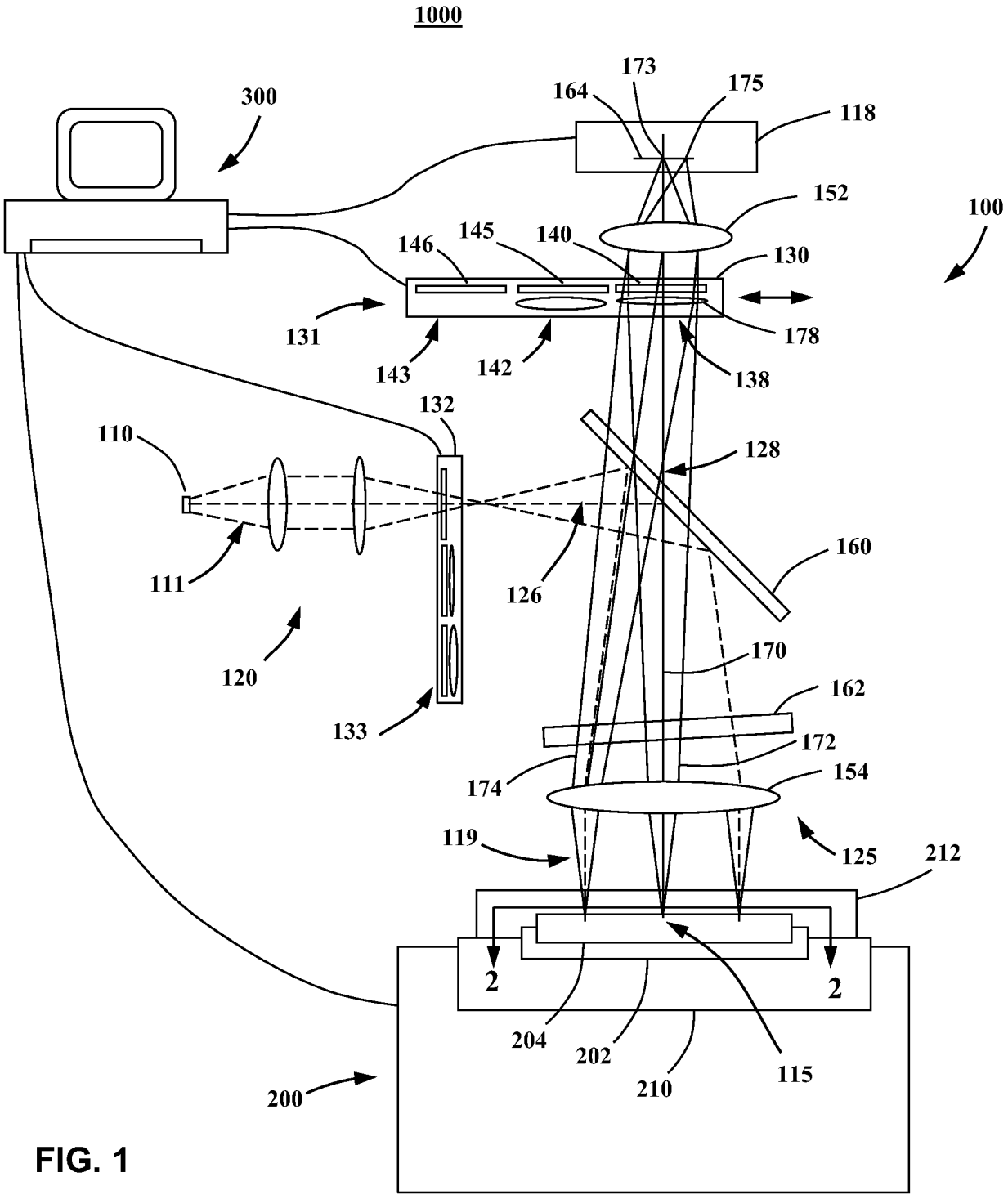
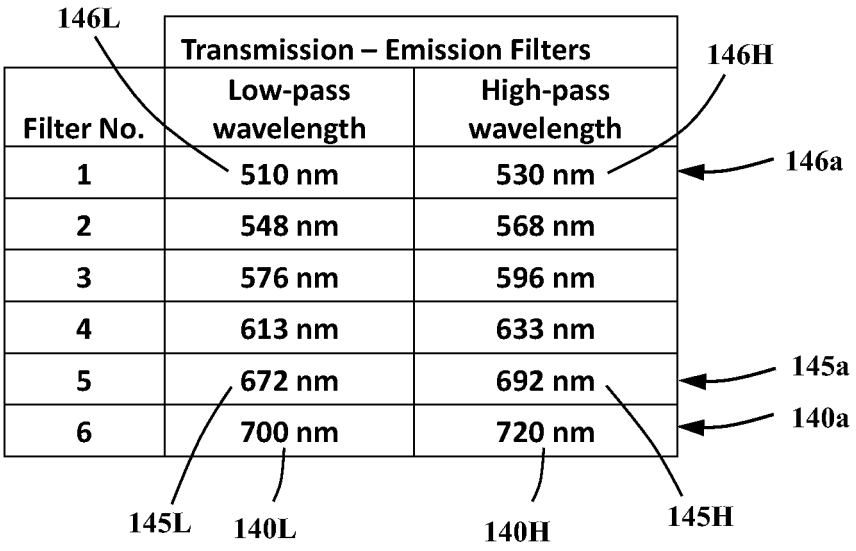

1000
300
173
164
175
118
152
100
146
145
140
130
131
178
143
142
138
132
110
128
160
111
126
120
170
162
133
172
174
154
119
125
212
2
2
204
202
210
115
200

FIG. 1



Filter No.	Transmission – Emission Filters Low-pass wavelength	High-pass wavelength
1	510 nm	530 nm
2	548 nm	568 nm
3	576 nm	596 nm
4	613 nm	633 nm
5	672 nm	692 nm
6	700 nm	720 nm

FIG. 2

Filter No.	Transmission – Excitation Filters Low-pass wavelength	High-pass wavelength
1	460 nm	480 nm
2	510 nm	530 nm
3	540 nm	560 nm
4	570 nm	590 nm
5	630 nm	650 nm
6	652 nm	672 nm

FIG. 3

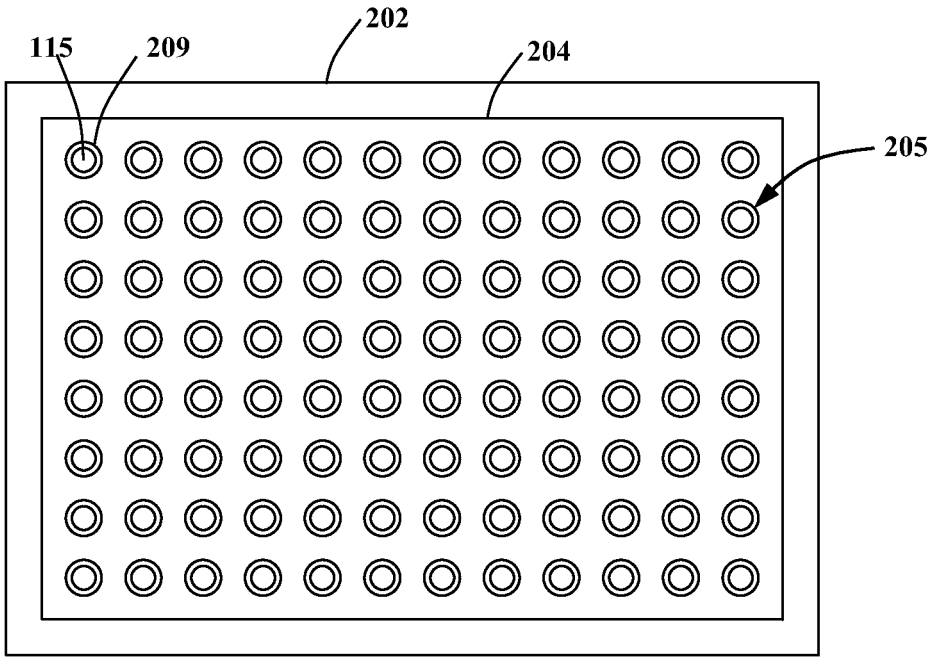


FIG. 4

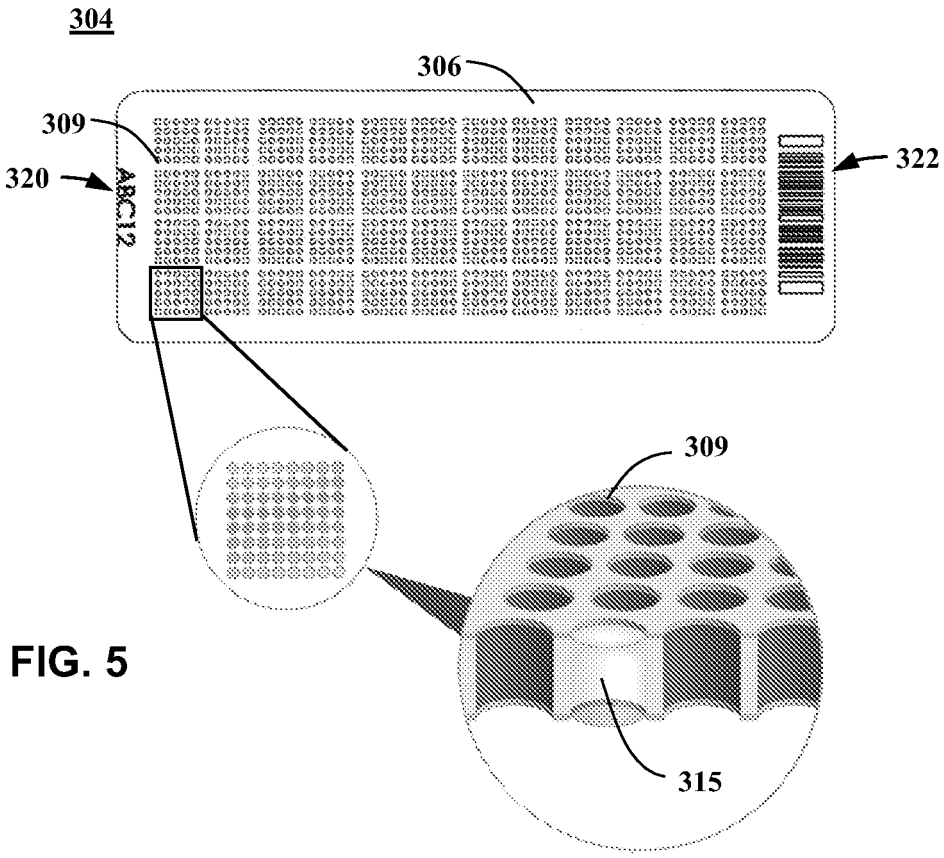


FIG. 5

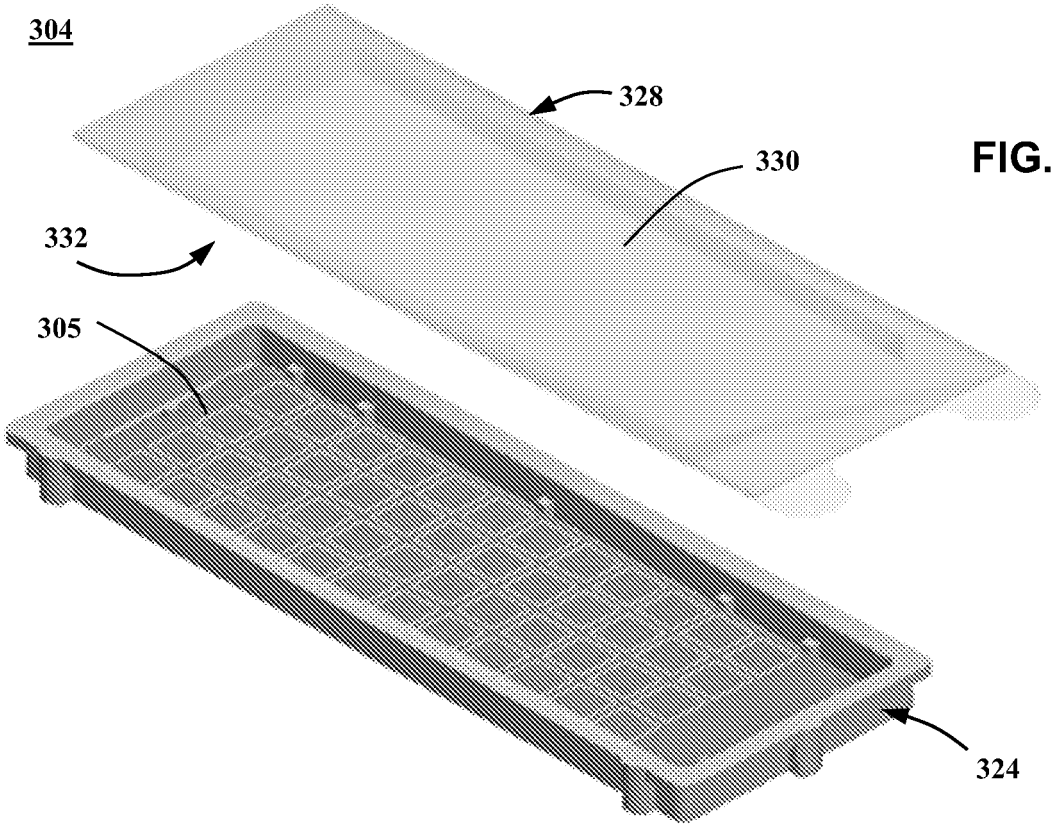


FIG. 6

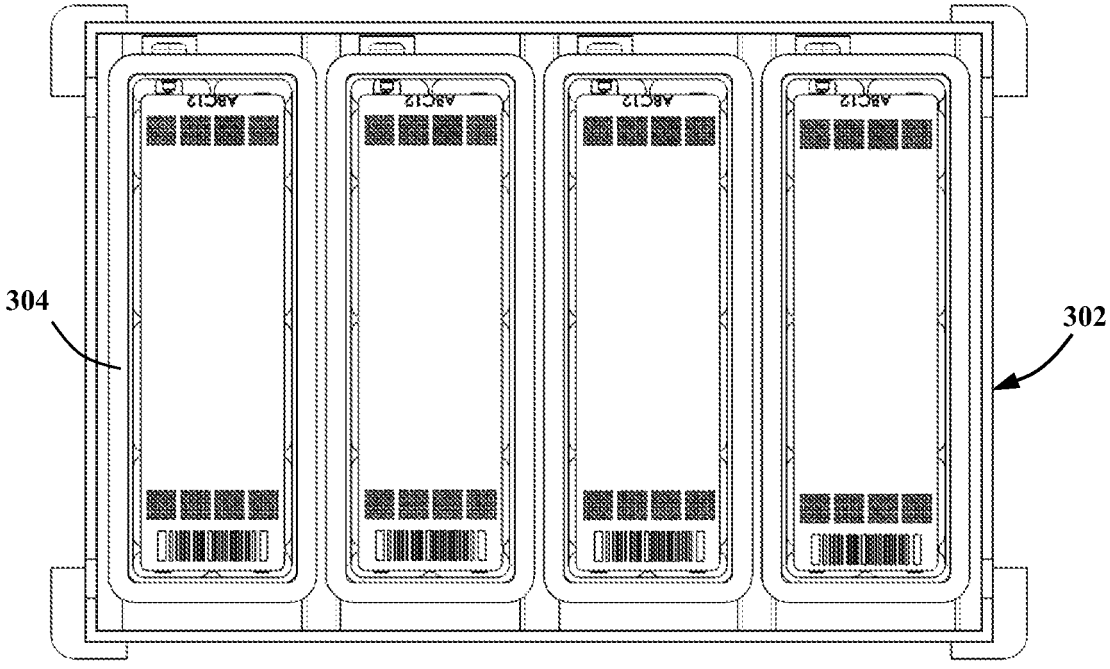


FIG. 7

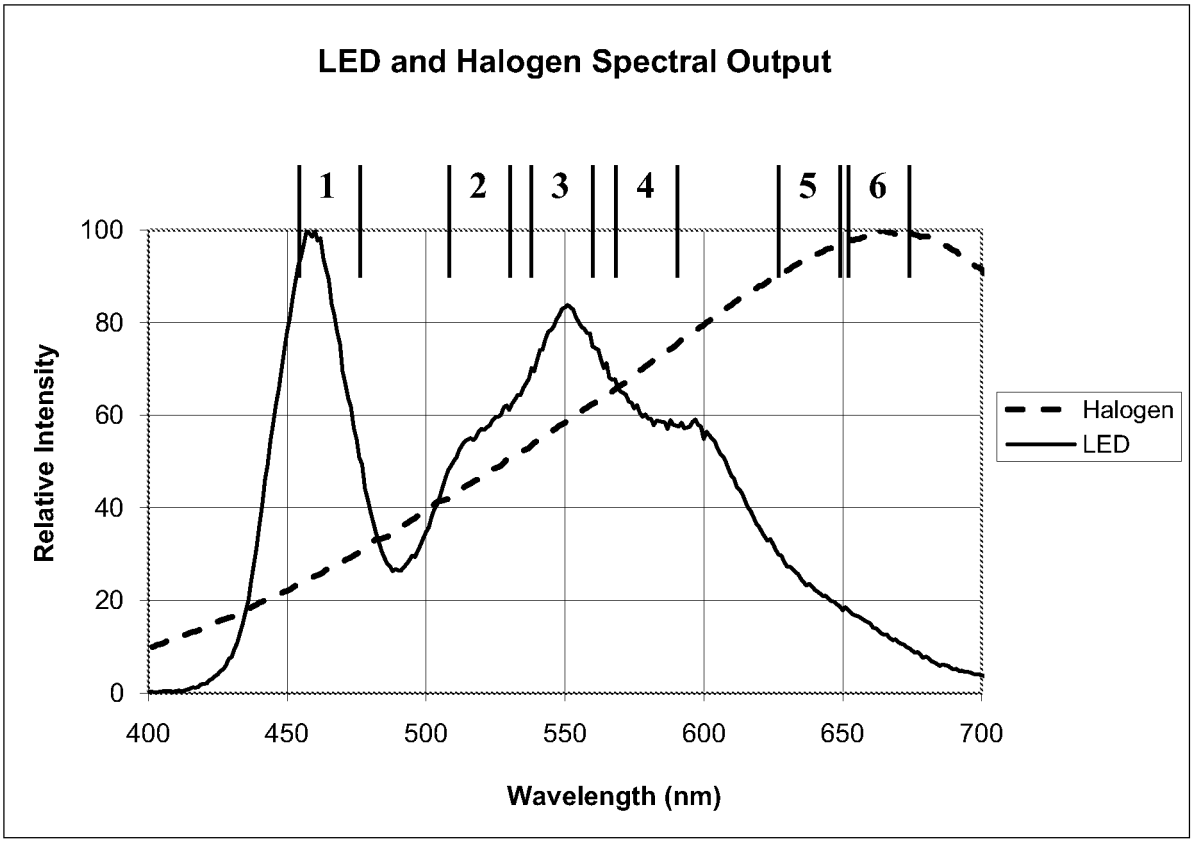

LED and Halogen Spectral Output
1
2
3
4
5
6
100
80
60
40
20
0
Relative Intensity
400
450
500
550
600
650
700
Wavelength (nm)
Halogen
LED

FIG. 8

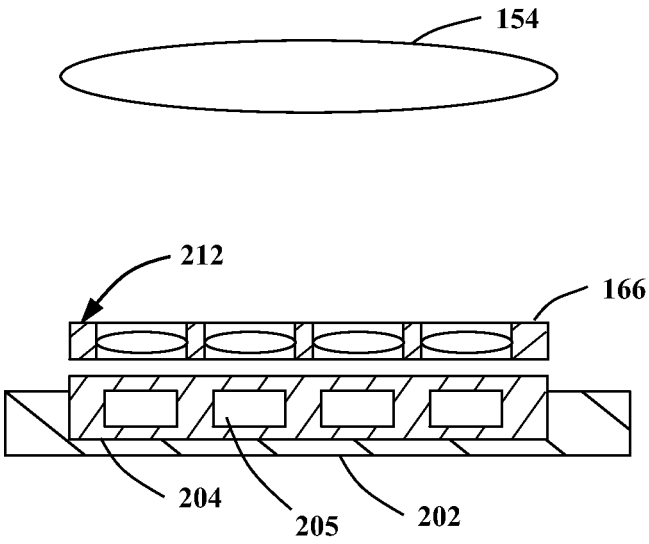


FIG. 9

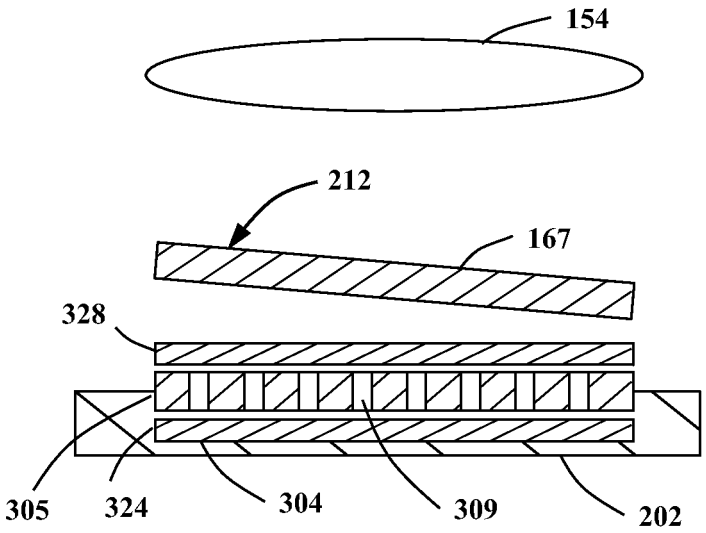


FIG. 10