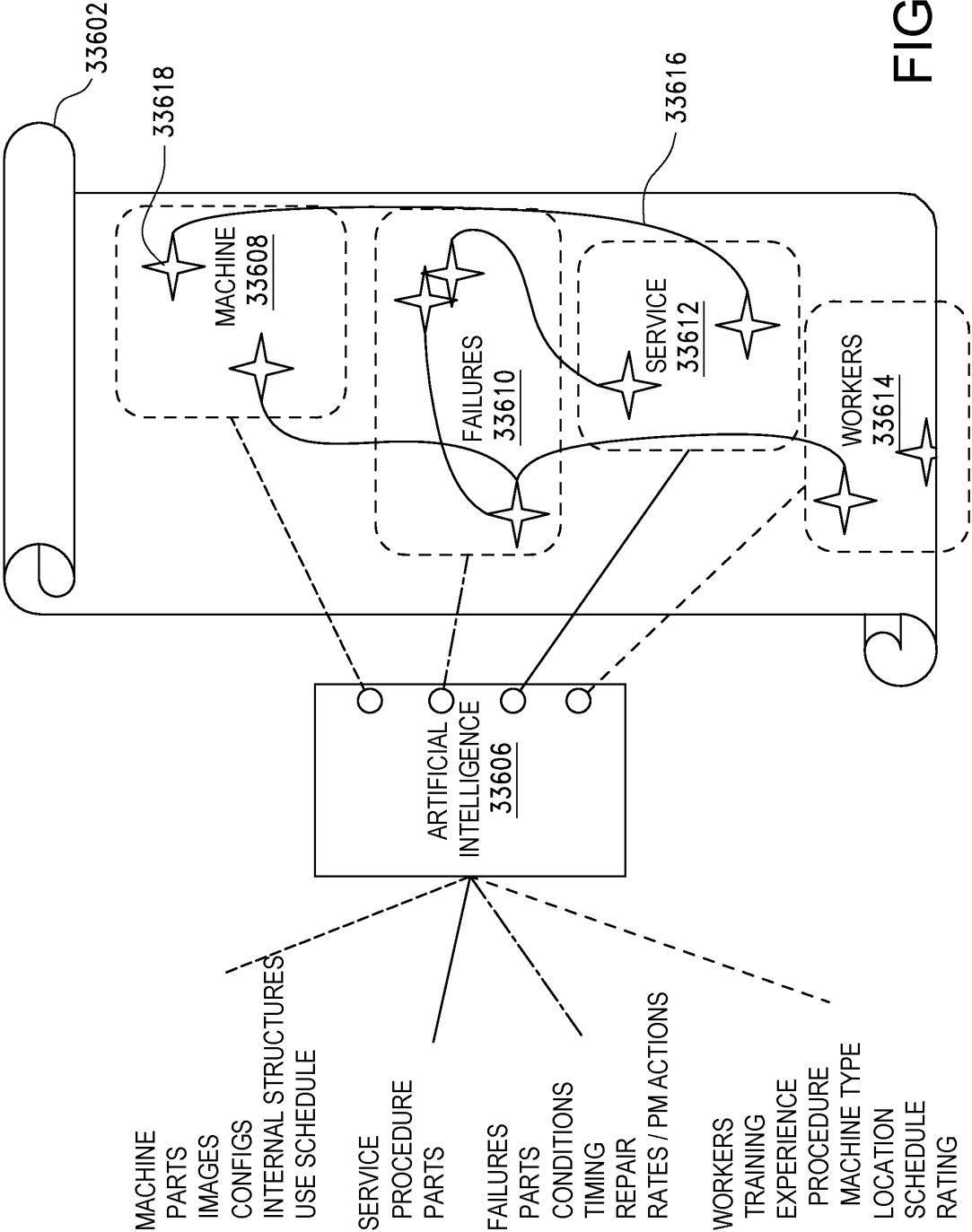


FIG. 190

190/233

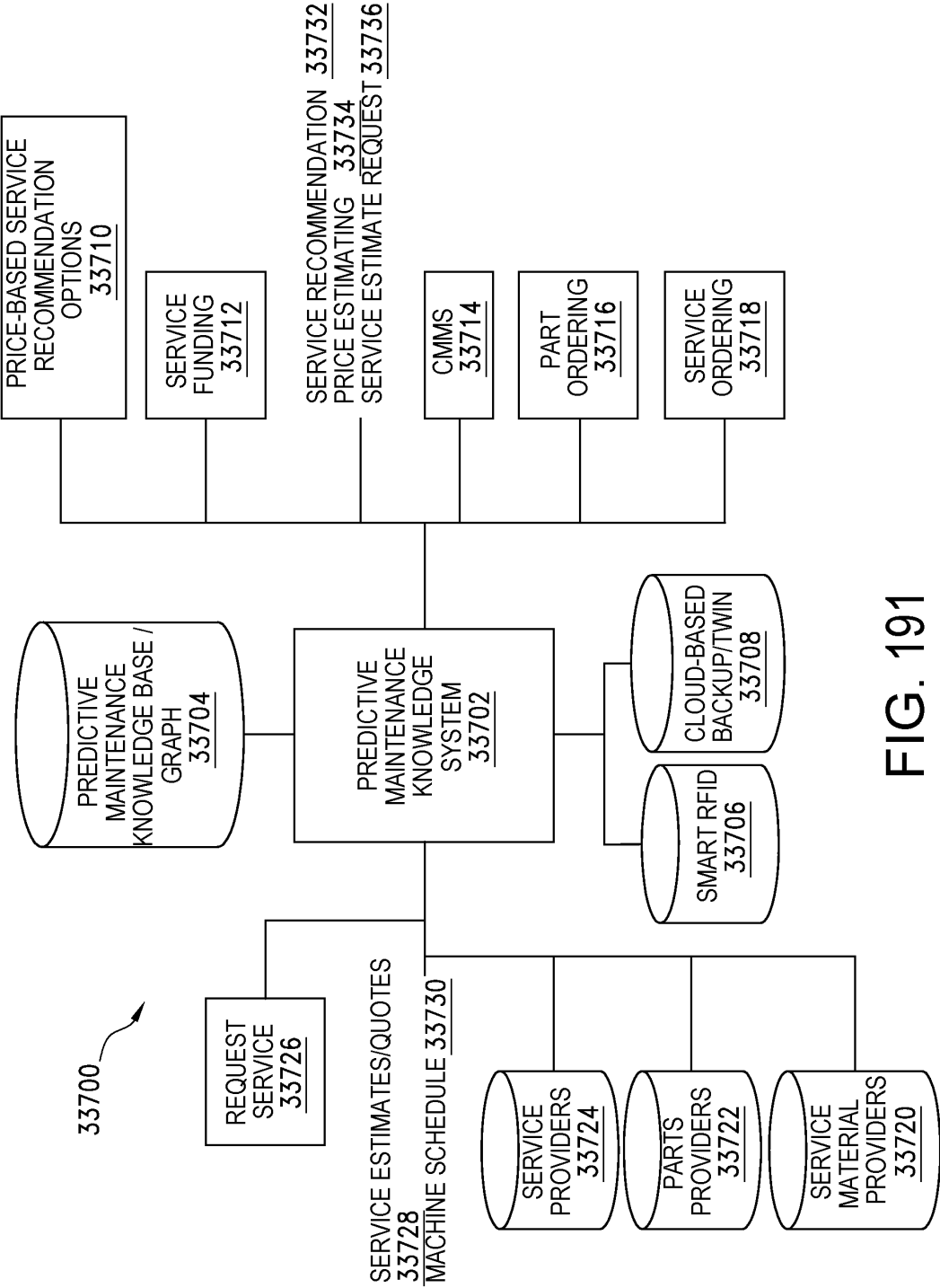


FIG. 191

191/233

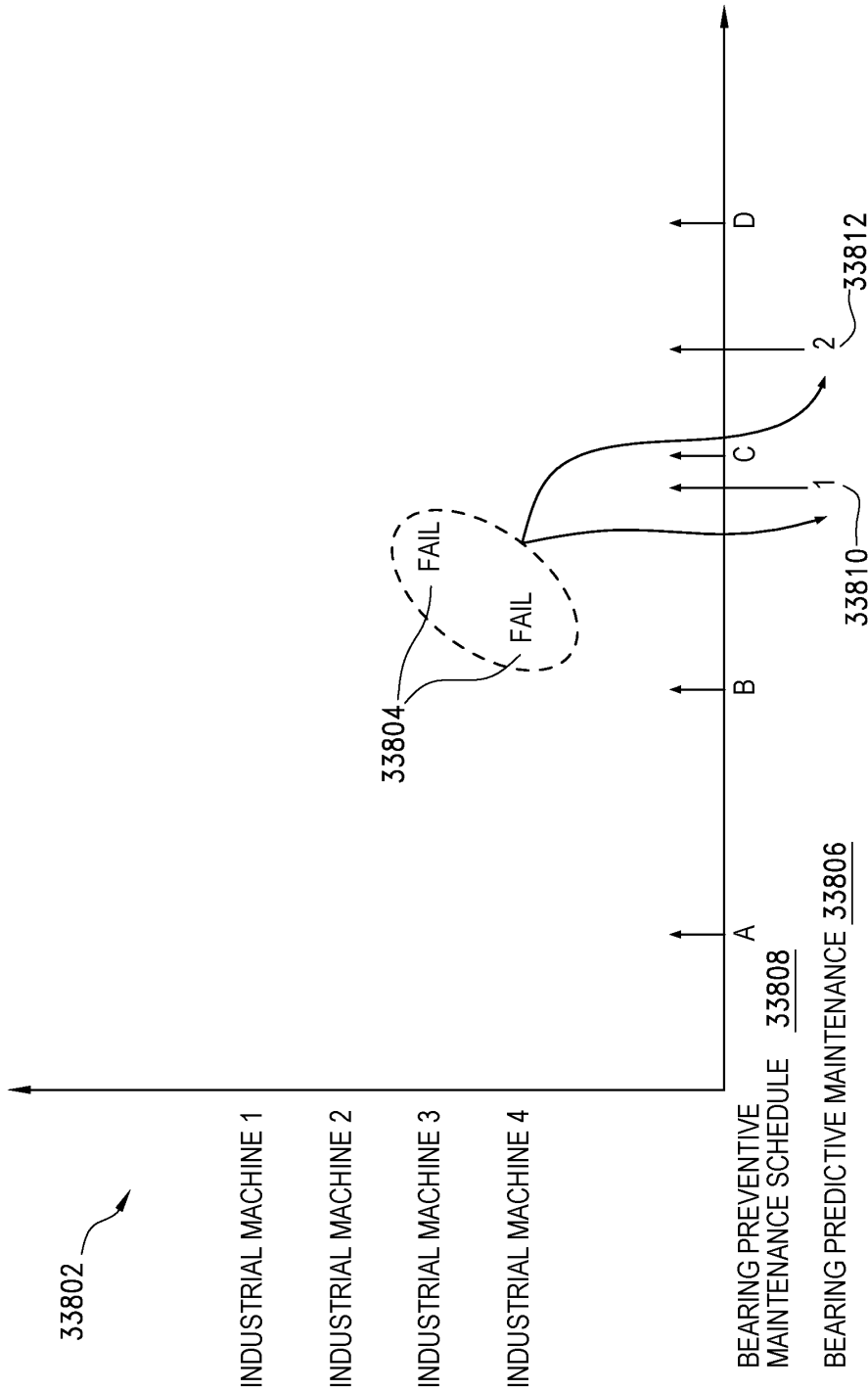


FIG. 192

192/233

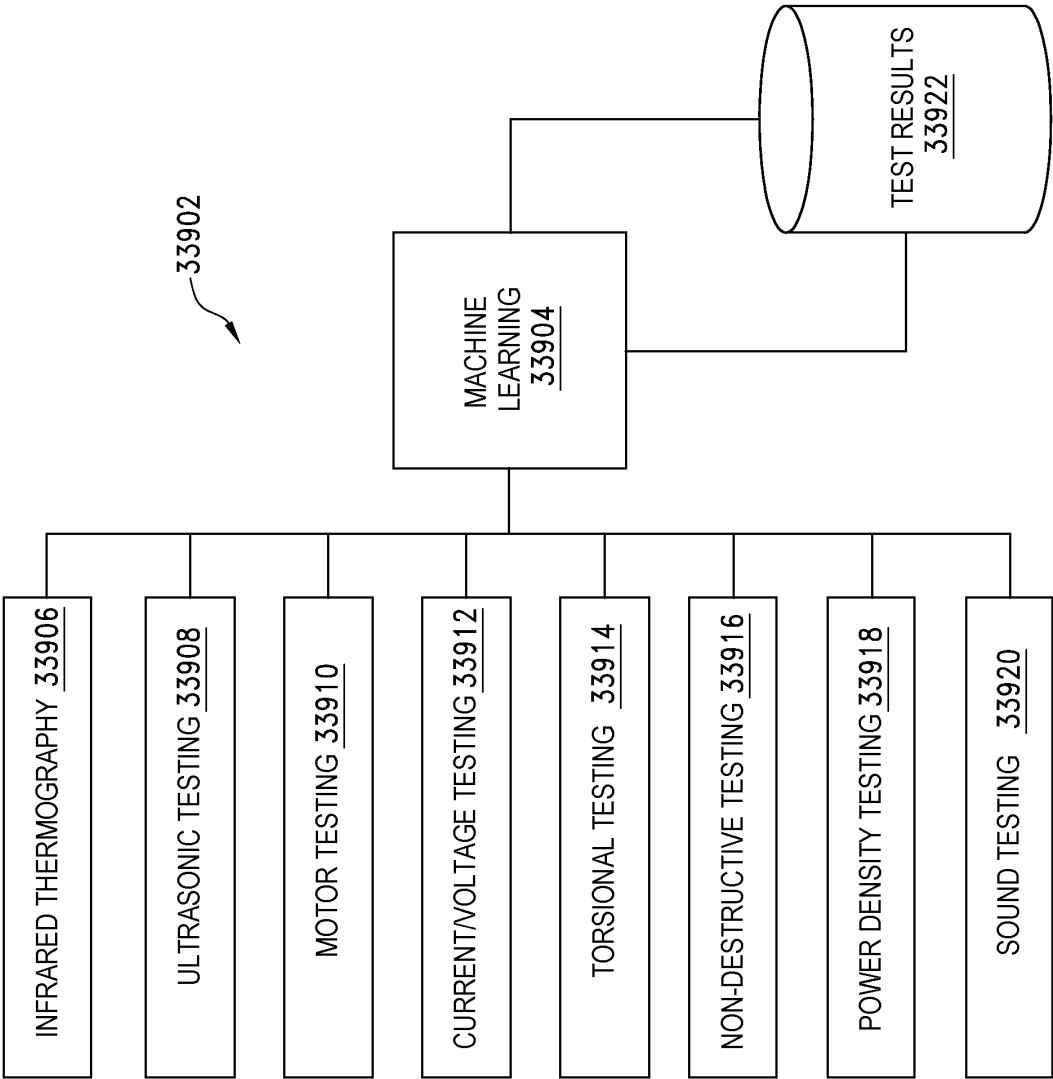


FIG. 193

193/233

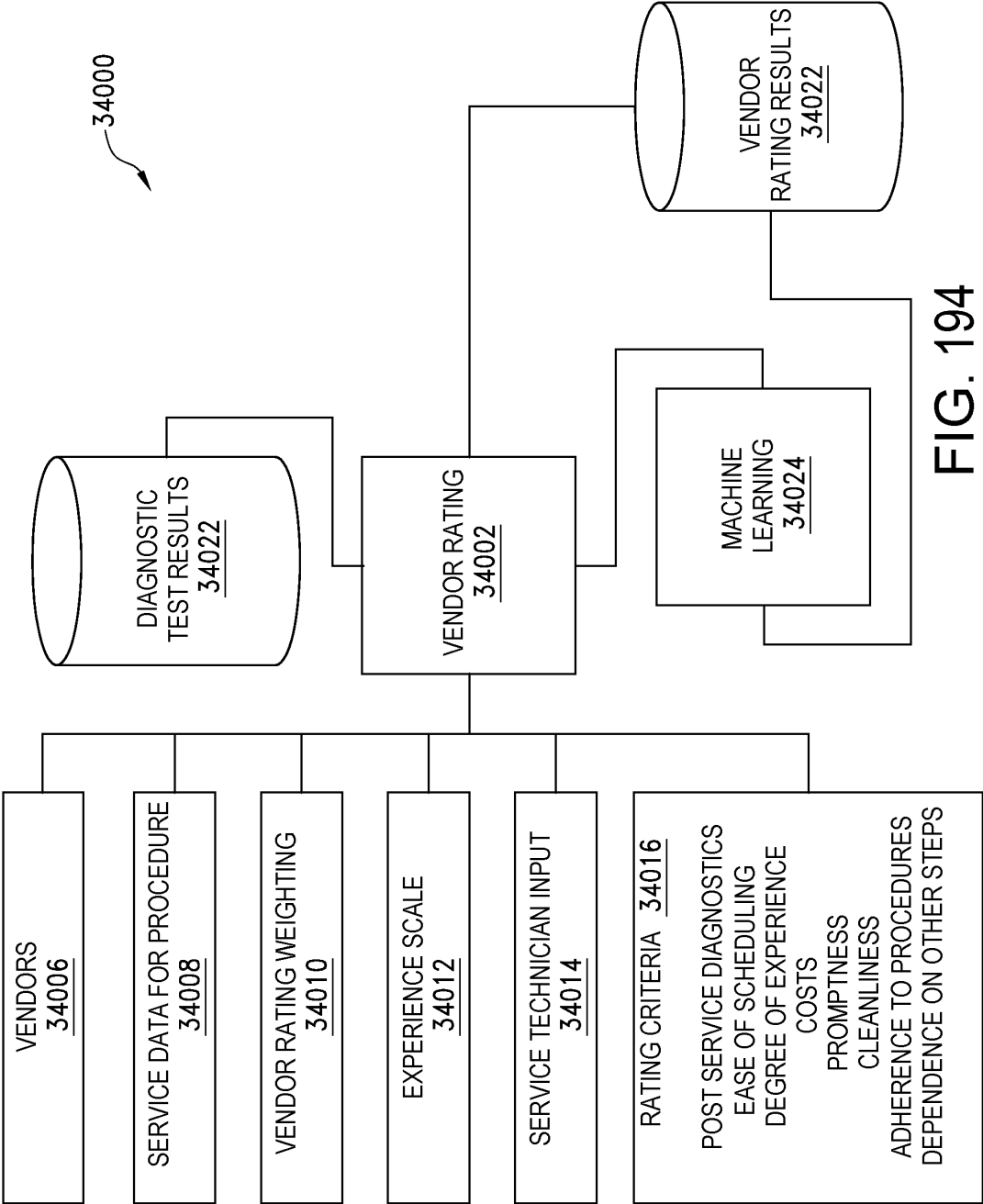


FIG. 194

194/233

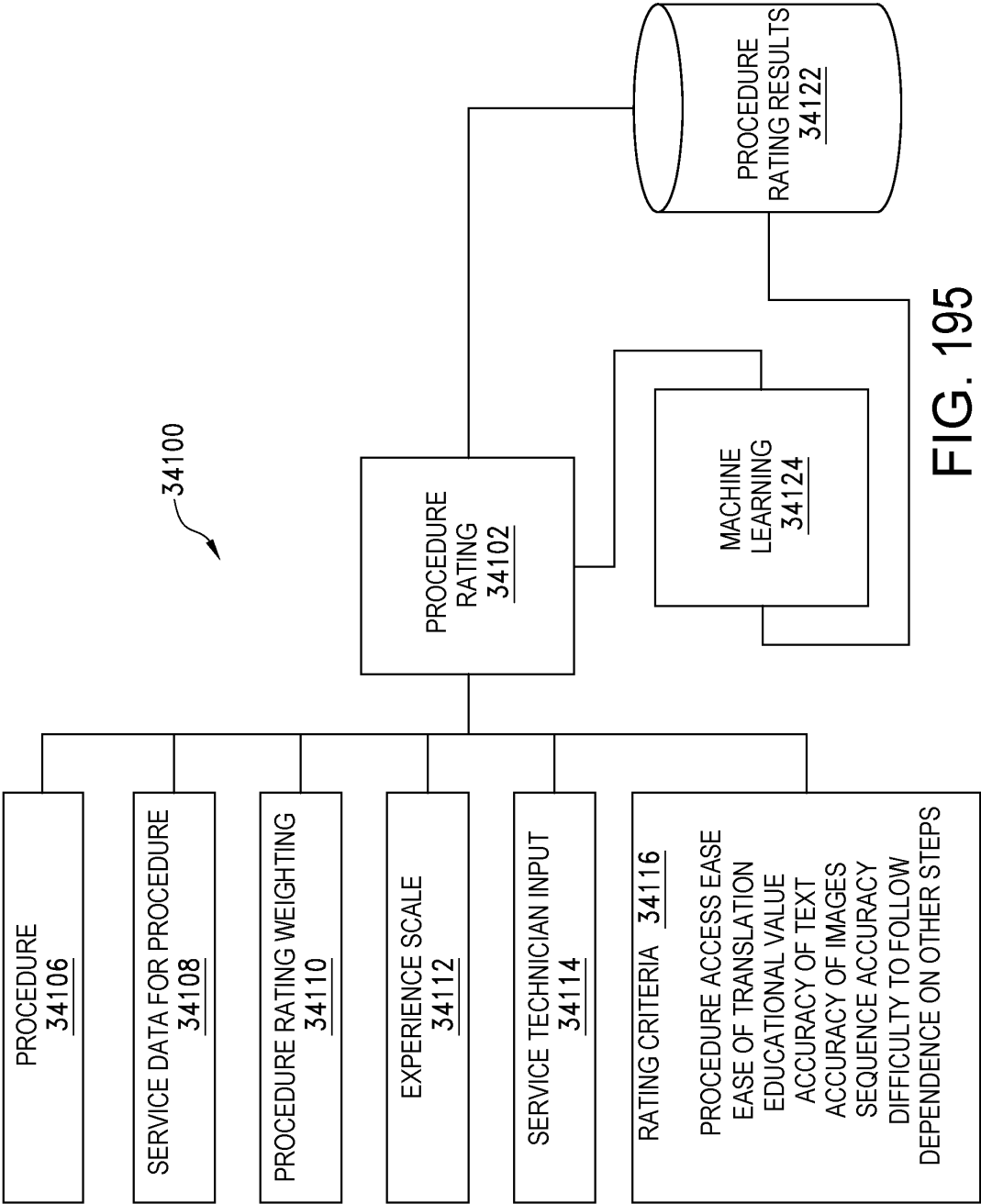


FIG. 195

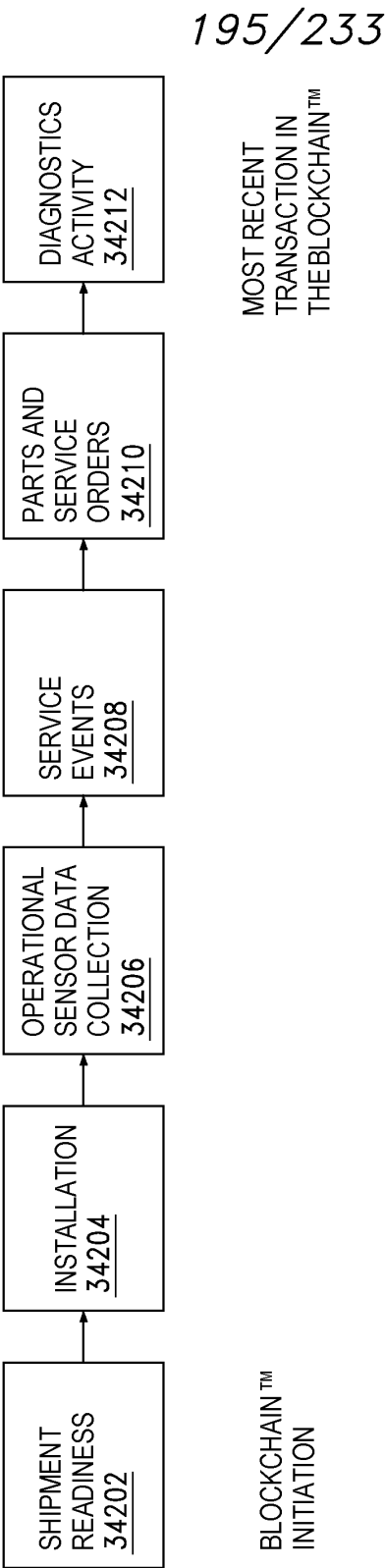


FIG. 196

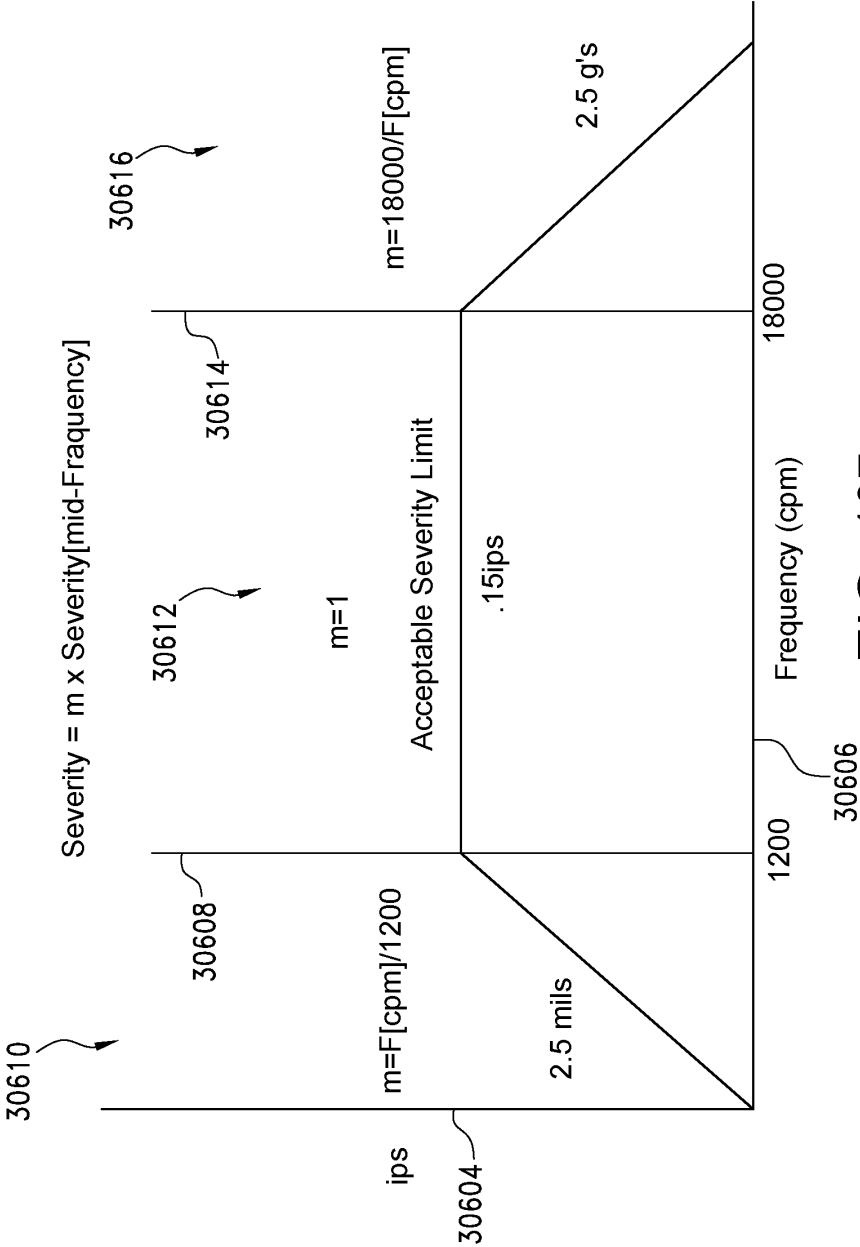


FIG. 197

197/233

Spectral Peak Levels taken with Bearing Cap Mounted Accelerometer

Severity	Action	< 1200 cpm < 20 hz mils pk-to-pk	1200 cpm - 18000 cpm 20-300 hz ips pk (inches-per-sec peak)	> 18500 cpm > 300hz g's pk
	Acceptable	< 2.5	Level < .15	< 2.5
*	Watch	2.5 < Level < 5.0	.15 < Level < .3	2.5 < Level < 5.0
**	Resurvey	5.0 < Level < 10.0	.3 < Level < .6	5.0 < Level < 10.0
***	Action Soon	10.0 < Level < 16.6	.6 < Level < 1.0	10.0 < Level < 16.6
****	Immediate	Level > 16.6	Level > 1.0	Level > 16.6

FIG. 198

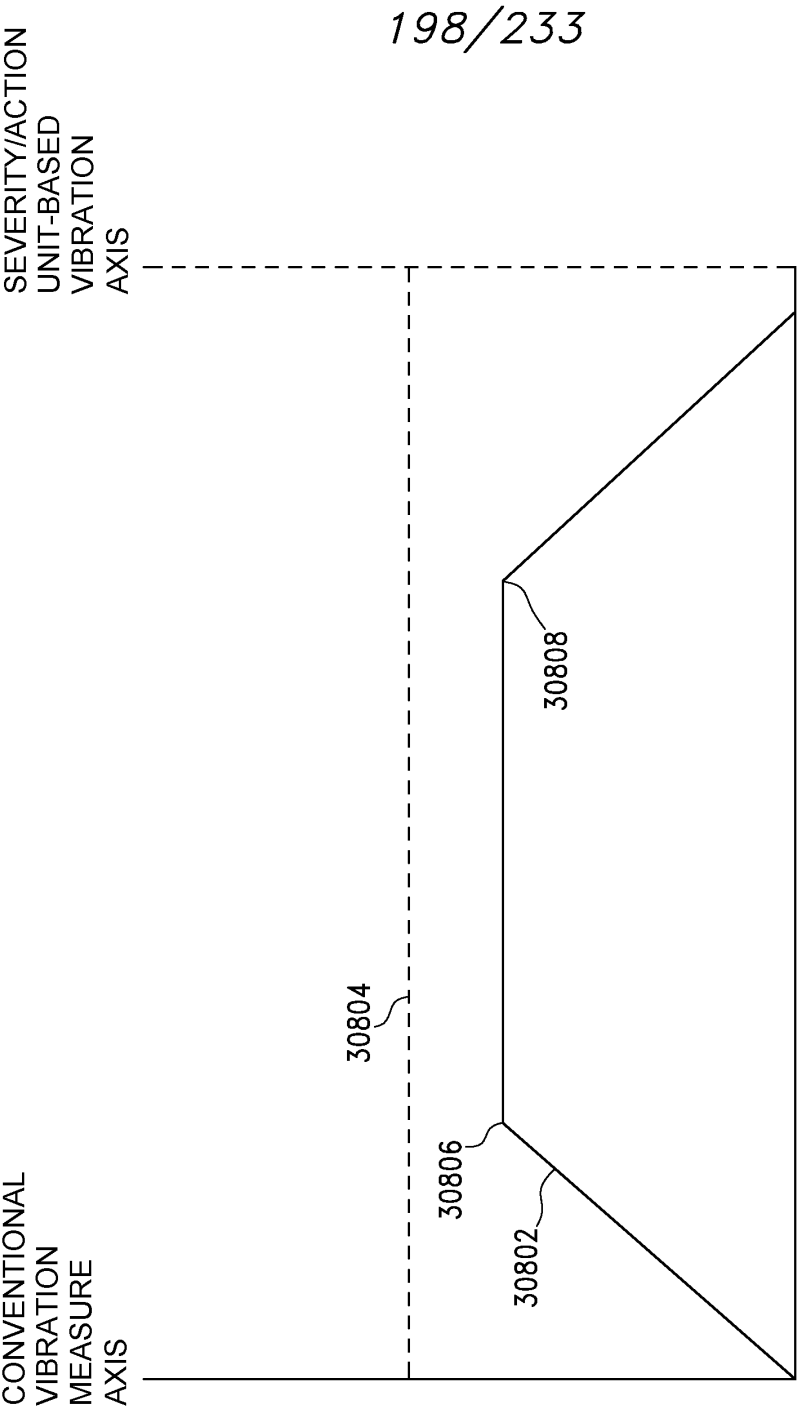


FIG. 199

199/233

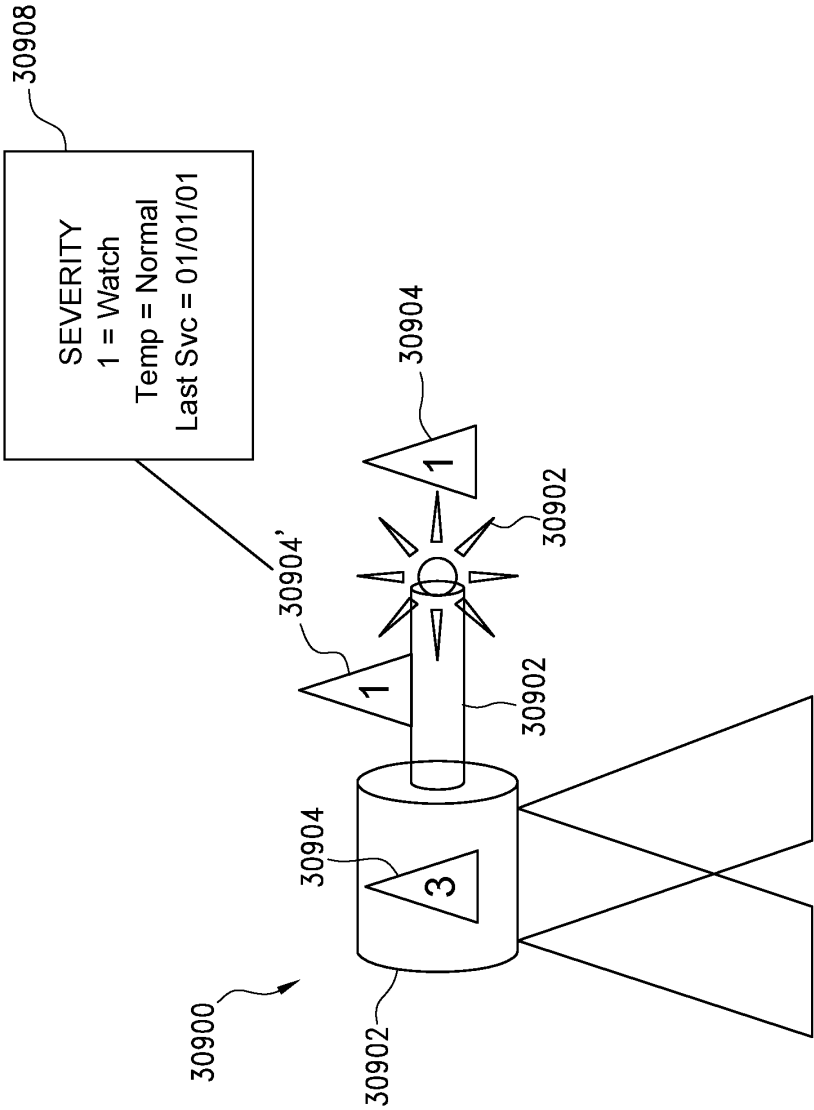


FIG. 200

200/233

31000

31002		31004		31006
Rotating Comp	Parameter	Value		
Gear x	Tooth Count	32		
Gear y	Tooth Count	43		
Gear Box a	Count of gears	4		
Gear Box a	Type of gears	x		
Shaft	RPM	1200		
Roller bearing m	Count of balls	14		
Roller bearing m	Race inner diameter	1.2		
Roller bearing m	Race outer diameter	2.8		
Roller bearing m	Number of vanes	7		

FIG. 201

201/233

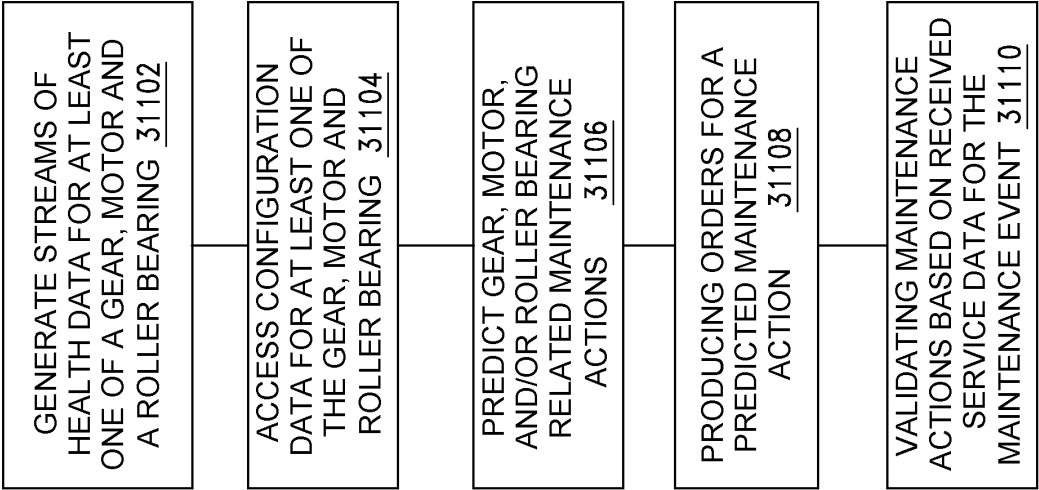


FIG. 202

202/233

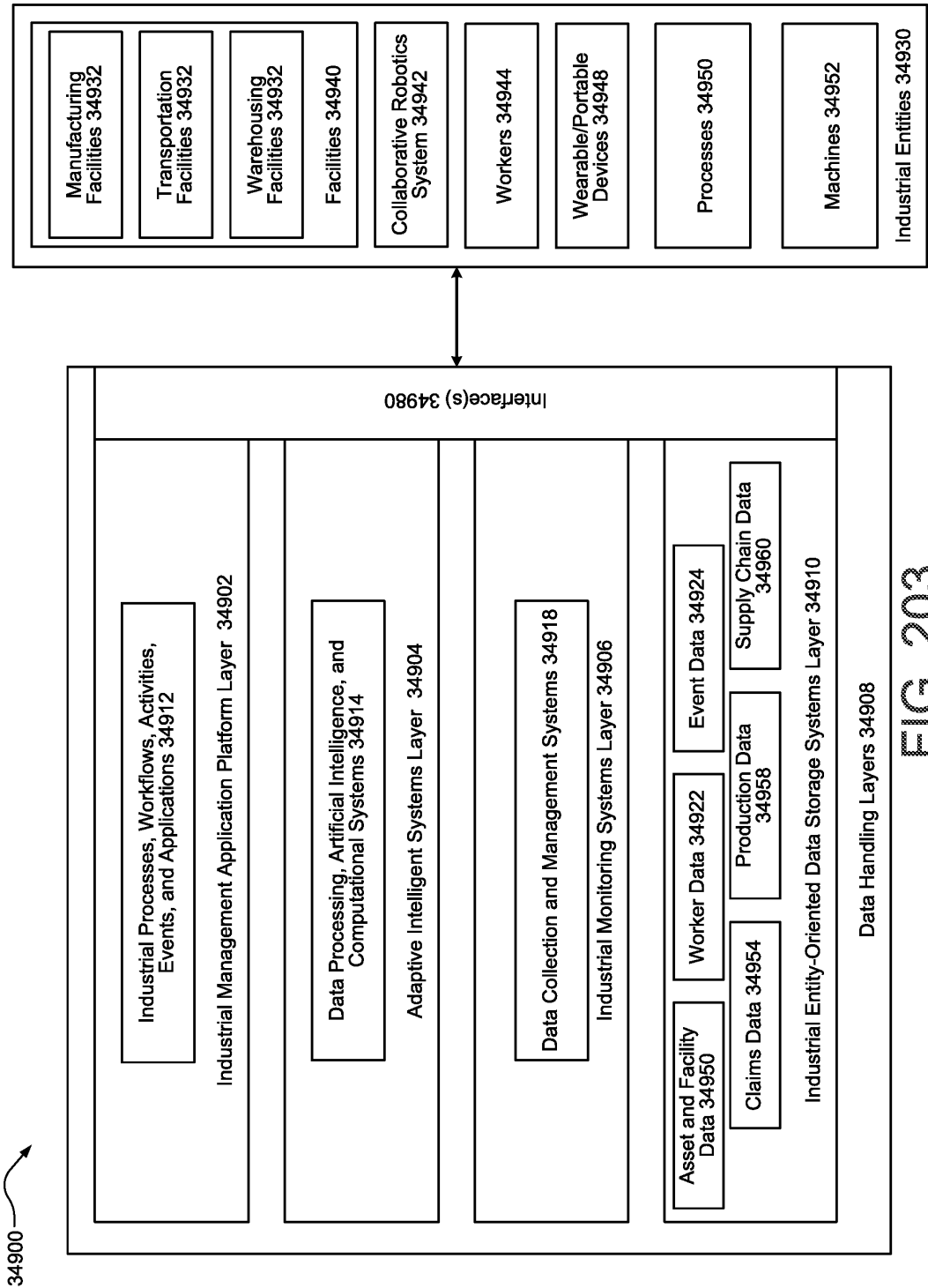
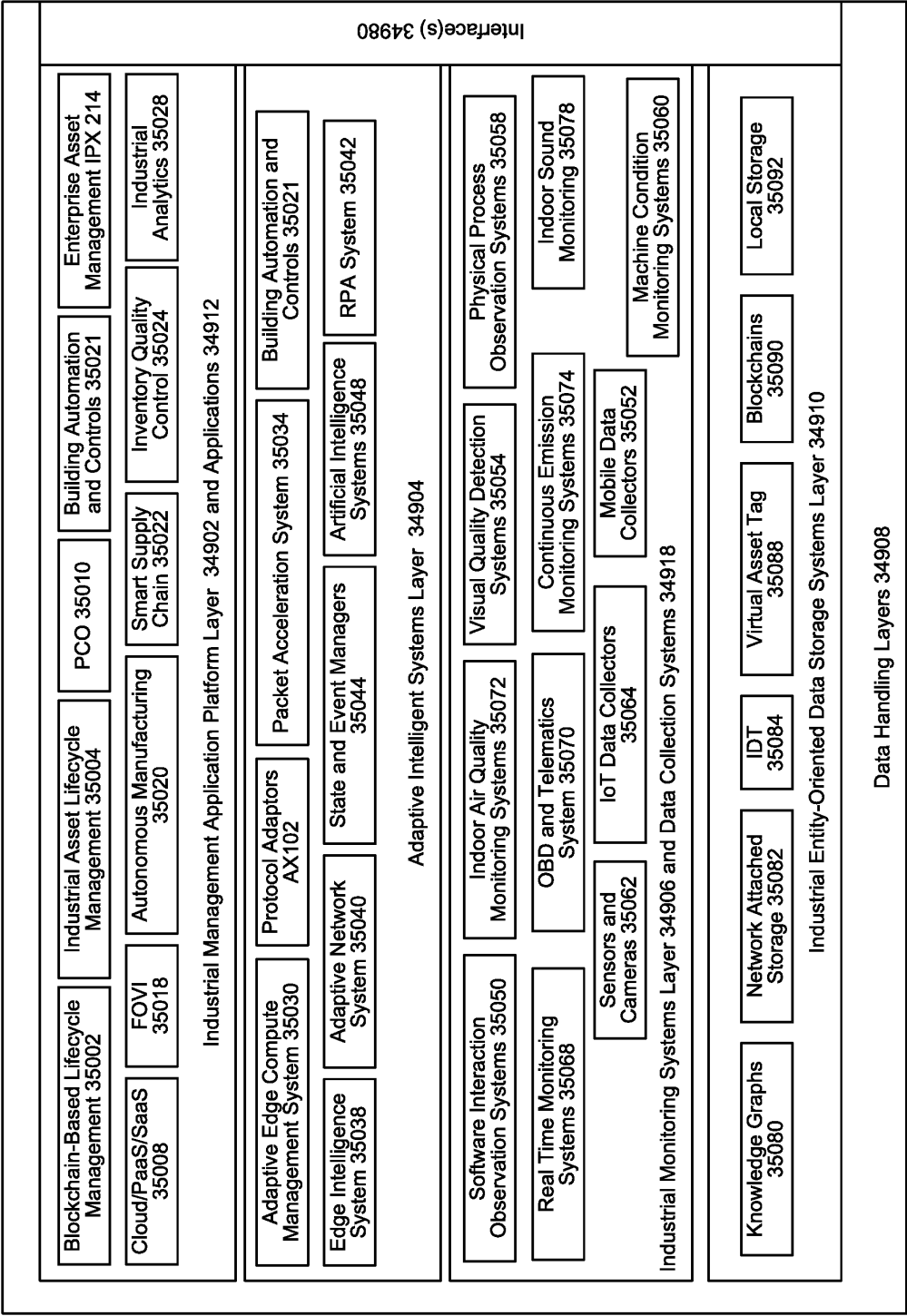


FIG. 203

203/233



204/233

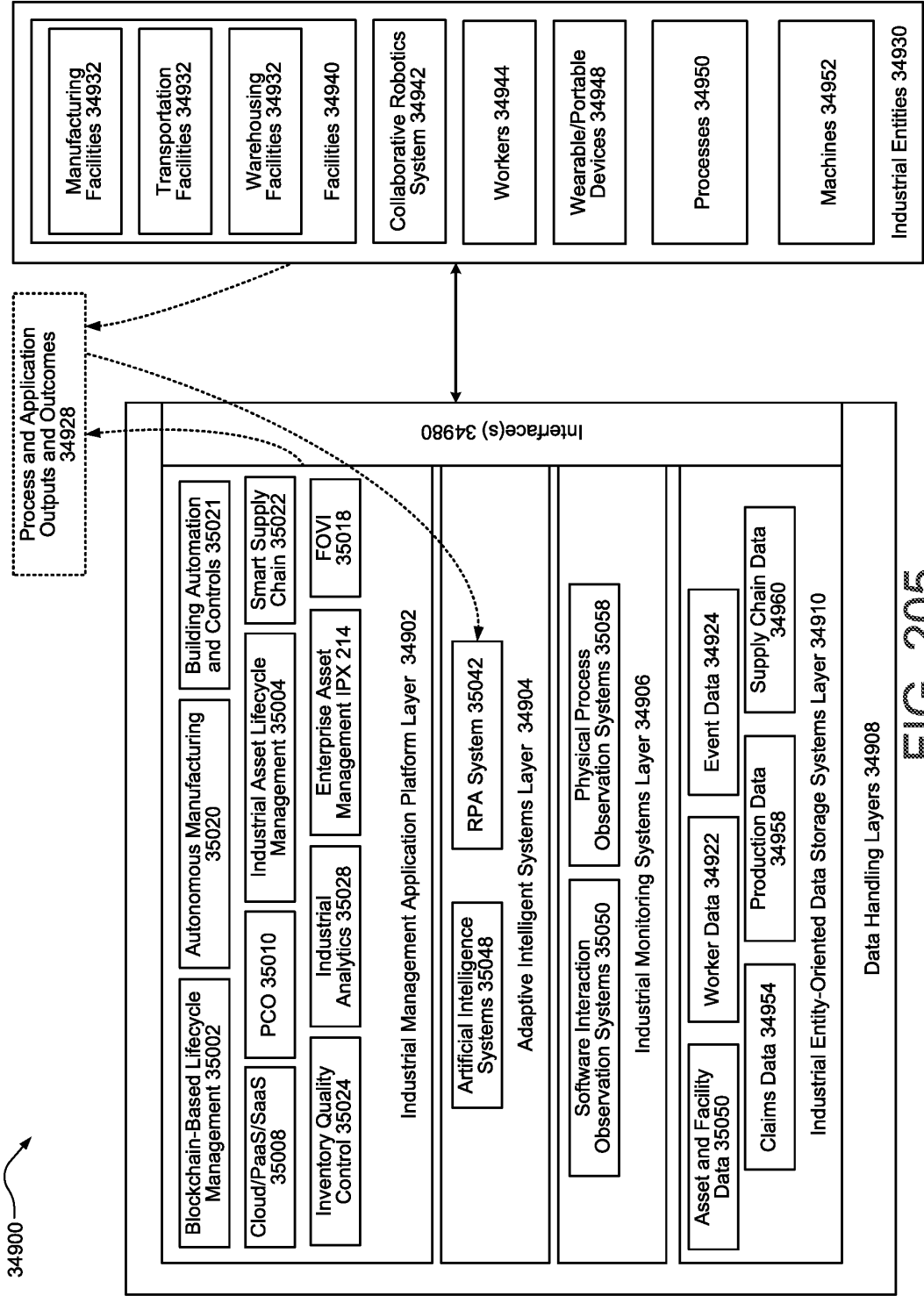


FIG. 205

205/233

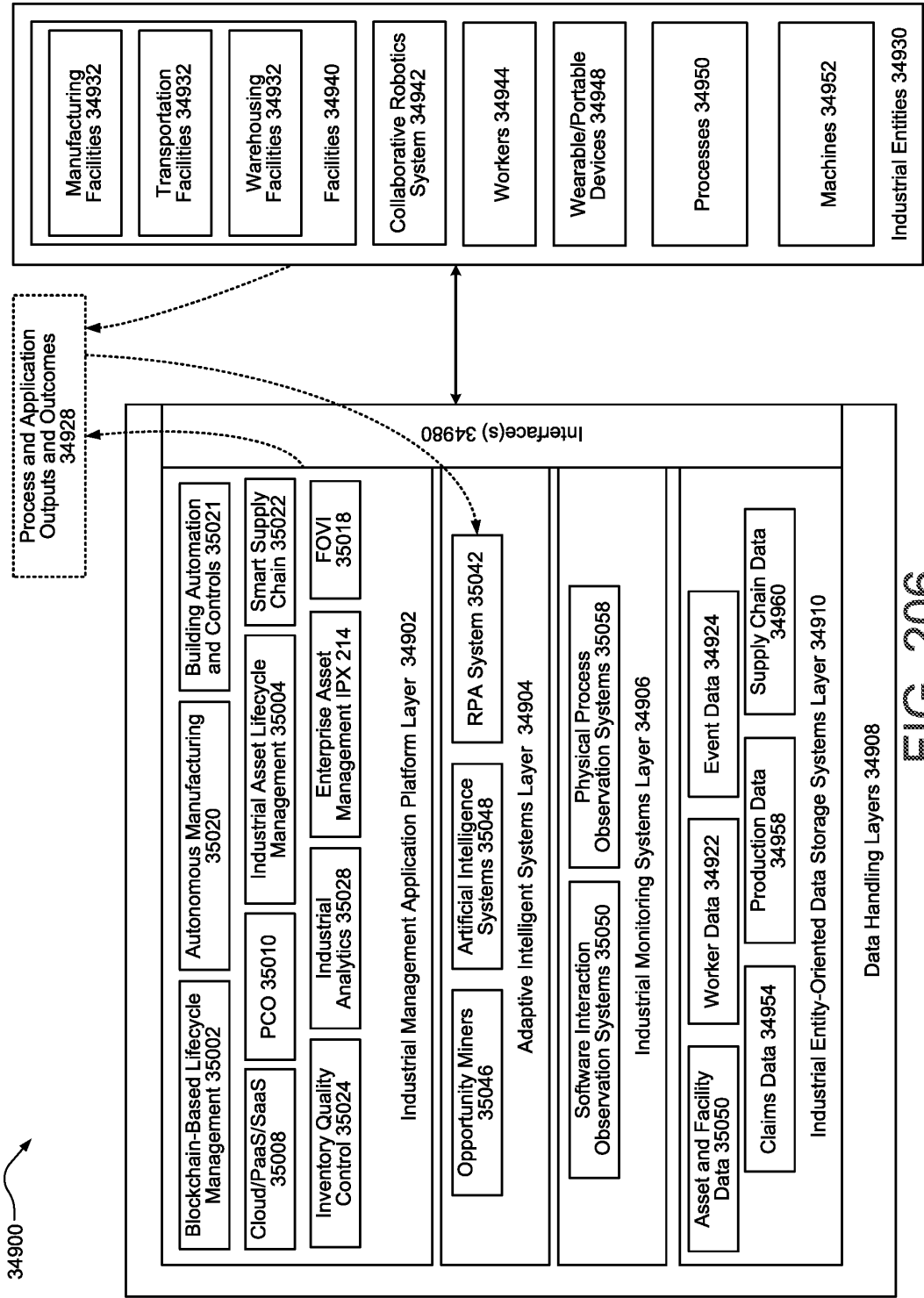


FIG. 206

206/233

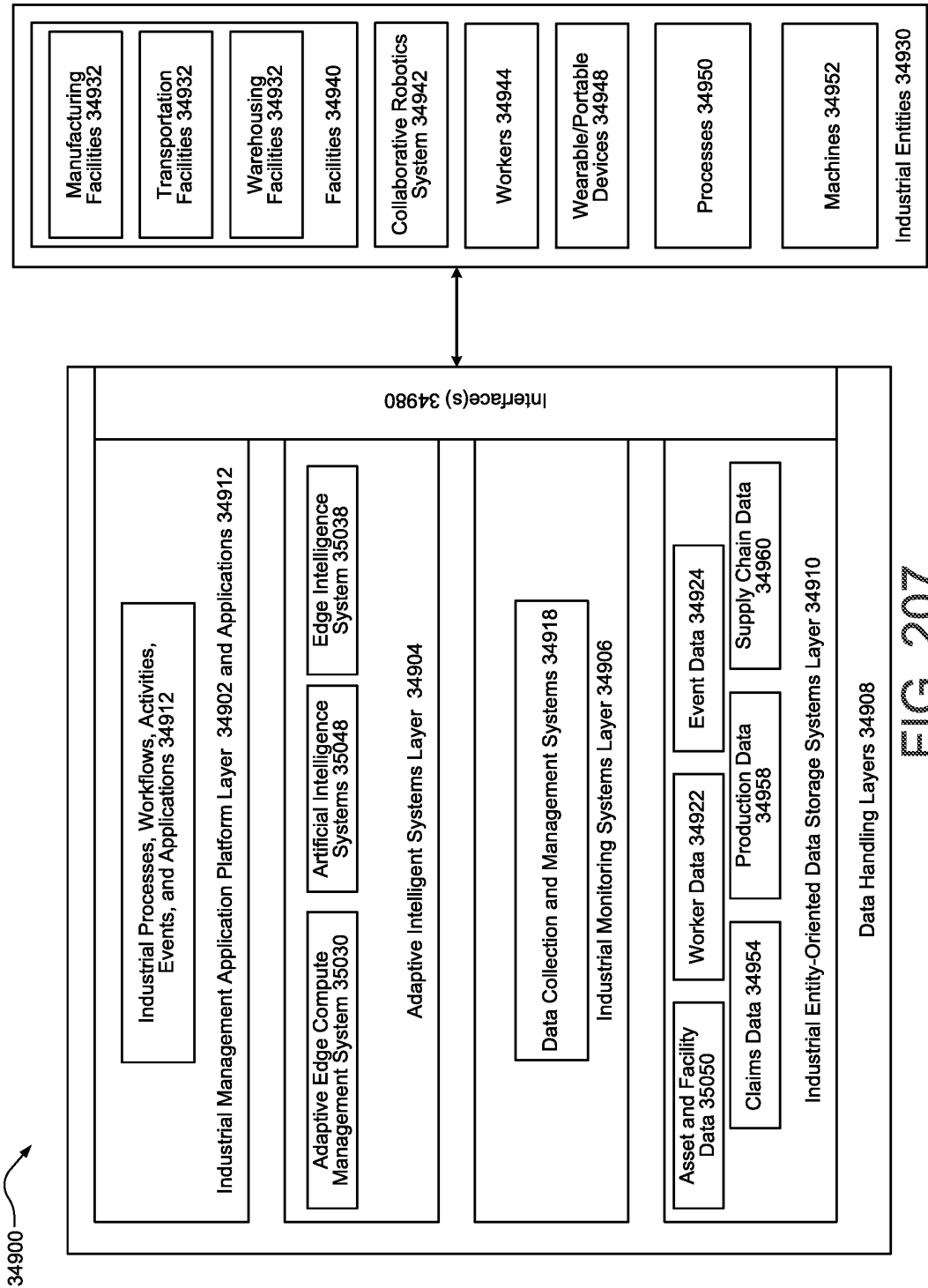


FIG. 207

207/233

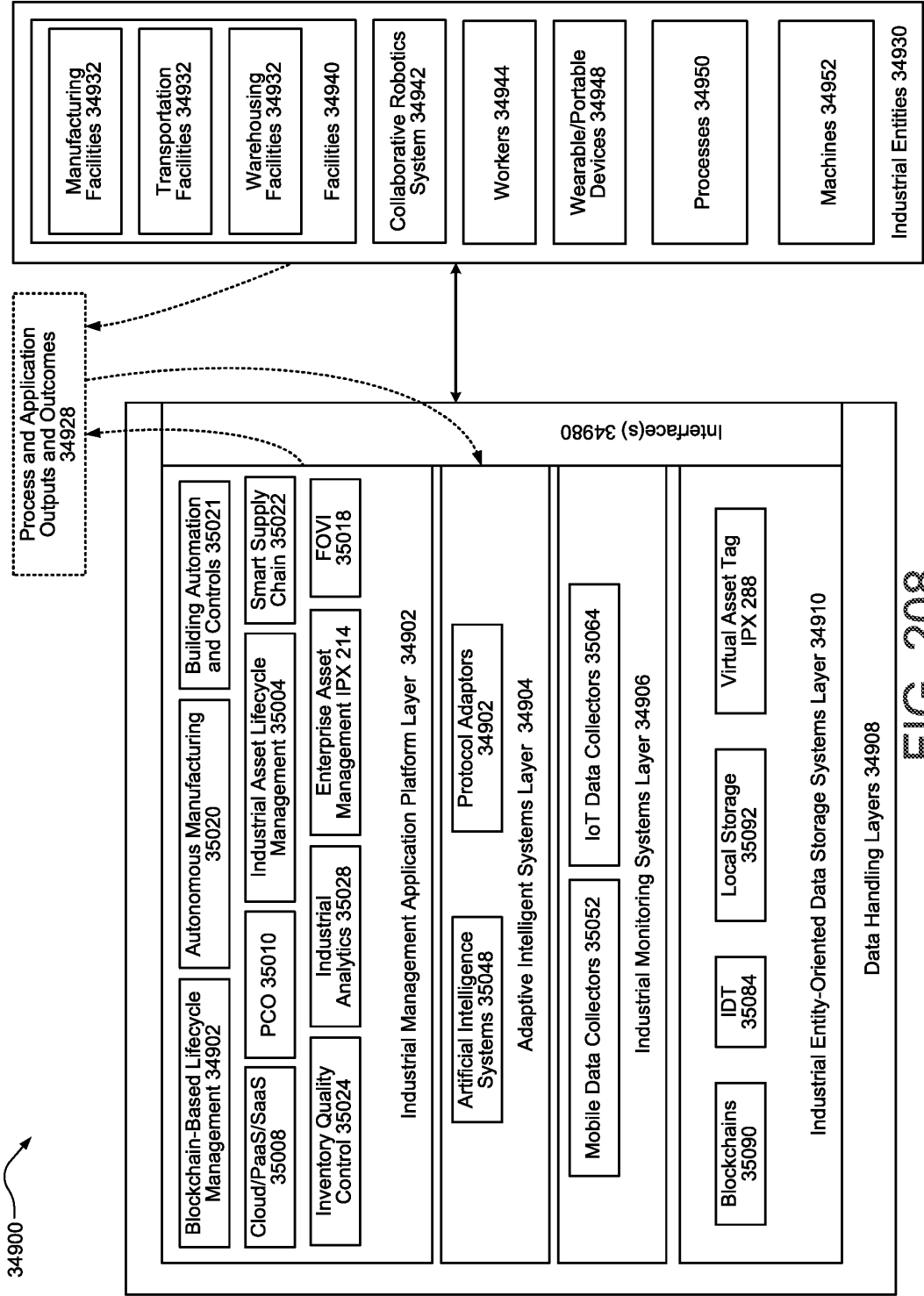


FIG. 208

208/233

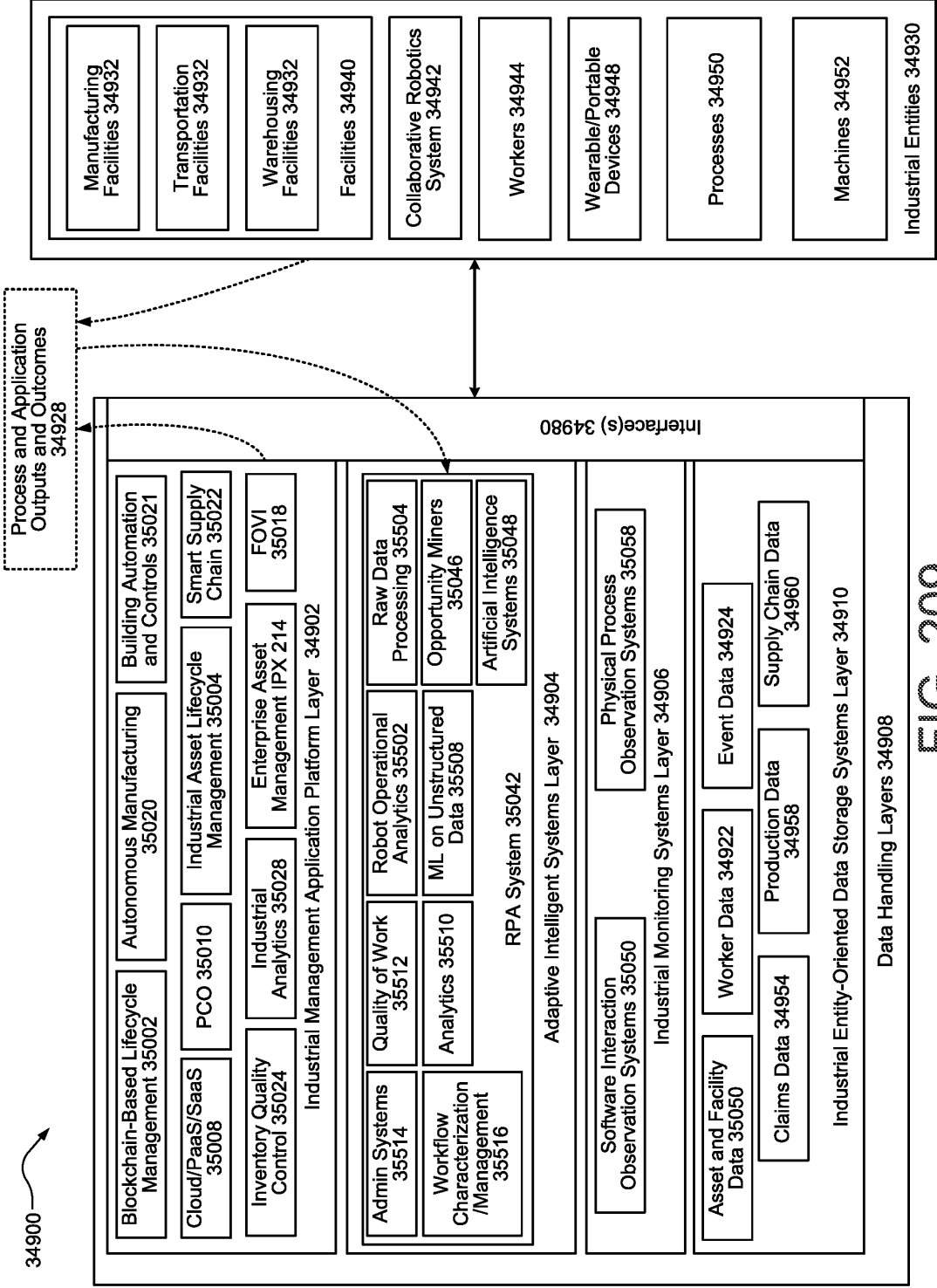


FIG. 209

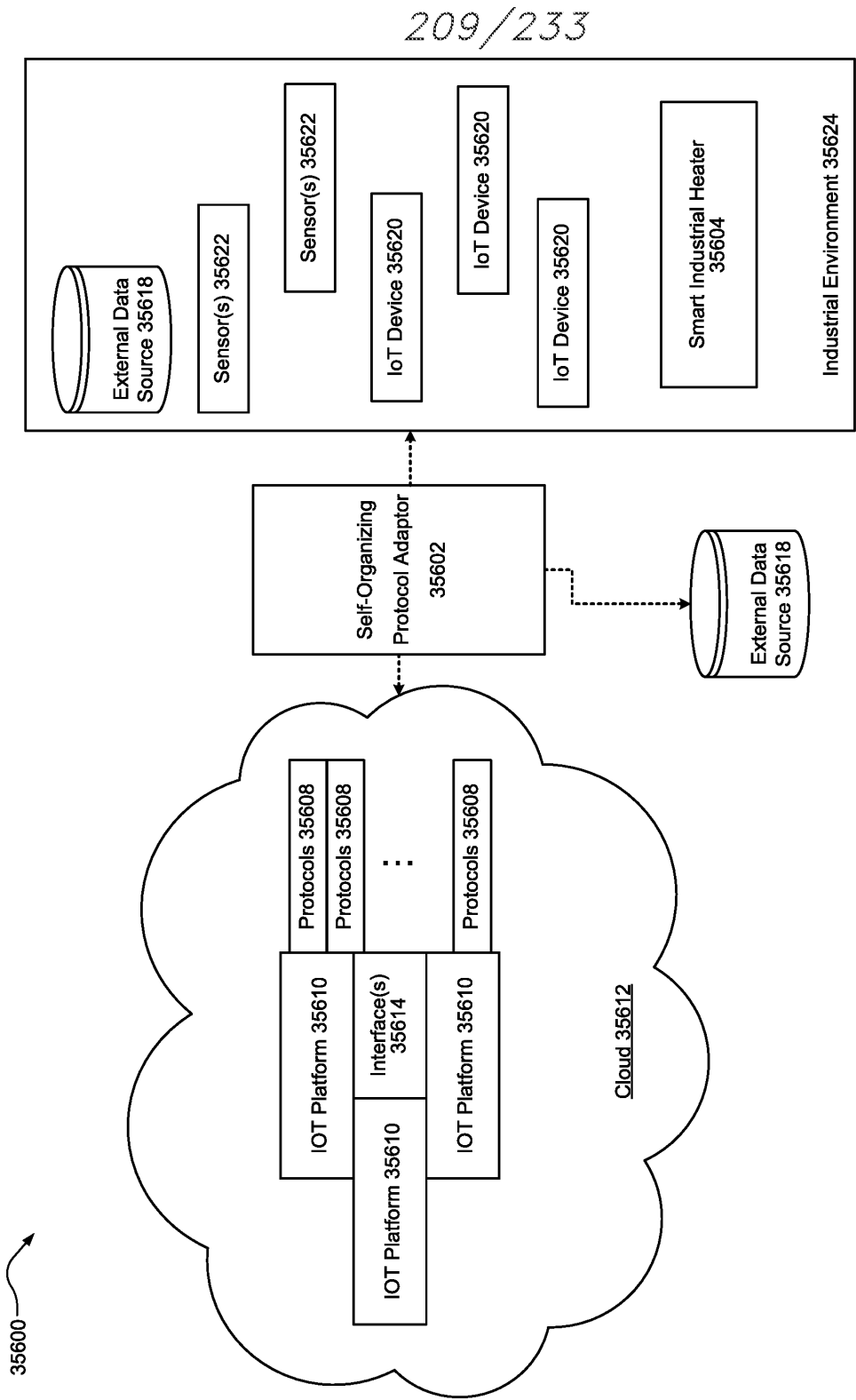


FIG. 210

210/233

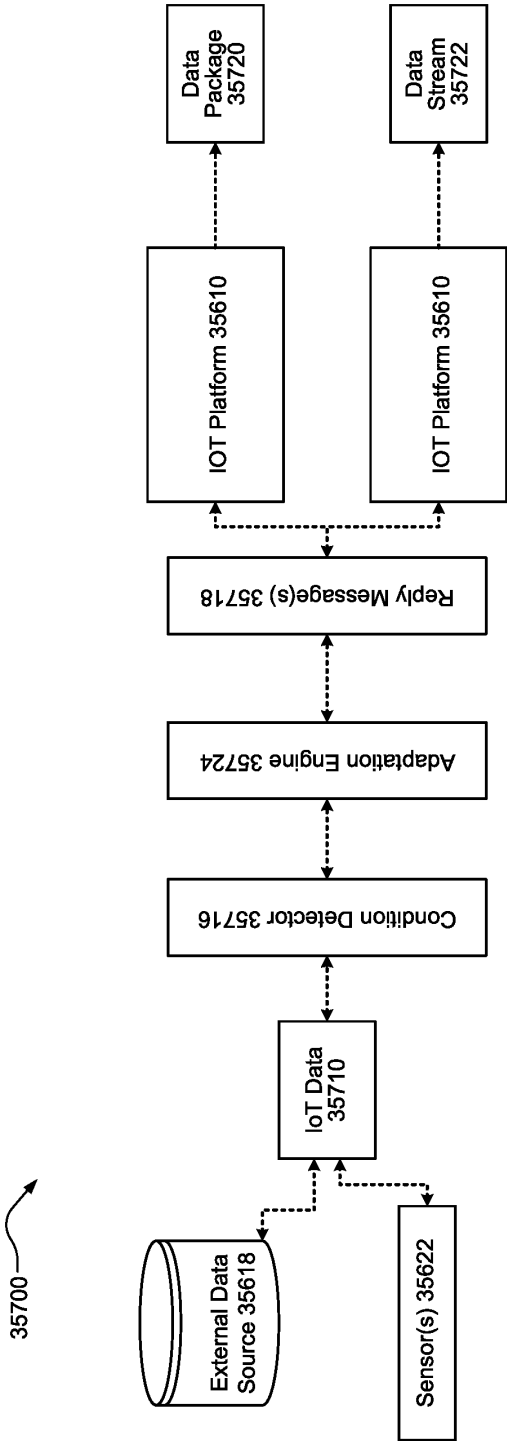


FIG. 211

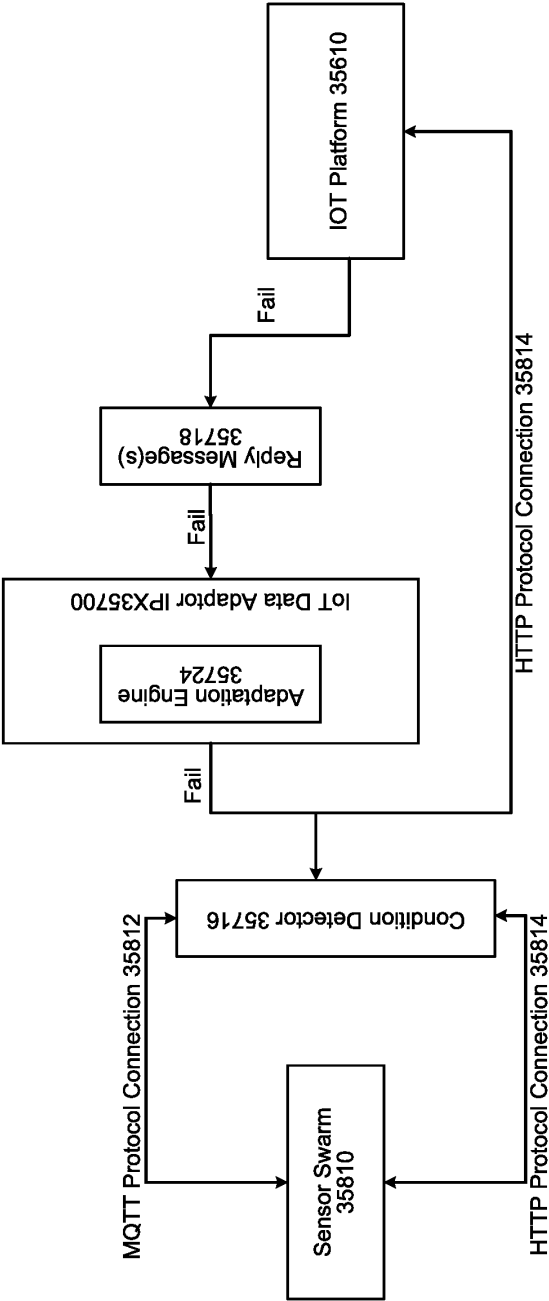


FIG. 212

213/233

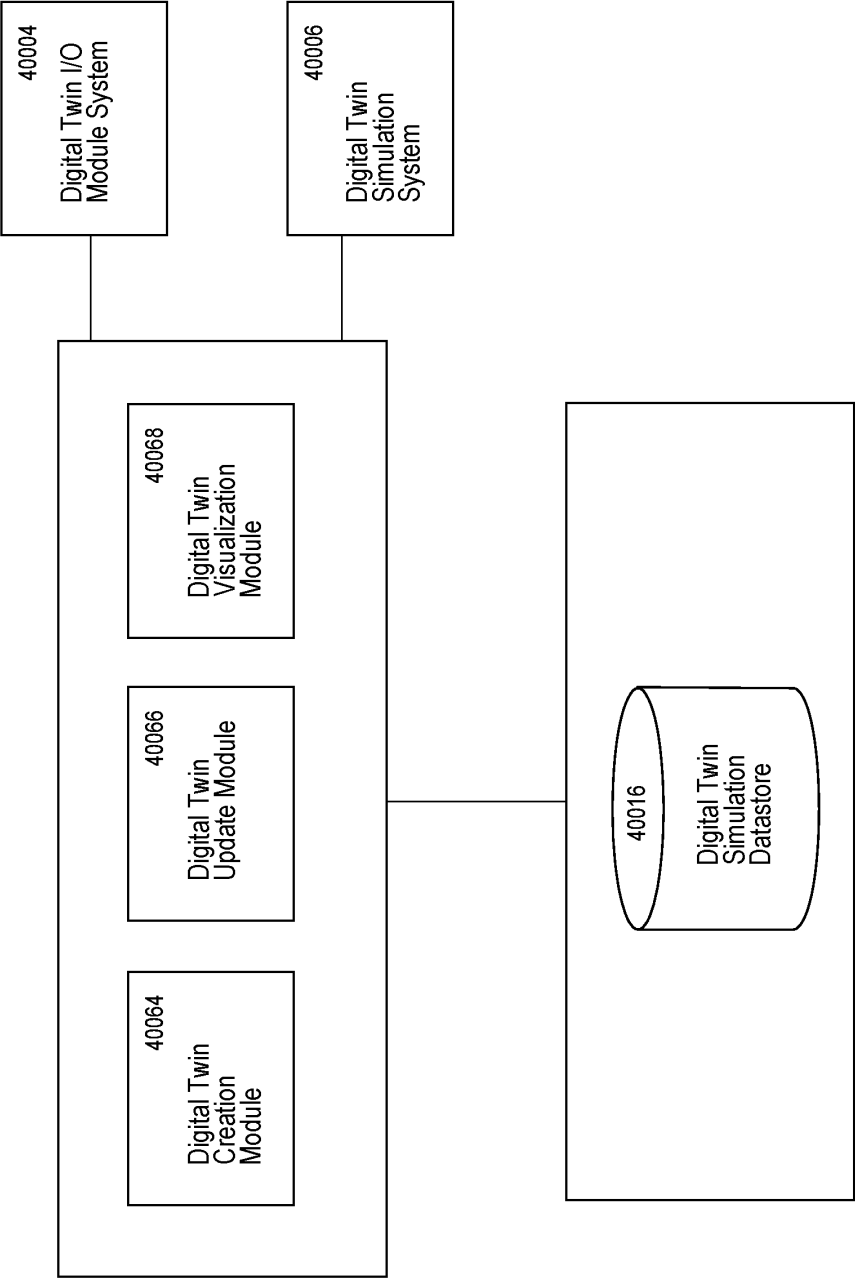


FIG. 214

214/233

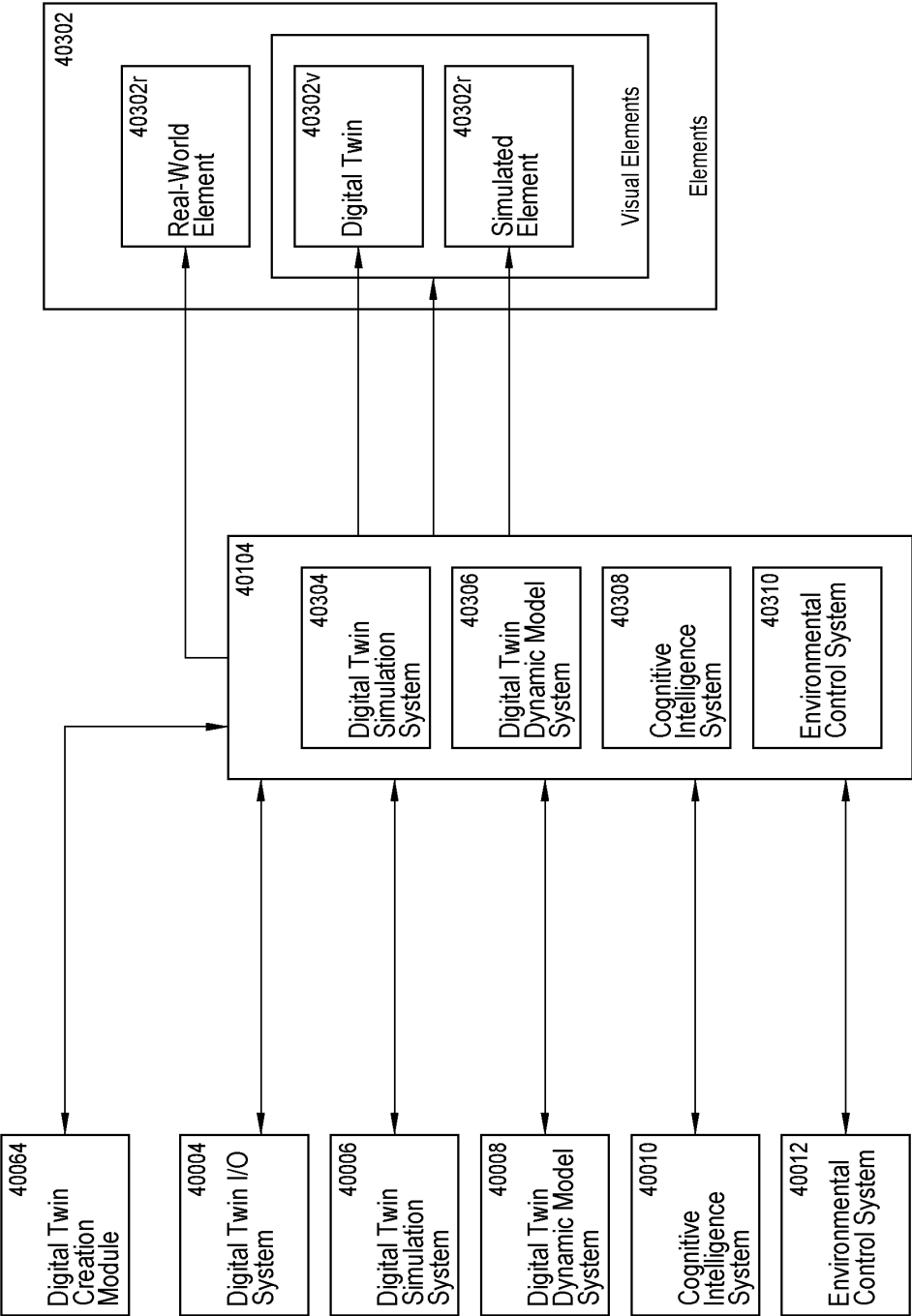


FIG. 215

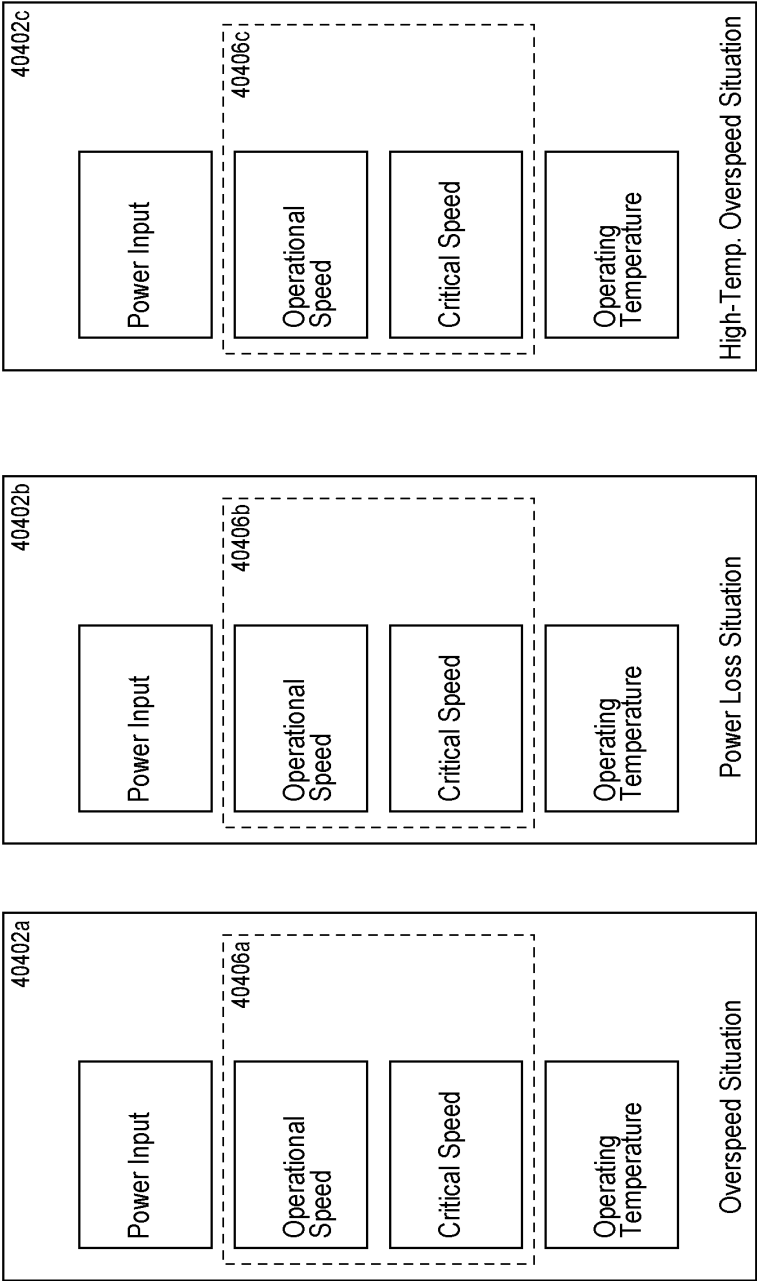


FIG. 216

216/233

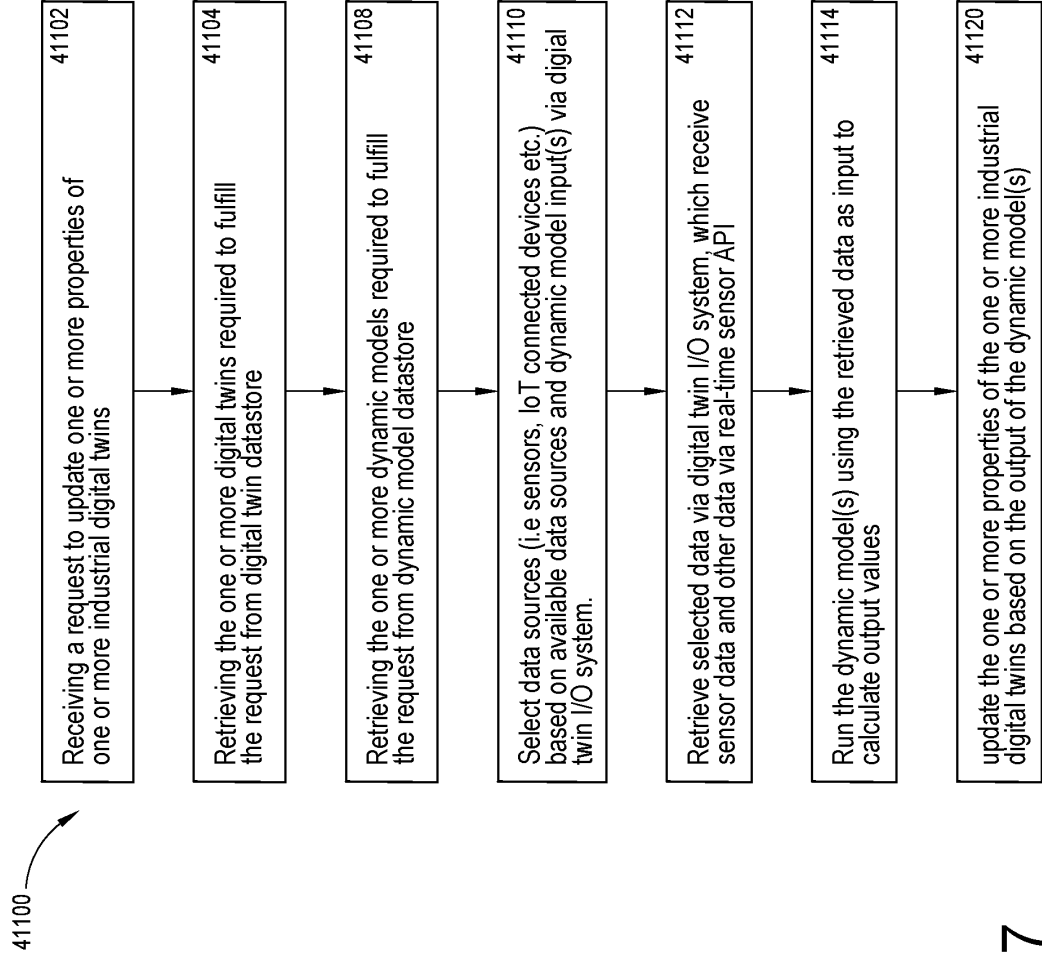


FIG. 217

217/233

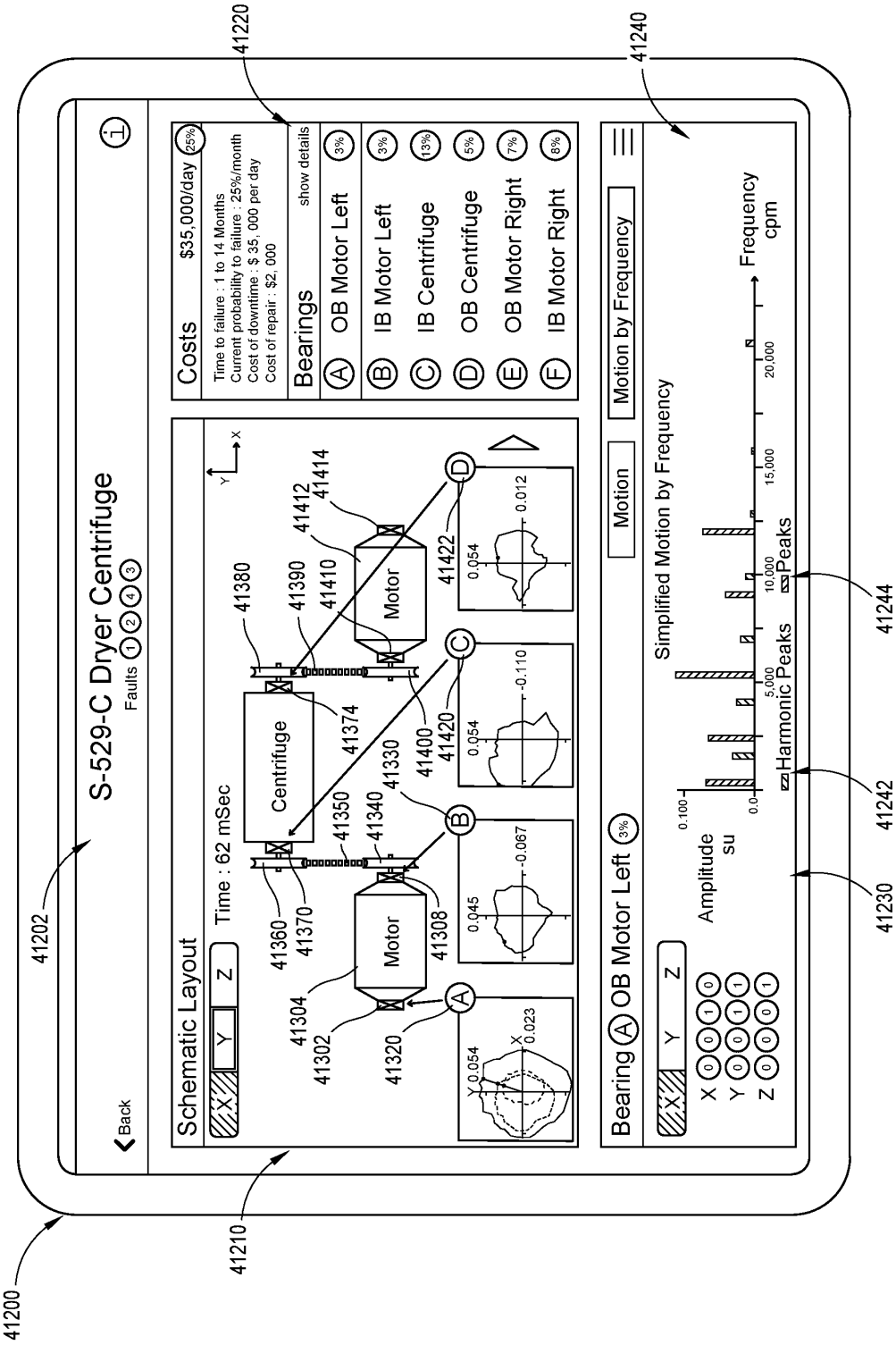


FIG. 218

218/233

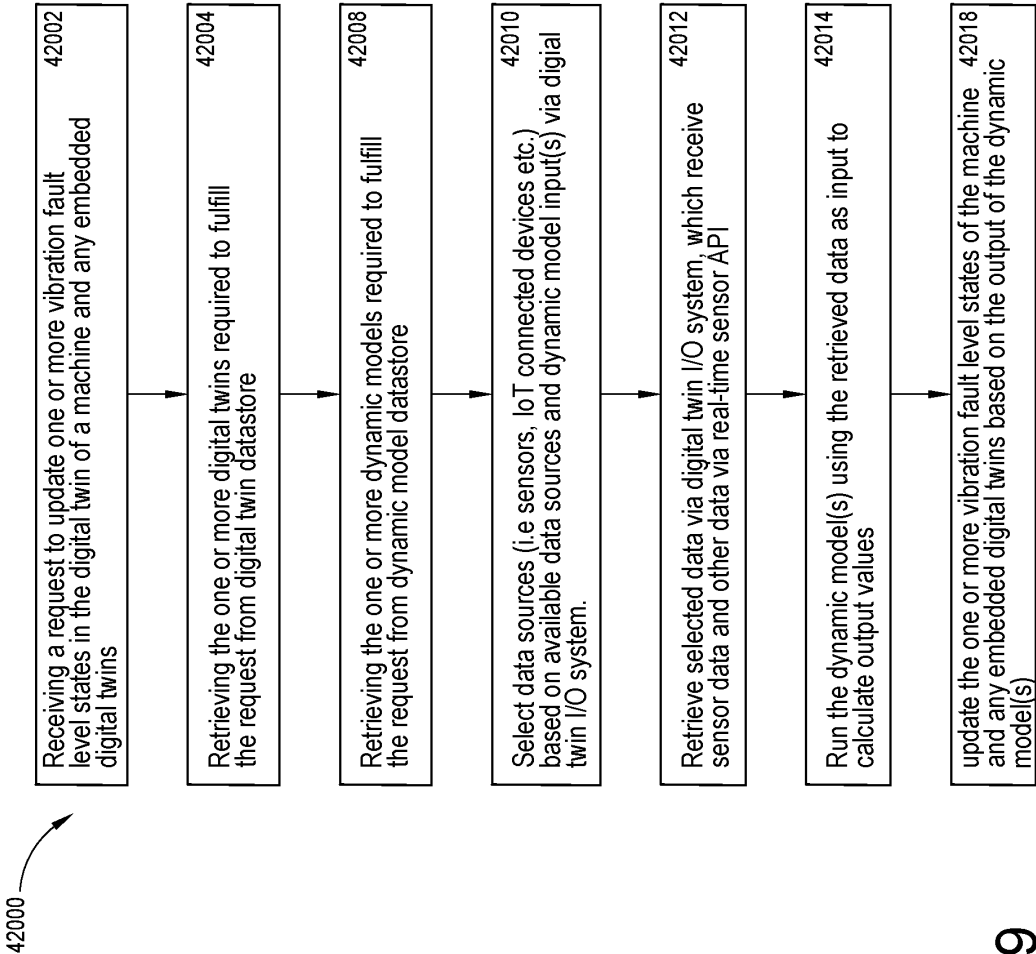


FIG. 219

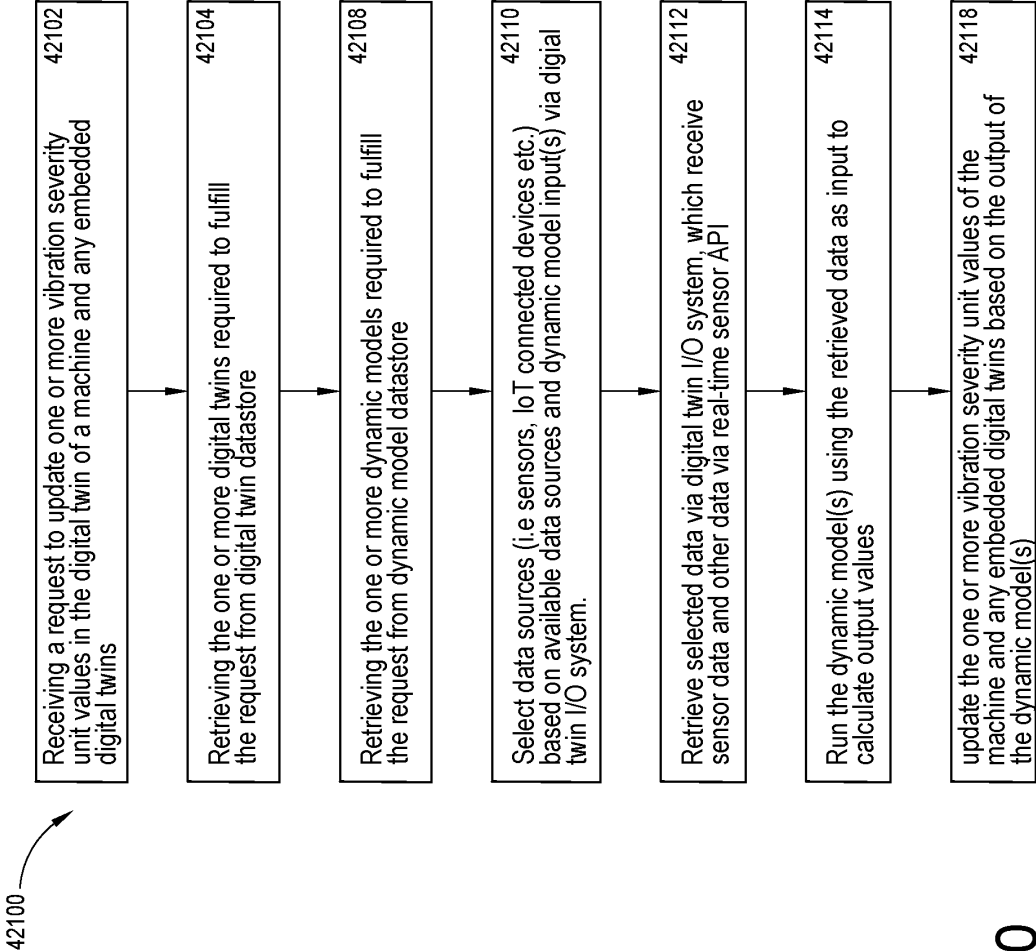


FIG. 220

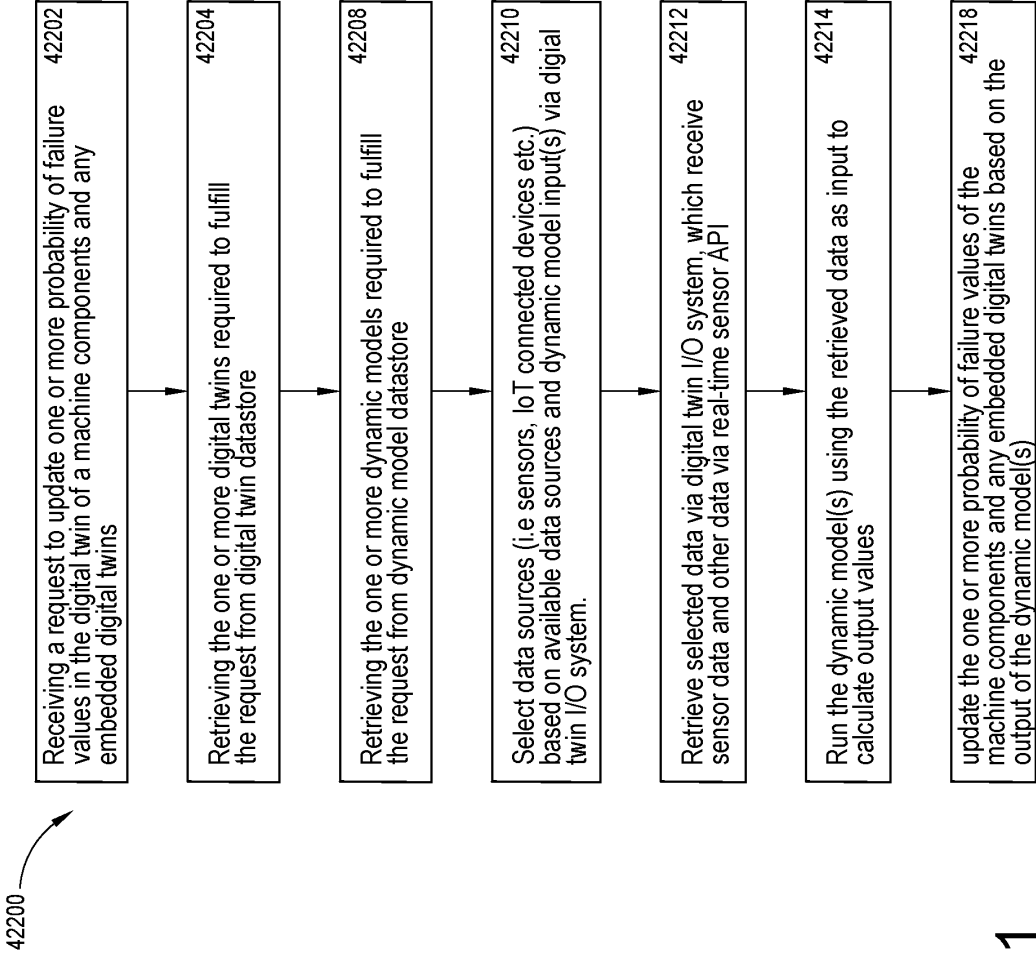


FIG. 221

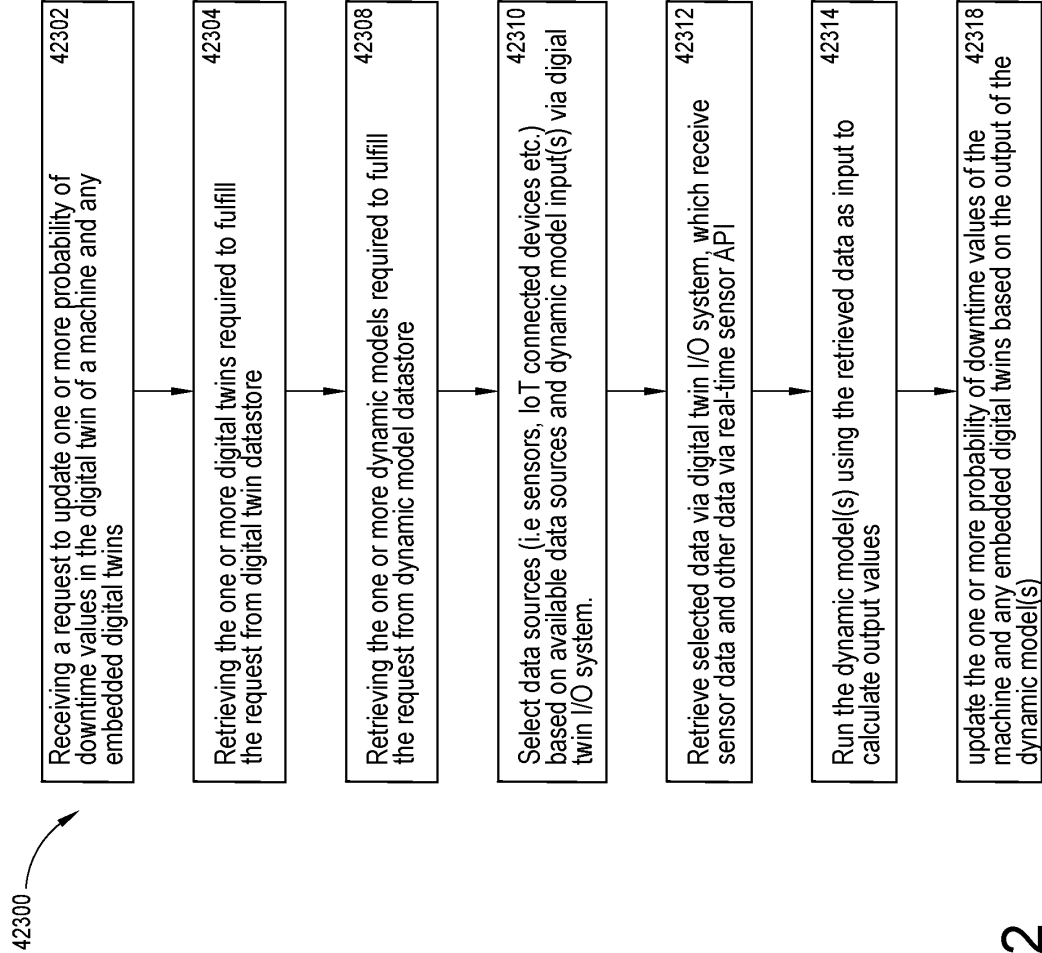


FIG. 222

222/233

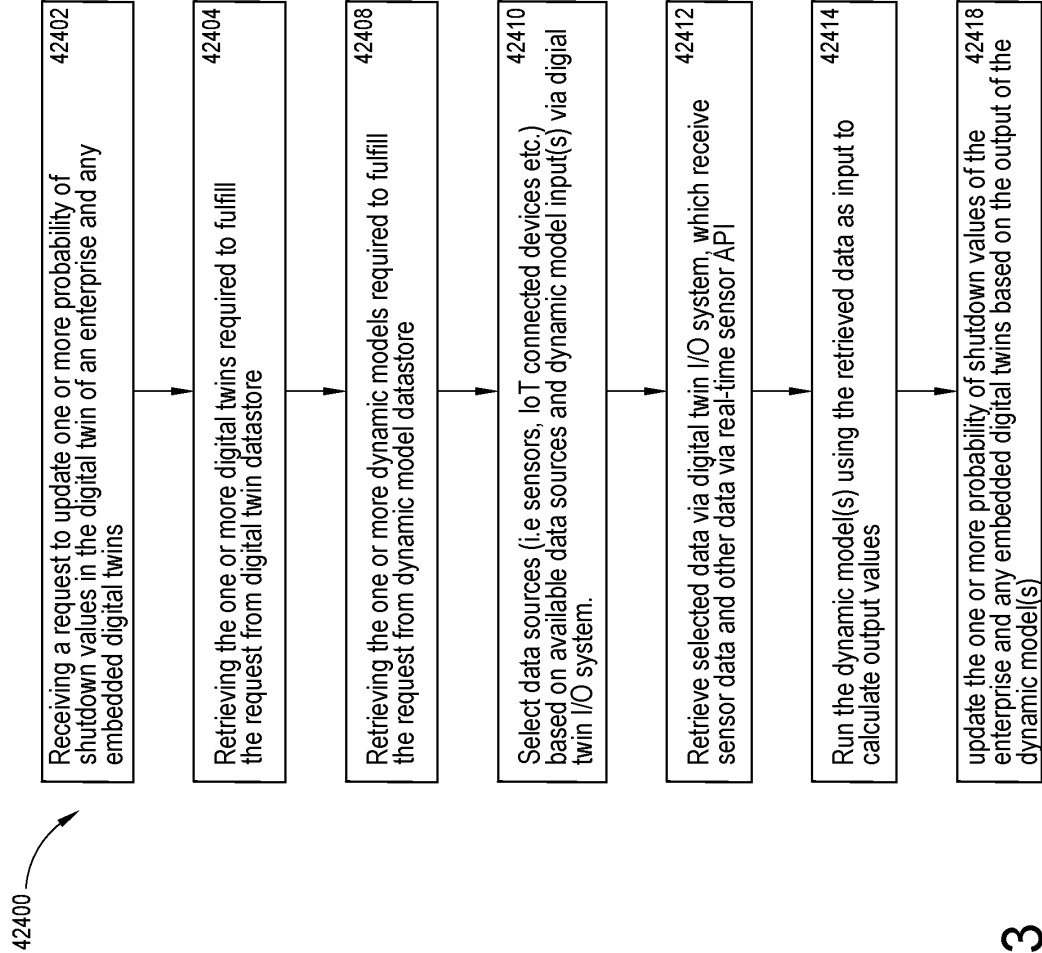


FIG. 223

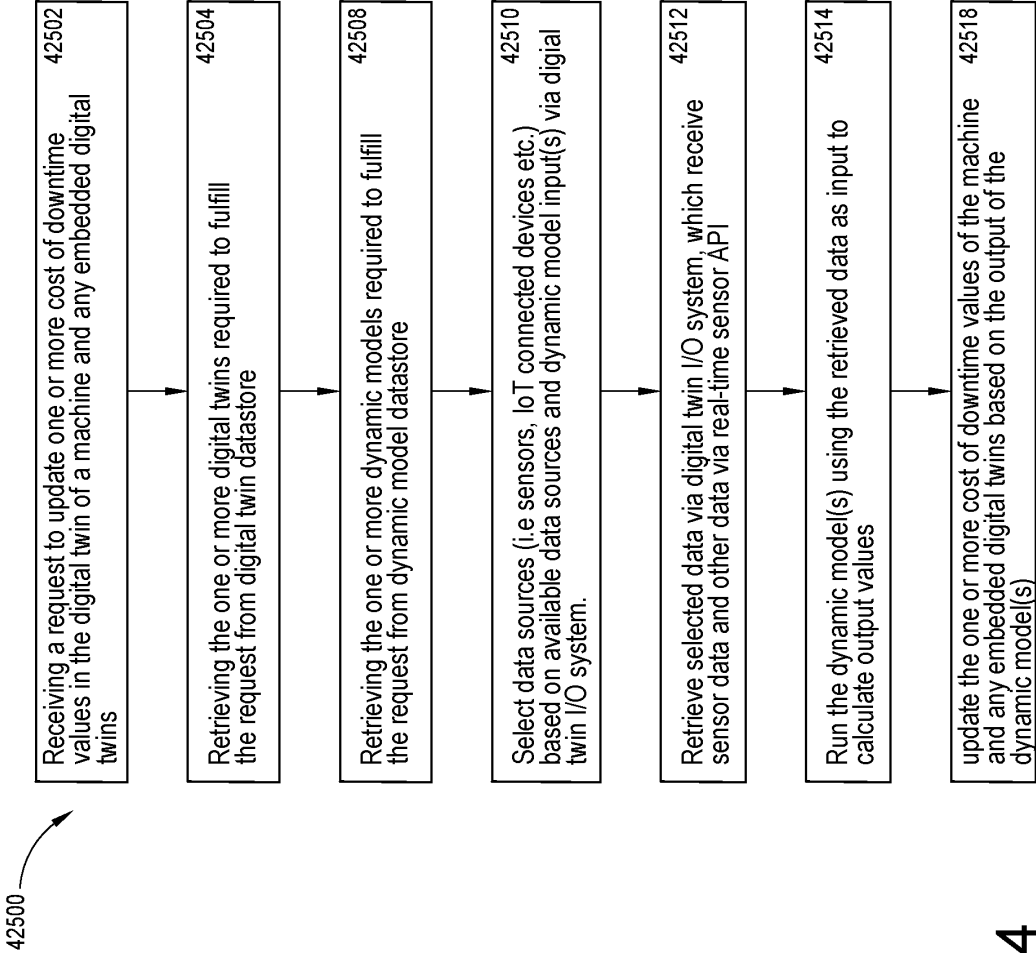


FIG. 224

224/233

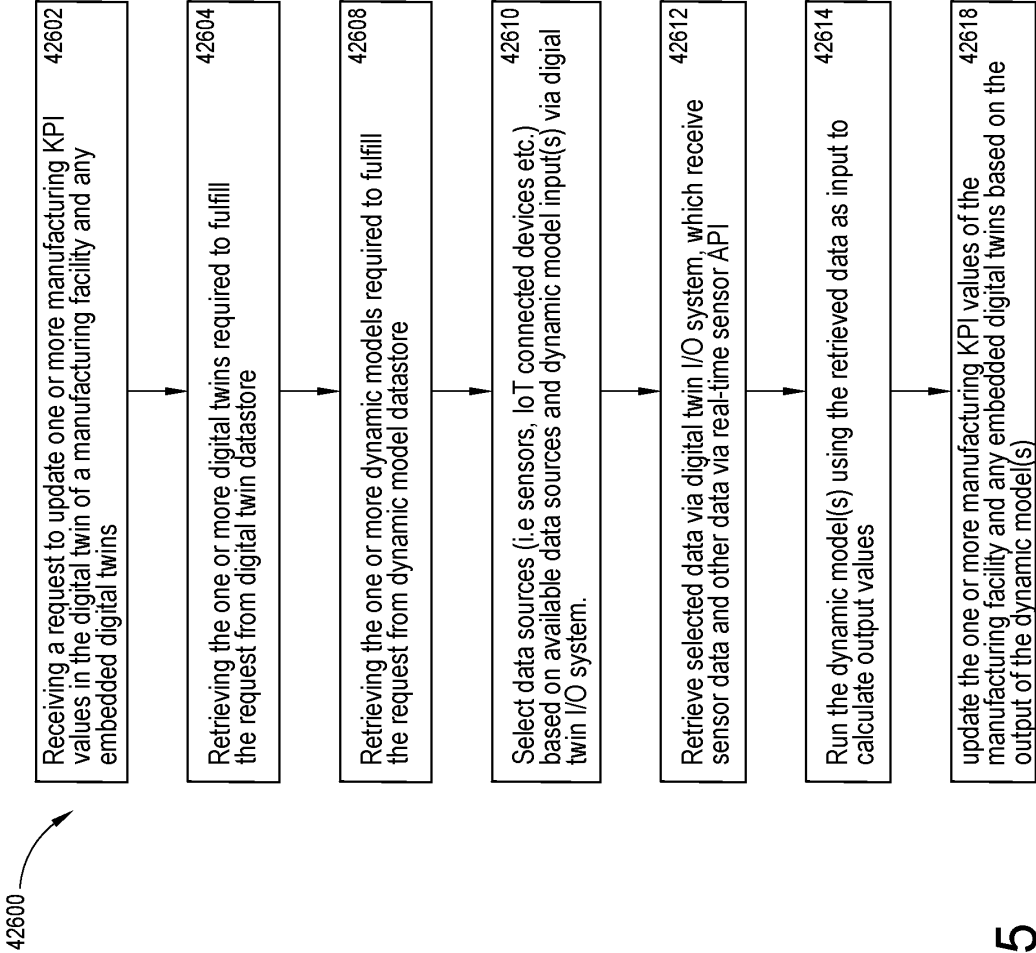


FIG. 225

225/233

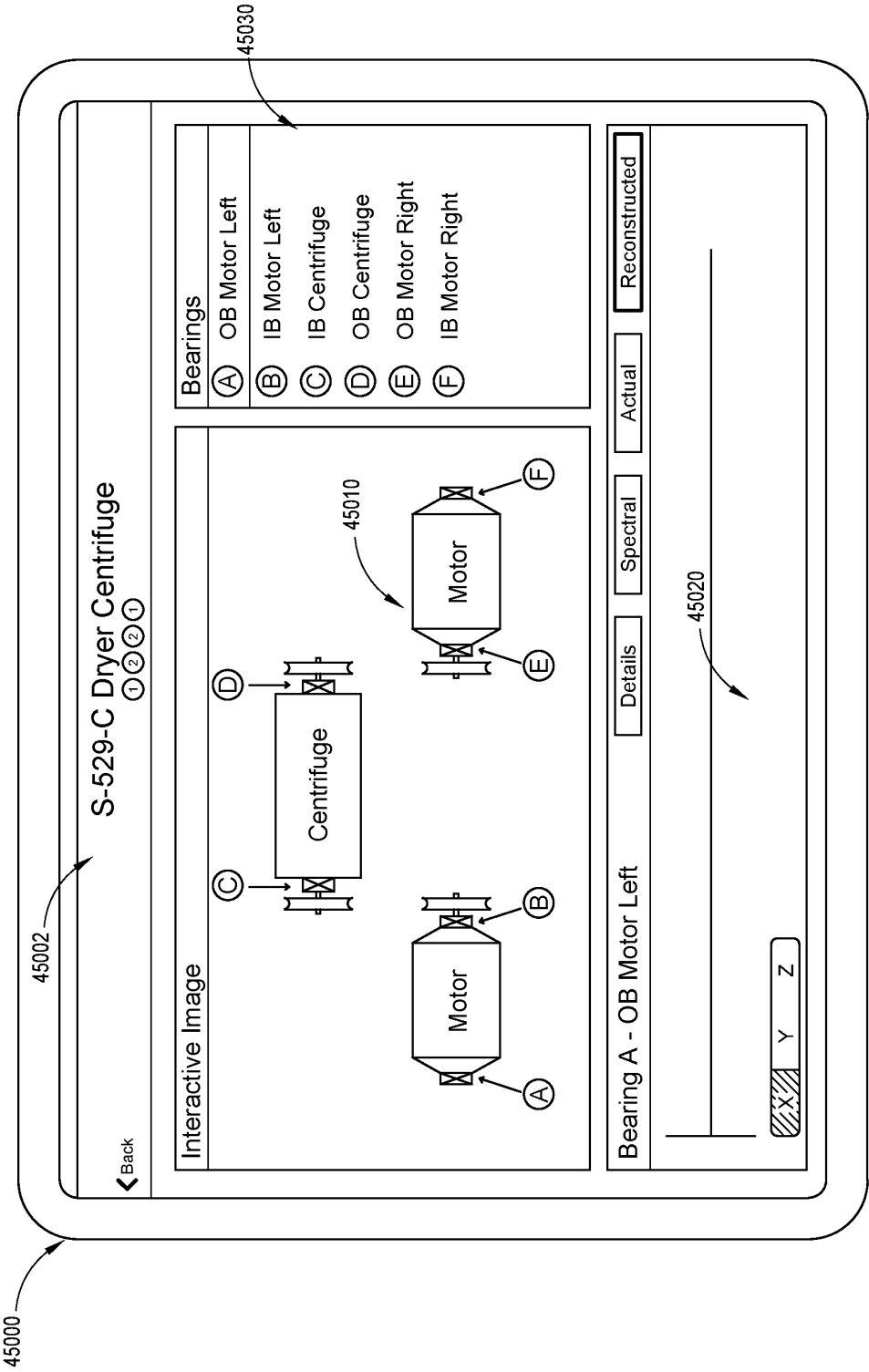


FIG. 226

226/233

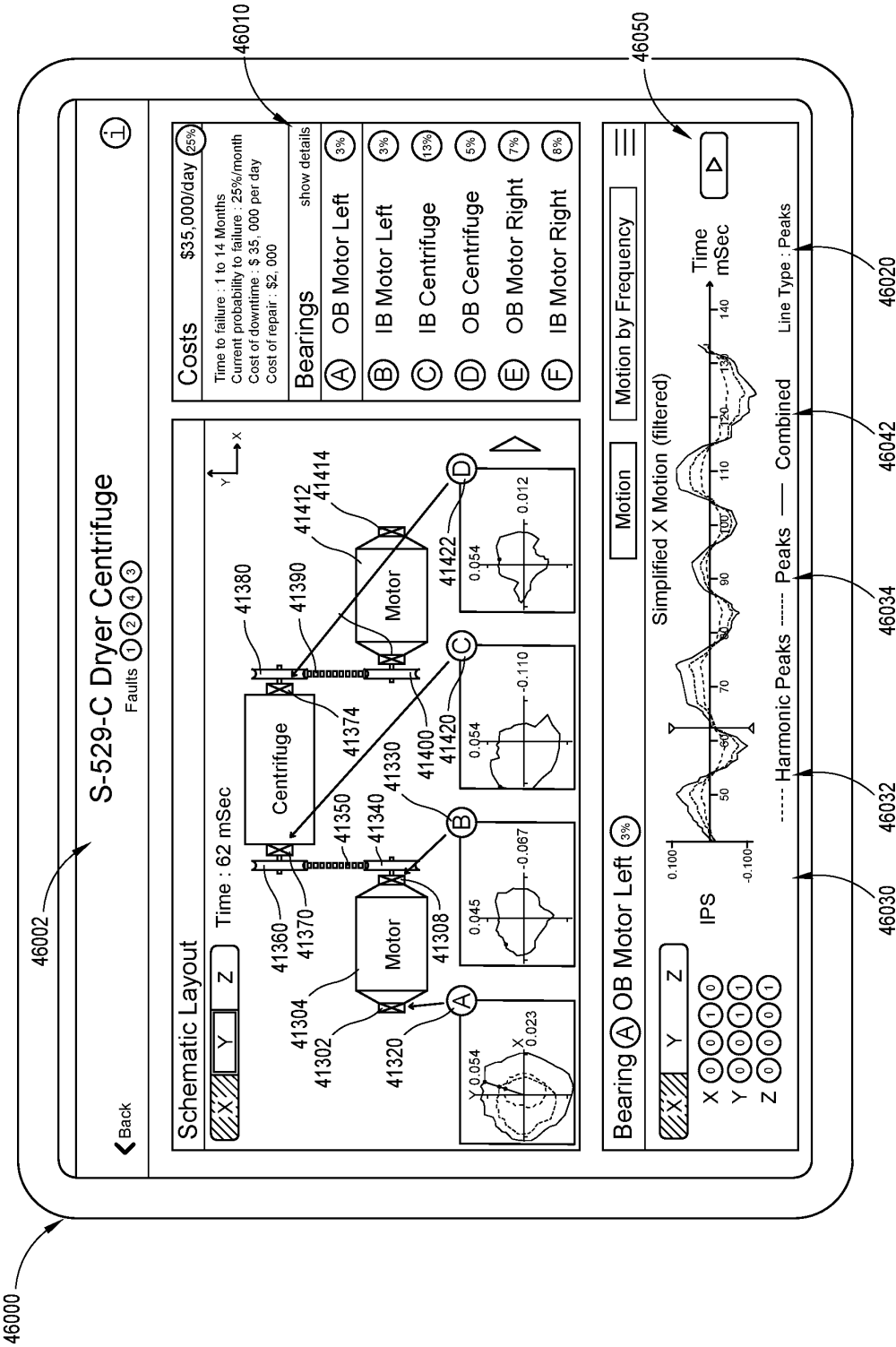


FIG. 227

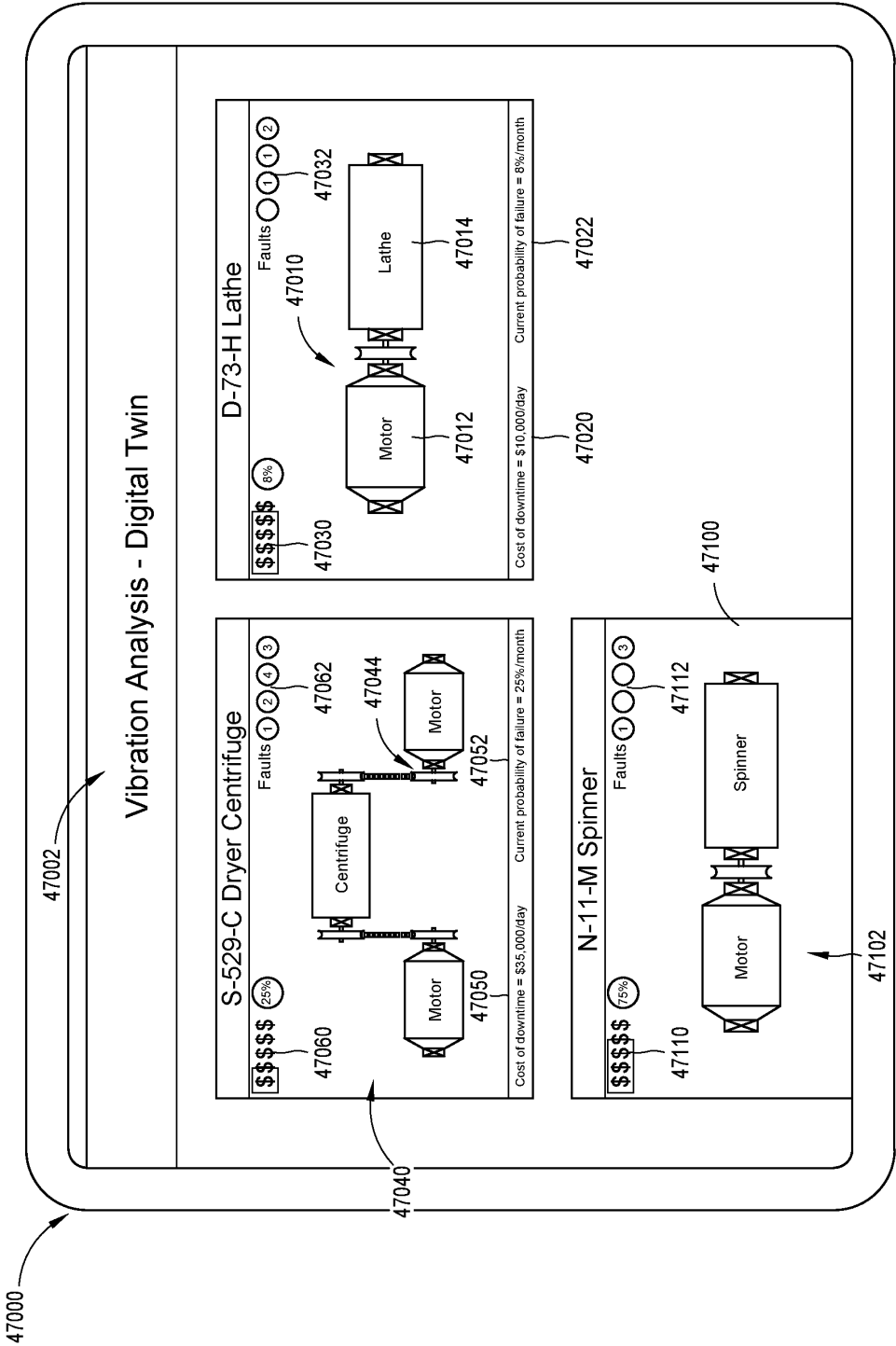


FIG. 228

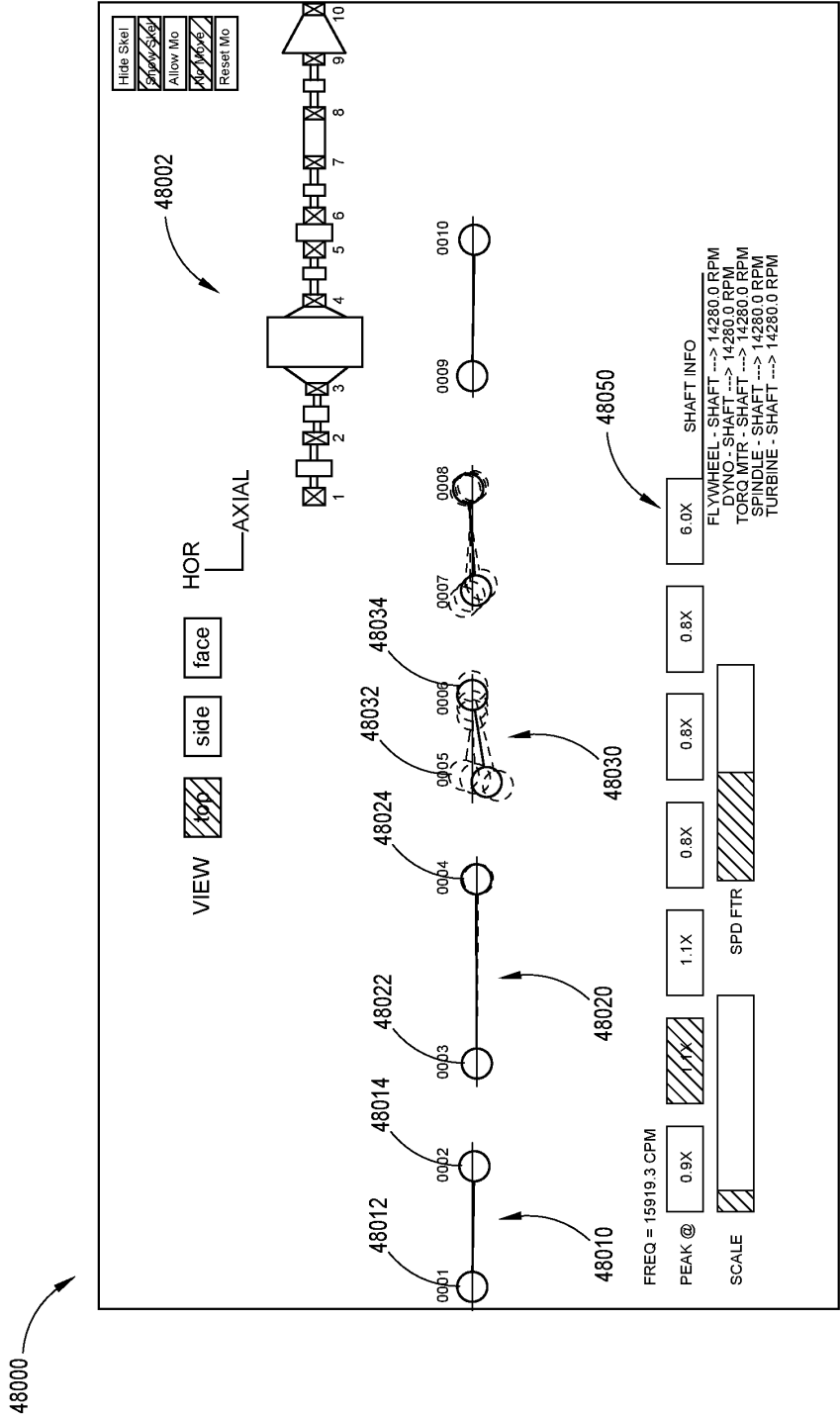


FIG. 229

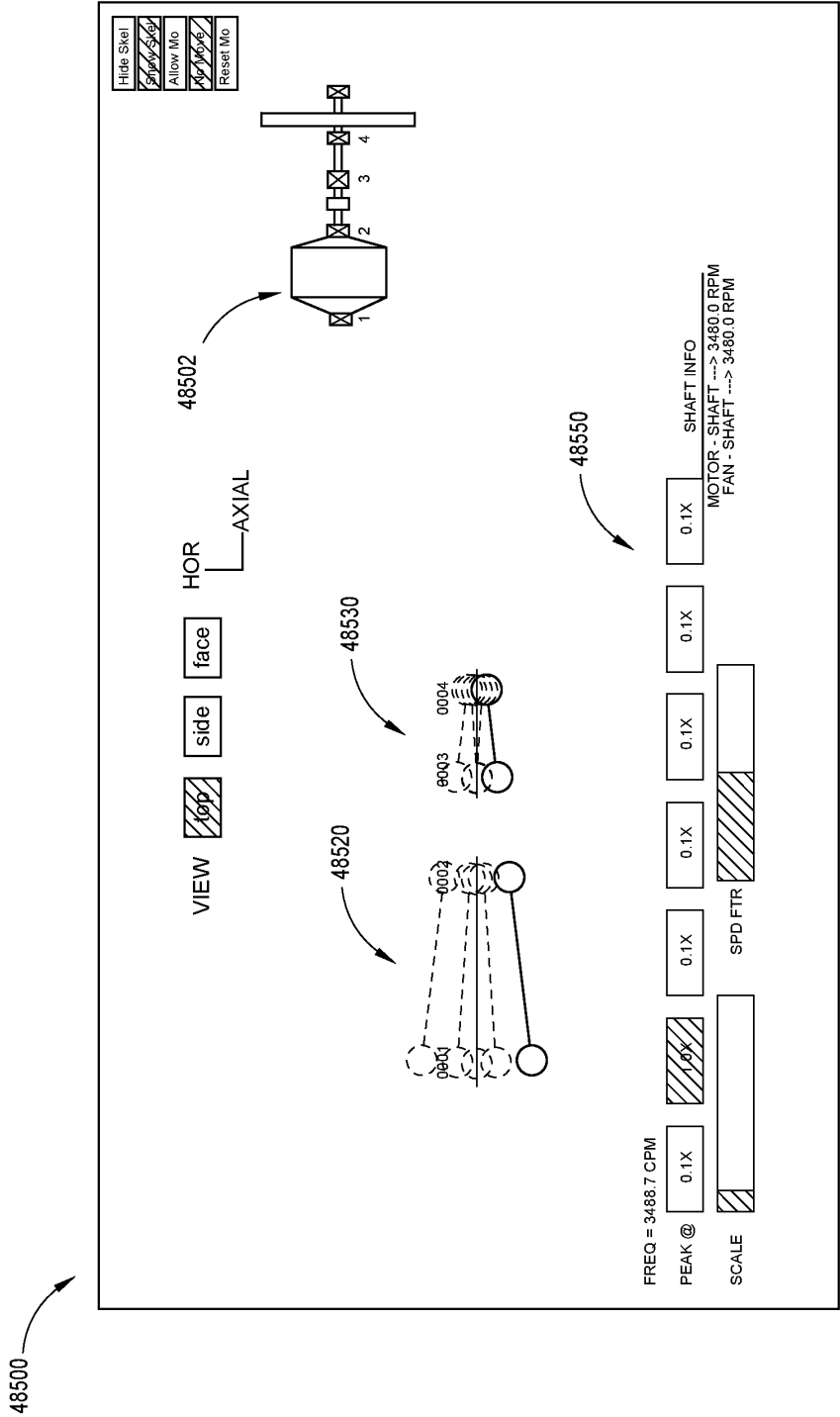


FIG. 230

230/233

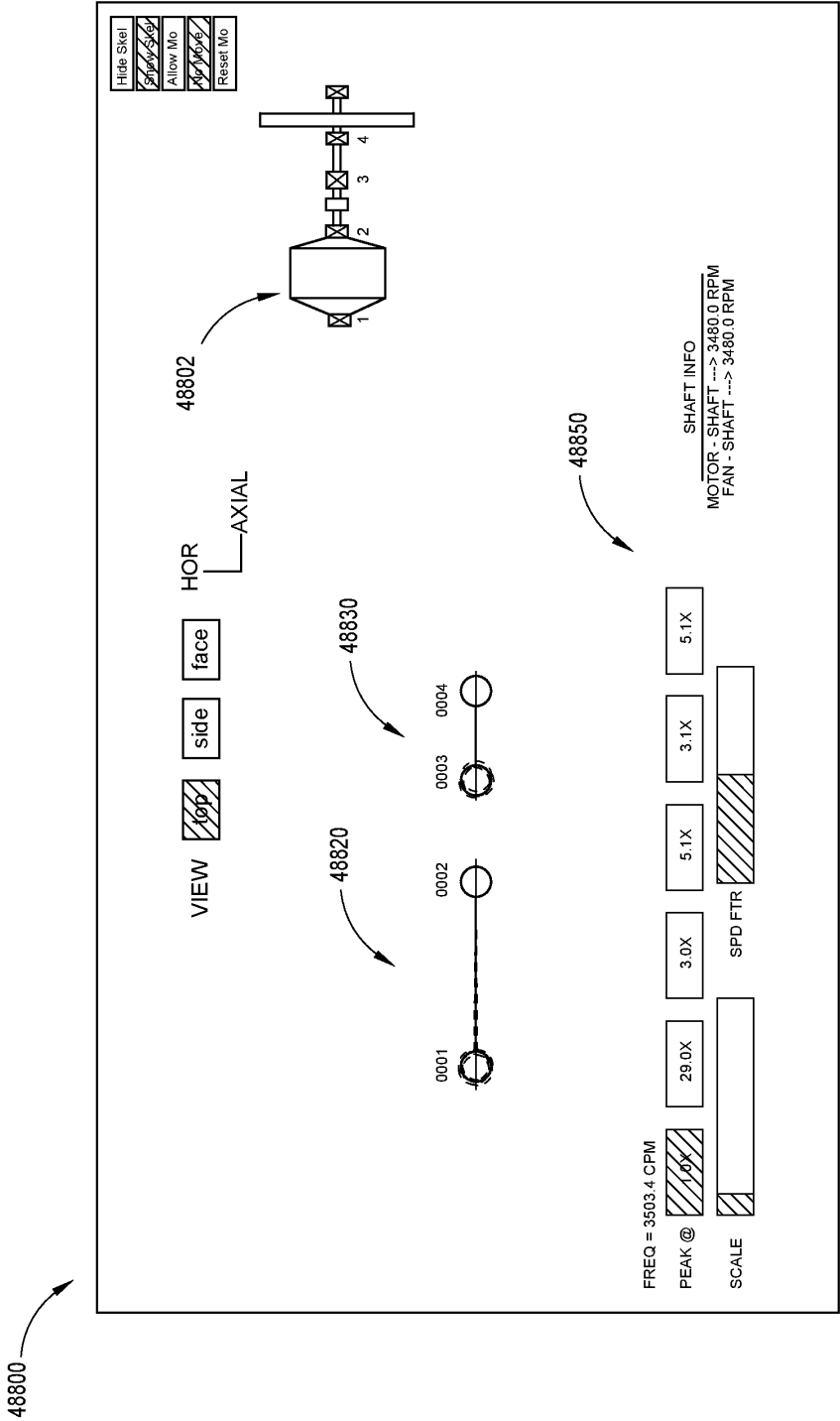
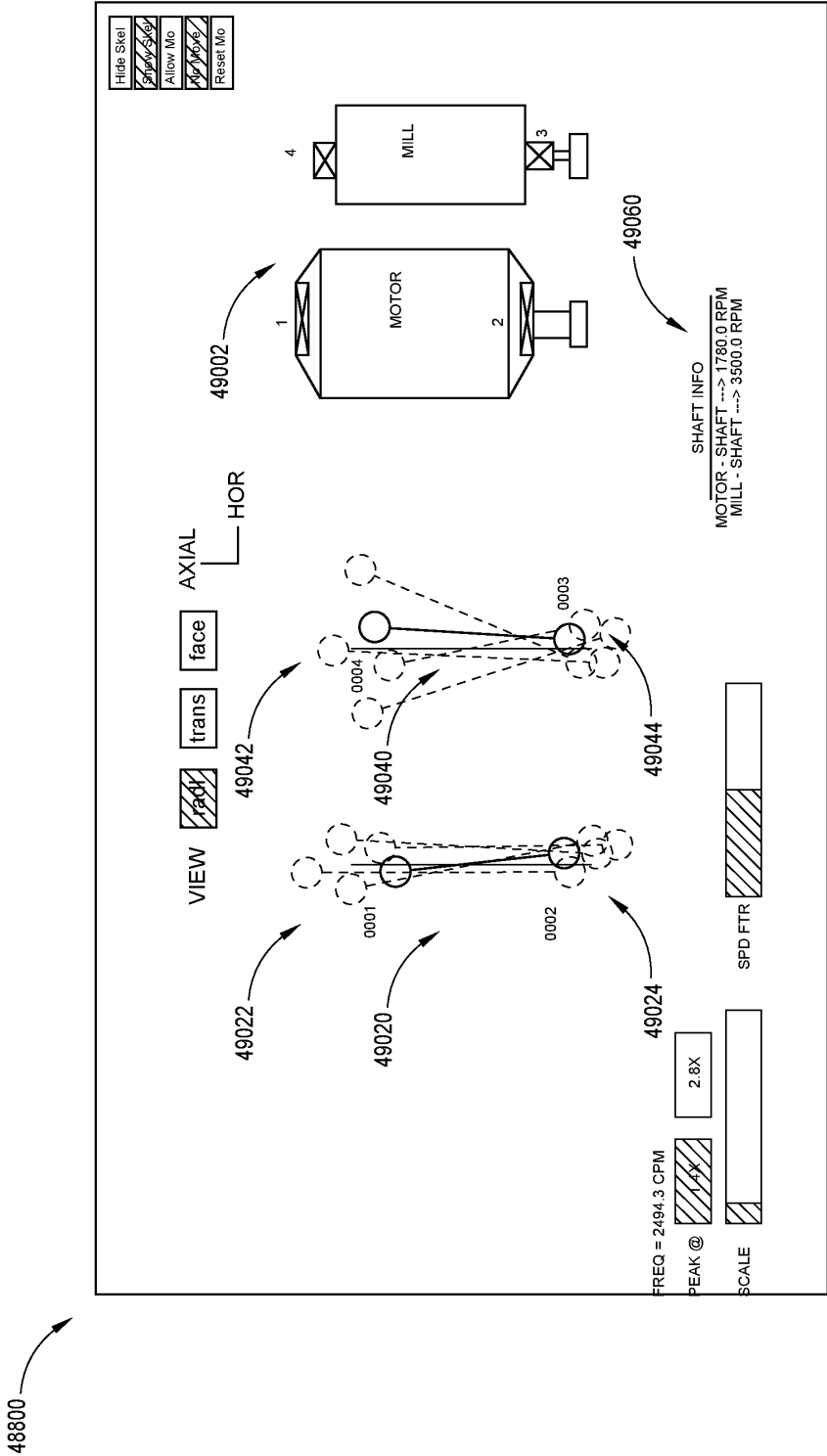


FIG. 231

231/233



232/233

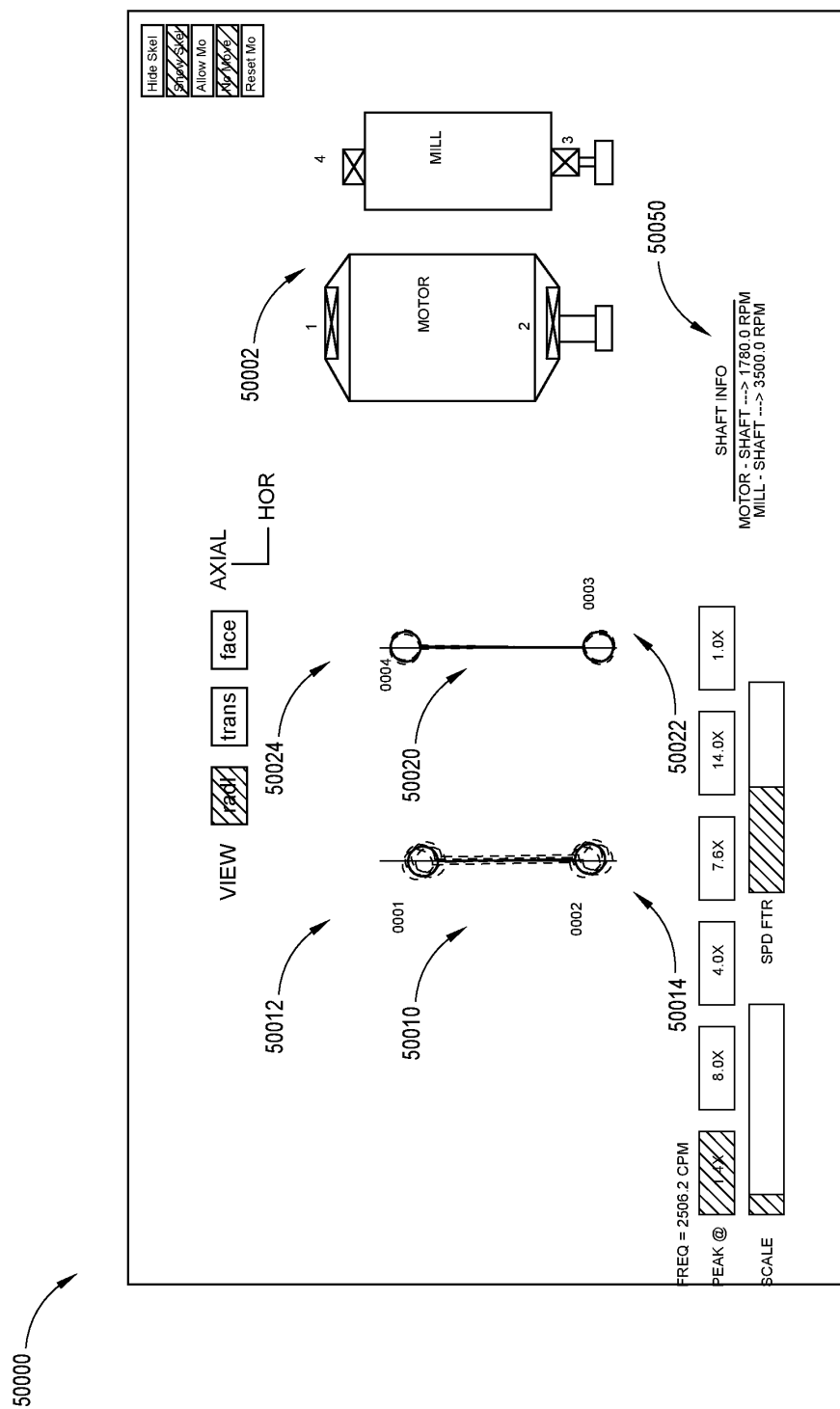


FIG. 233

233/233

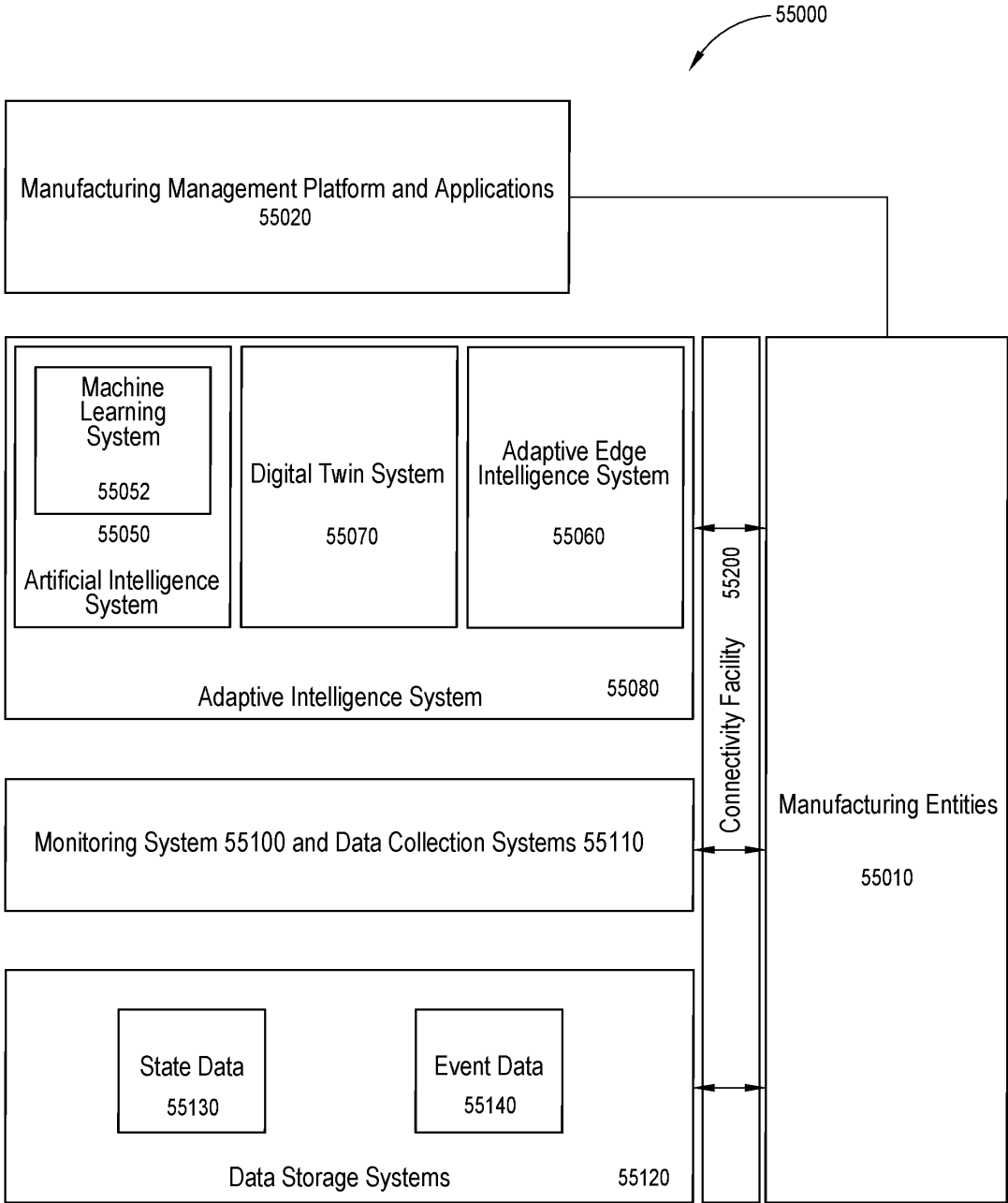


FIG. 234