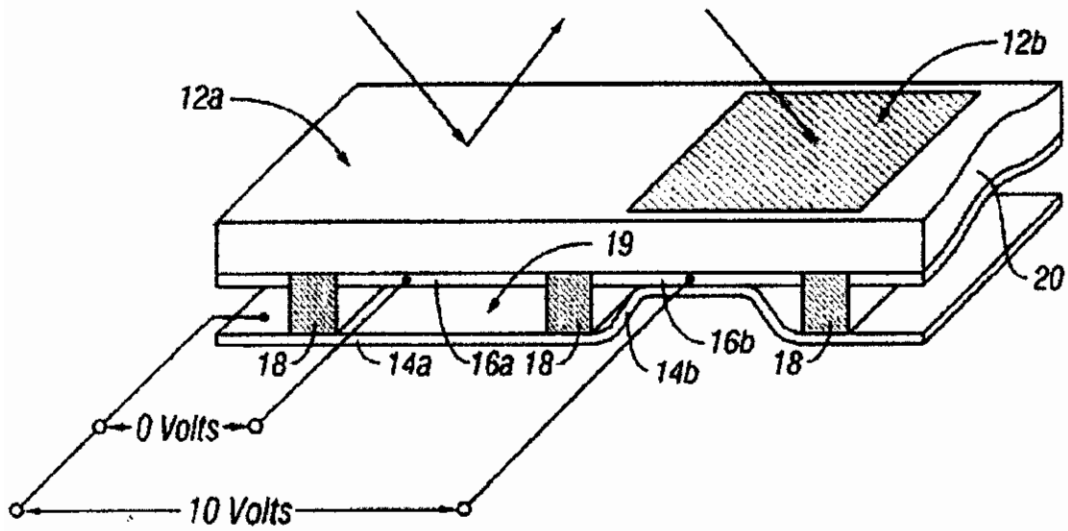


FIG. 1

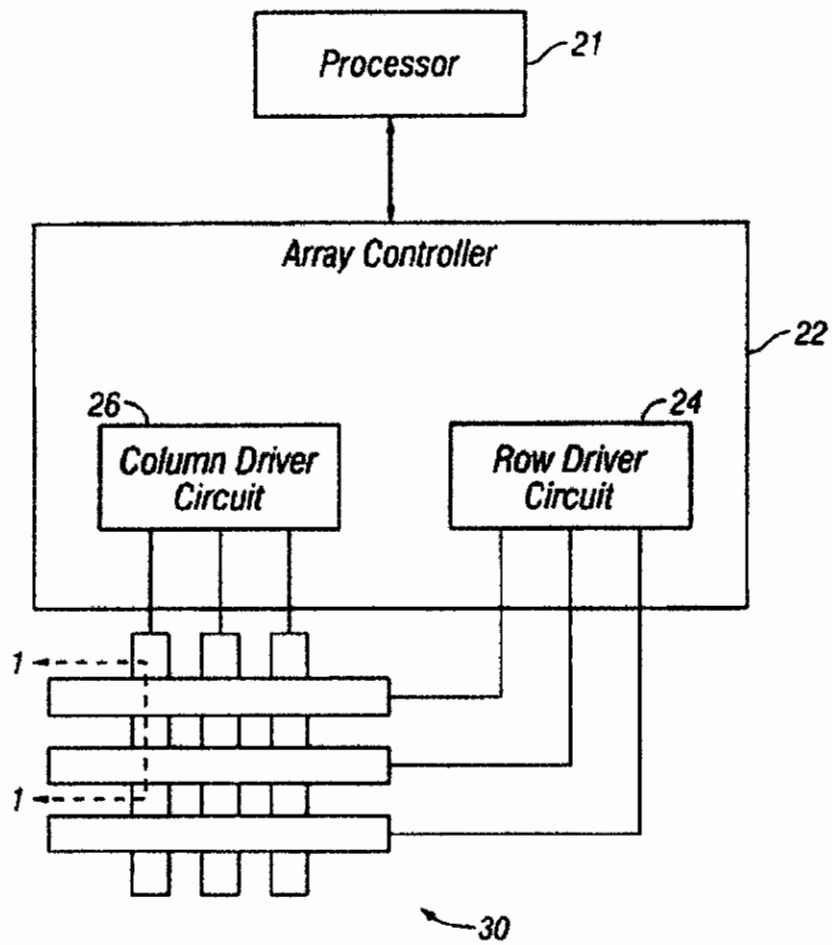

Processor
21
Array Controller
22
26
Column Driver Circuit
24
Row Driver Circuit
1
1
30

FIG. 2

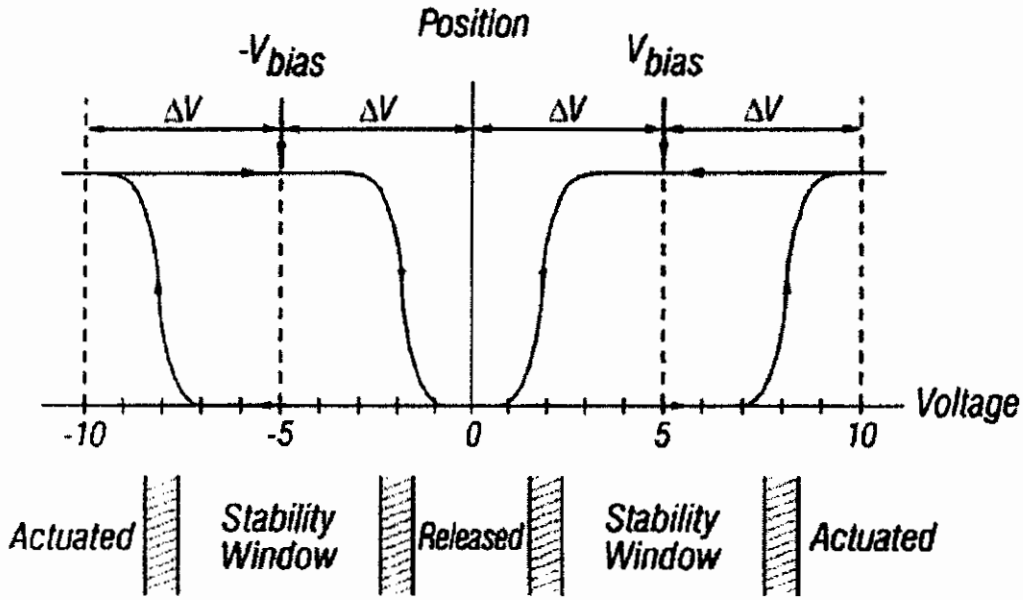


FIG. 3

Row Output Signals	Column Output Signals: $+V_{bias}$	Column Output Signals: $-V_{bias}$
0	Stable	Stable
$+\Delta V$	Release	Actuate
$-\Delta V$	Actuate	Release

FIG. 4

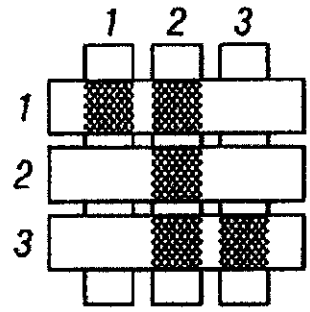

1
2
3
1
2
3

FIG. 5A

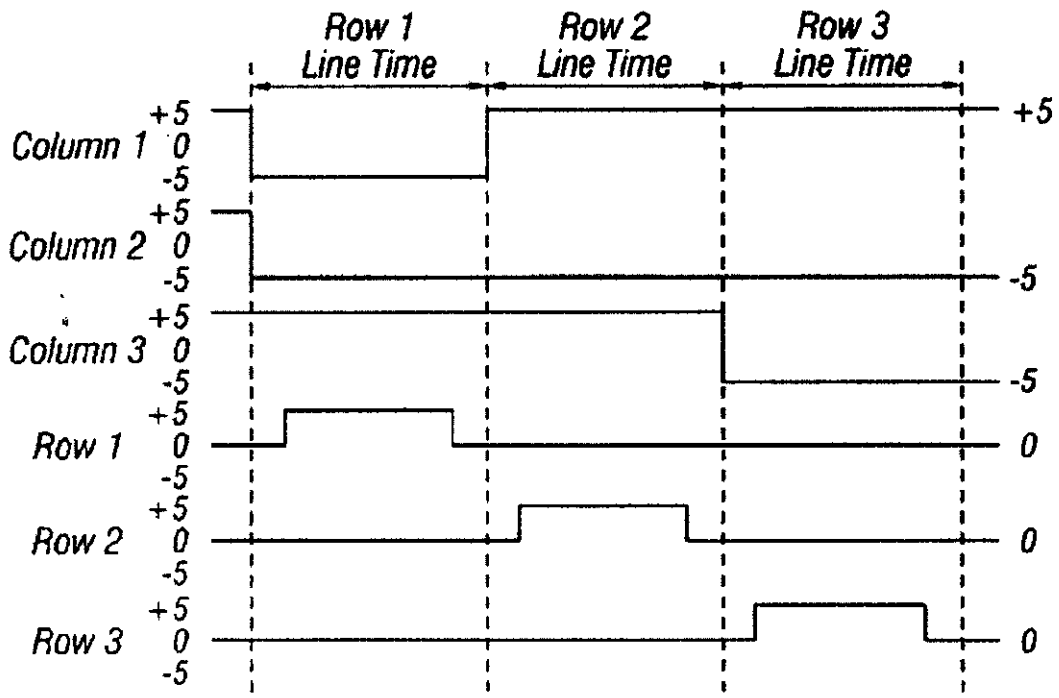

Row 1 Line Time
Row 2 Line Time
Row 3 Line Time
Column 1
Column 2
Column 3
Row 1
Row 2
Row 3
+5
0
-5
+5
-5
-5
0
0
0

FIG. 5B

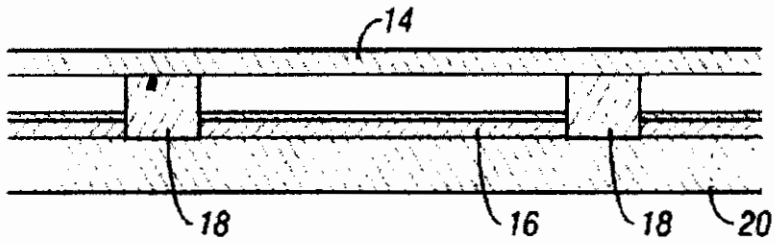


FIG. 6A

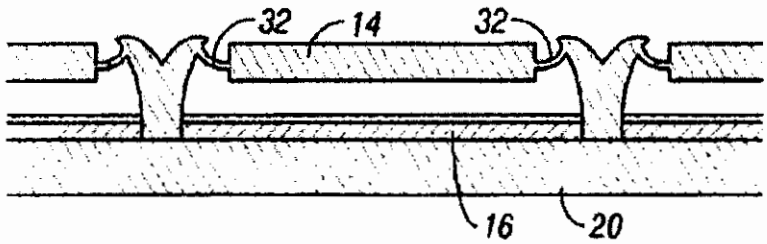


FIG. 6B

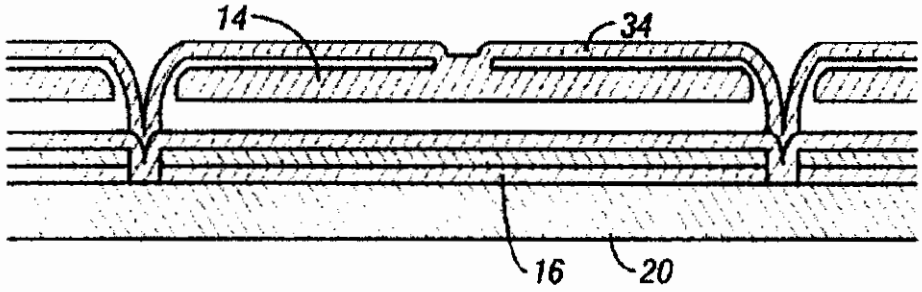


FIG. 6C

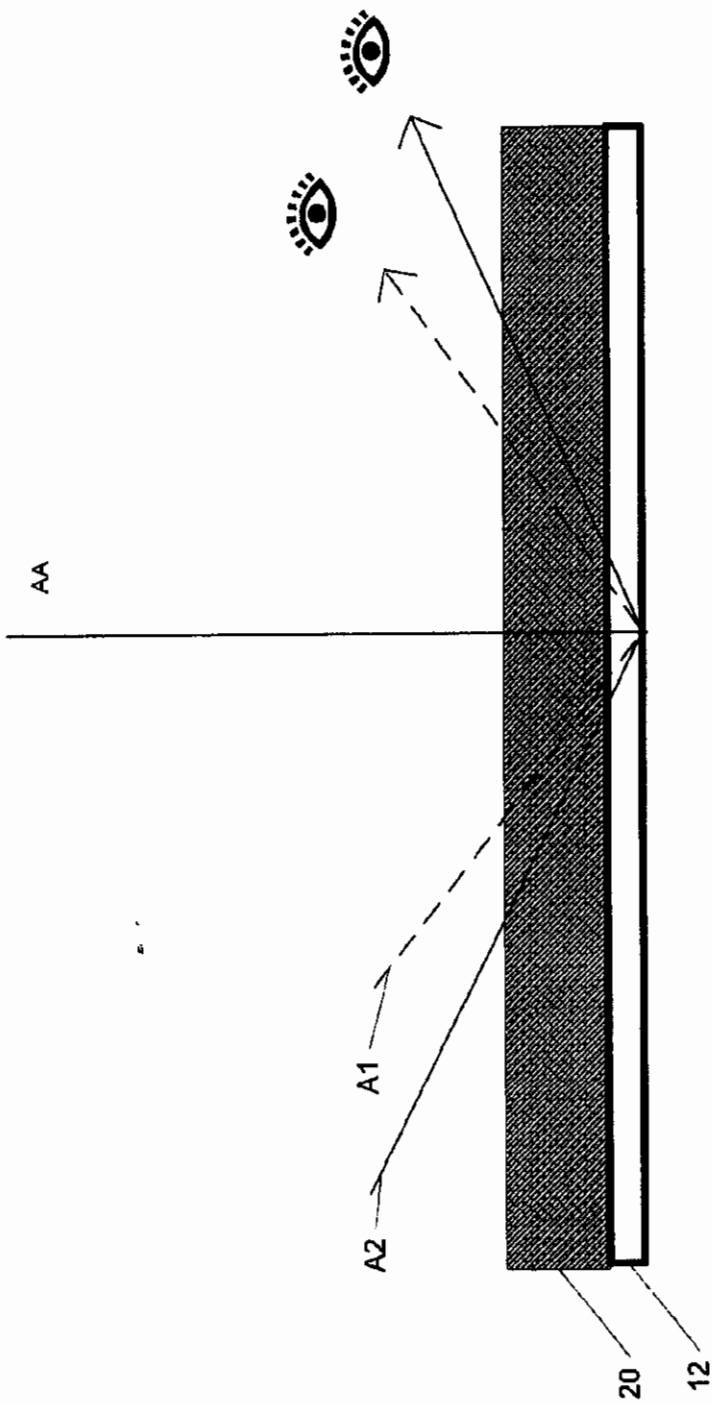


FIG. 7

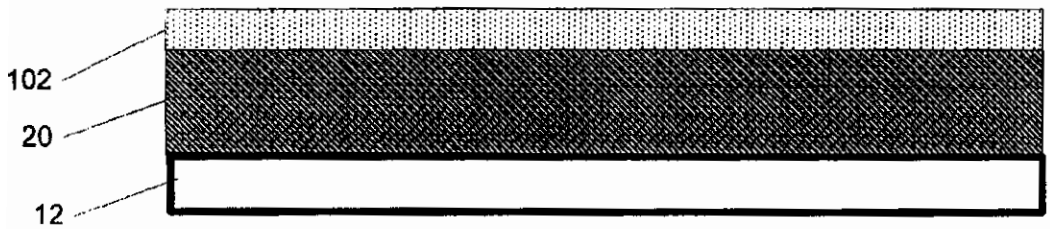


FIG. 8

FIG. 9

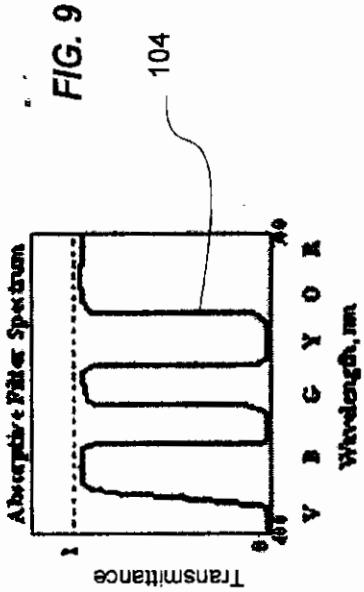


FIG. 10

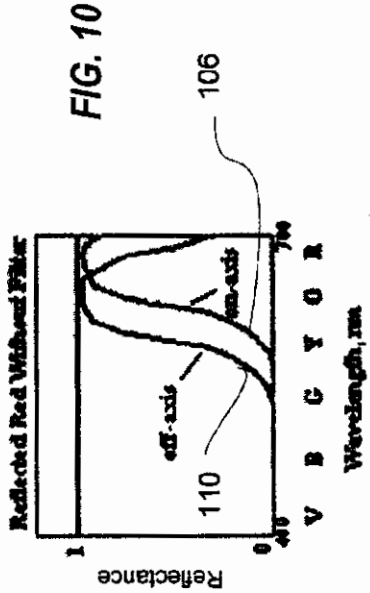
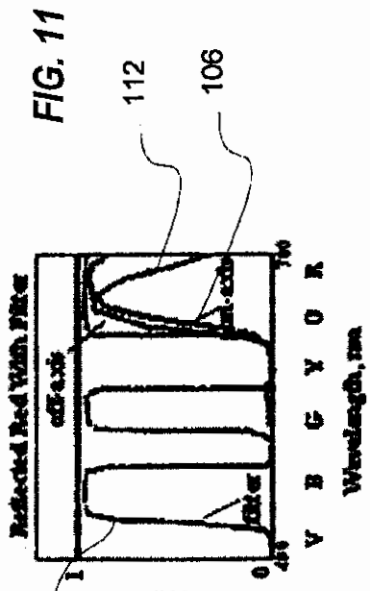


FIG. 11



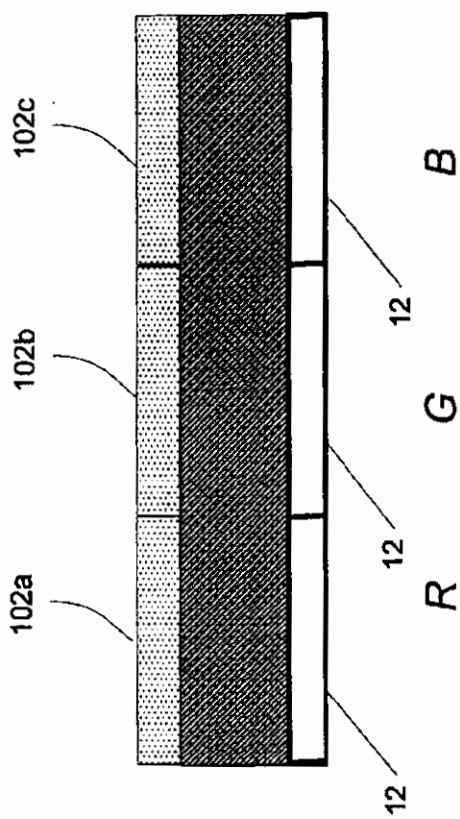


FIG. 12

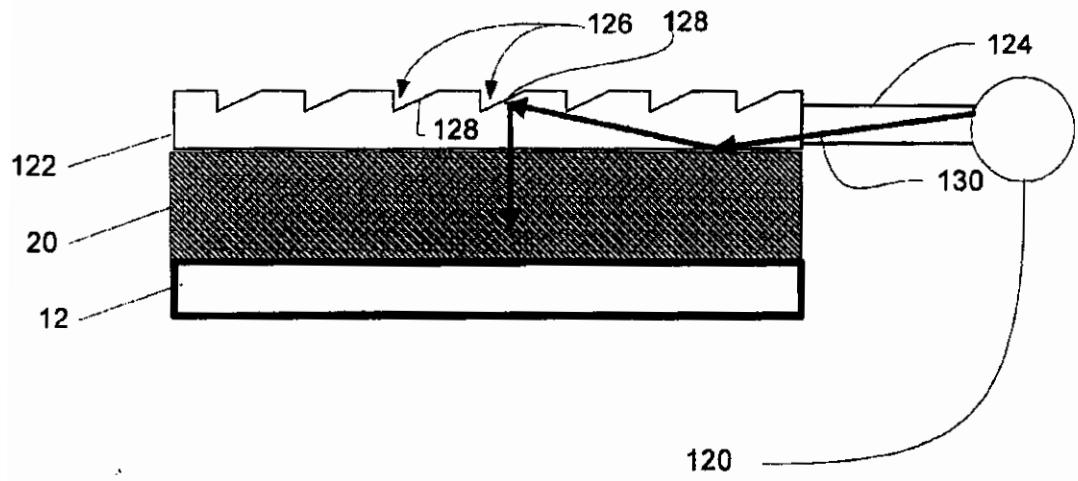


FIG. 13

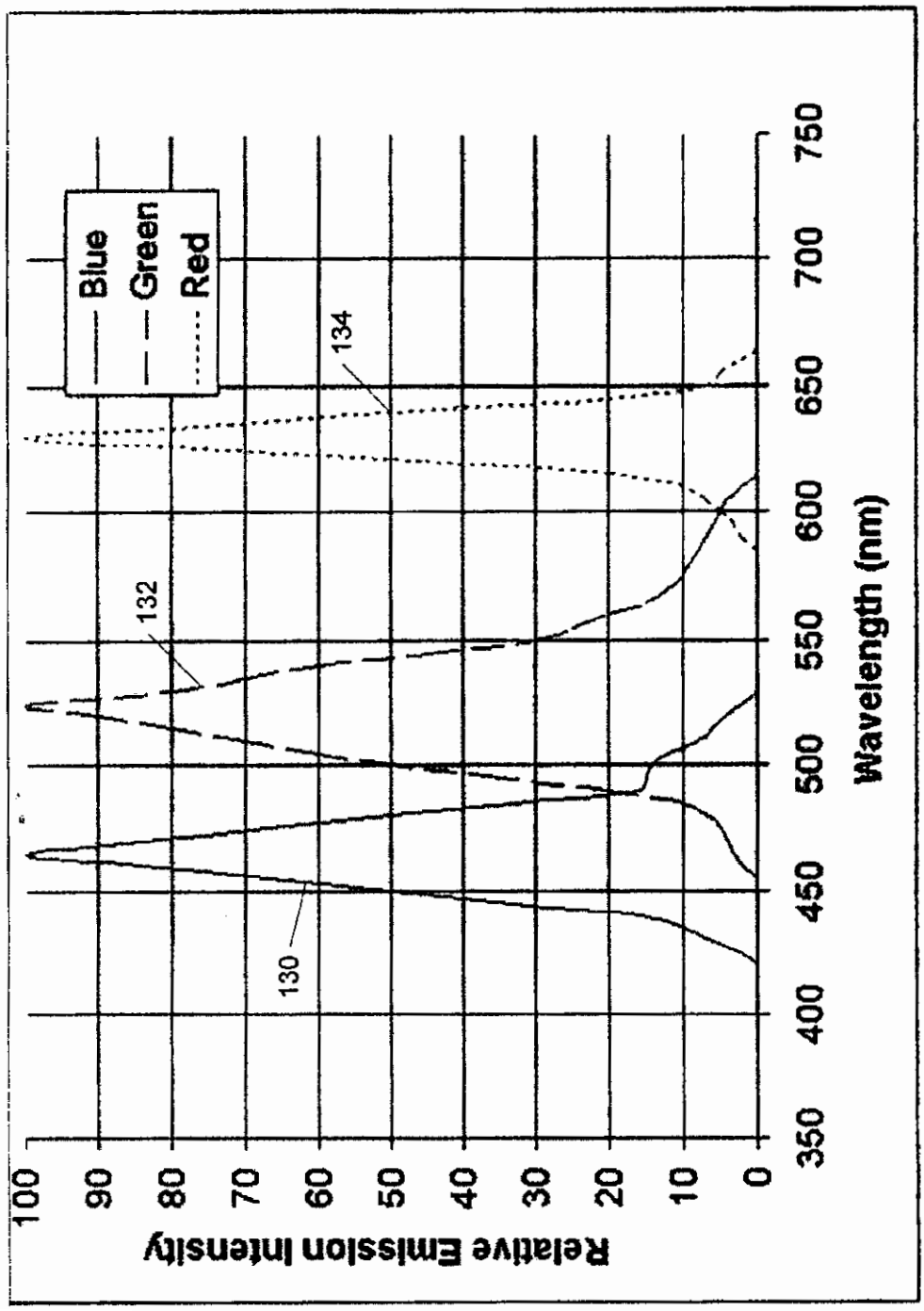

Blue
Green
Red
130
132
134
Relative Emission Intensity
Wavelength (nm)
100
90
80
70
60
50
40
30
20
10
0
350
400
450
500
550
600
650
700
750

FIG. 14

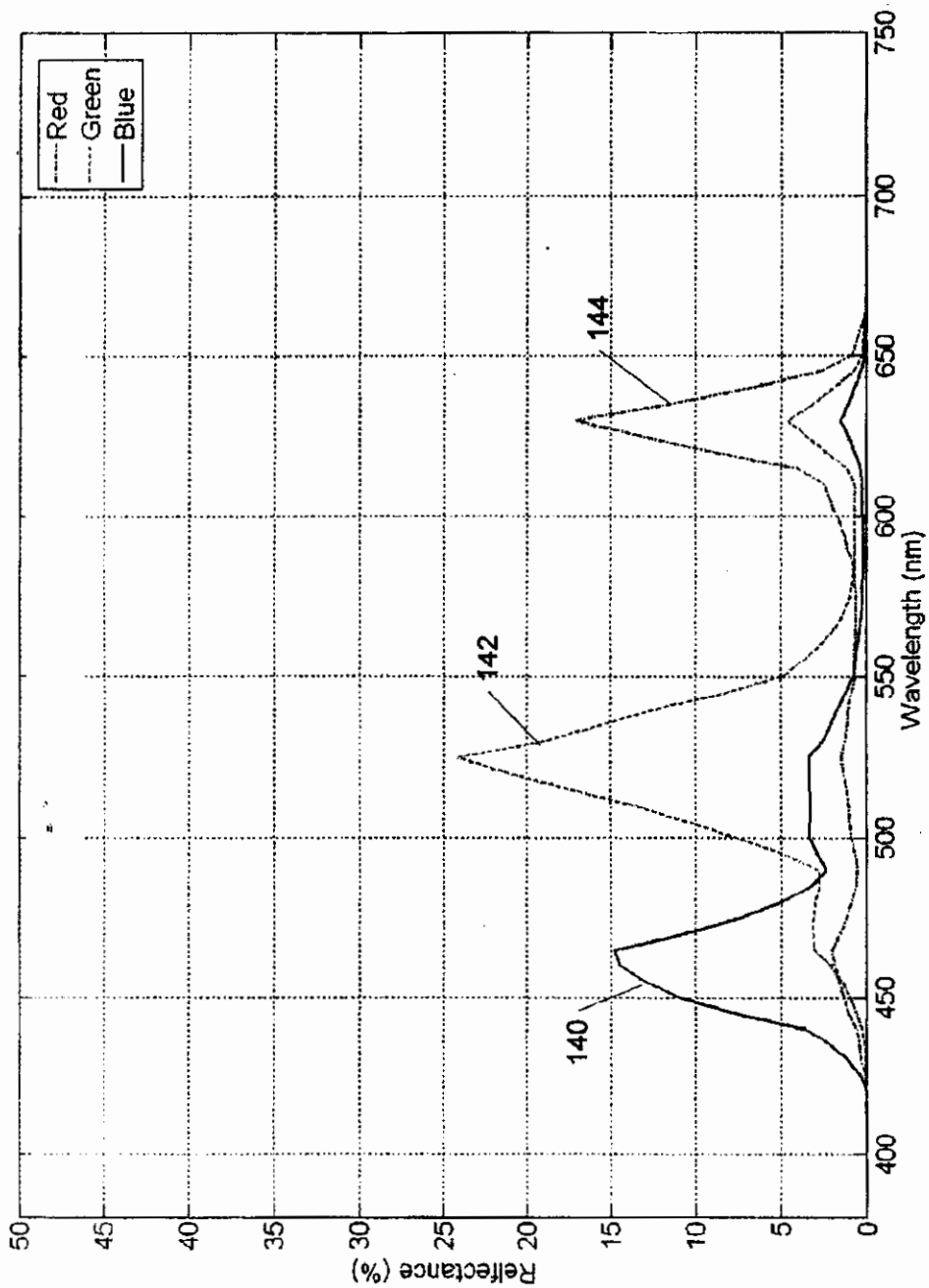

Red
Green
Blue
140
142
144
Reflectance (%)
Wavelength (nm)
0
5
10
15
20
25
30
35
40
45
50
400
450
500
550
600
650
700
750

FIG. 15

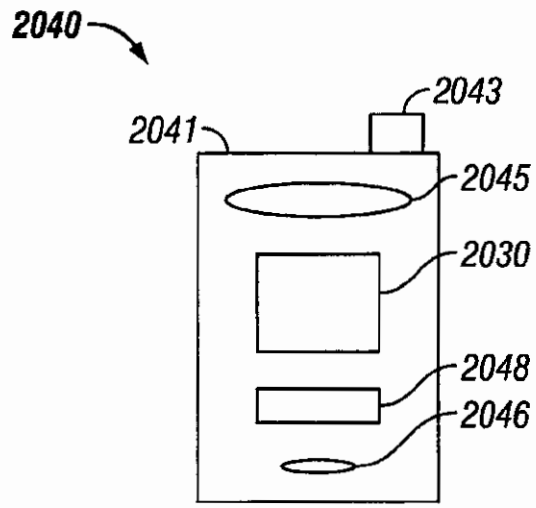


FIG. 16A

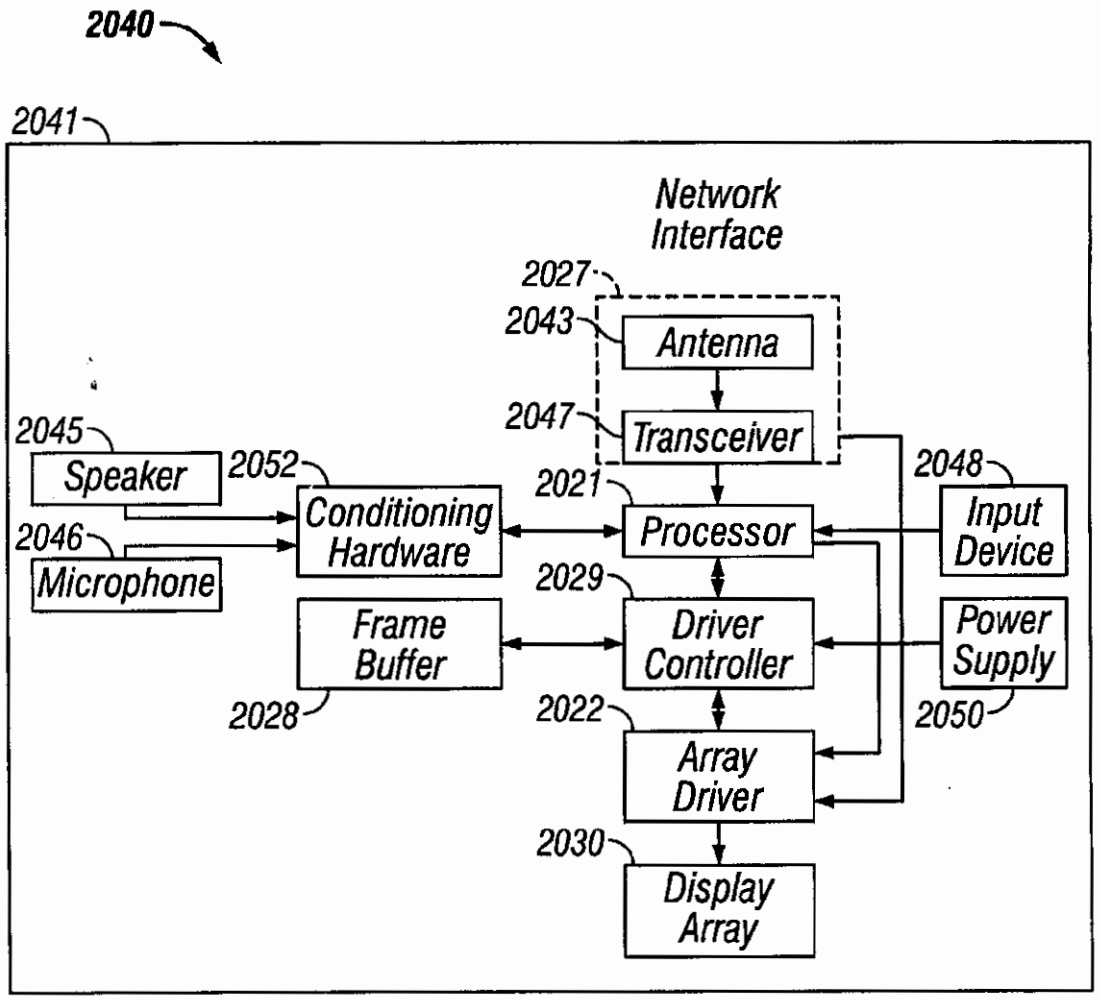


FIG. 16B