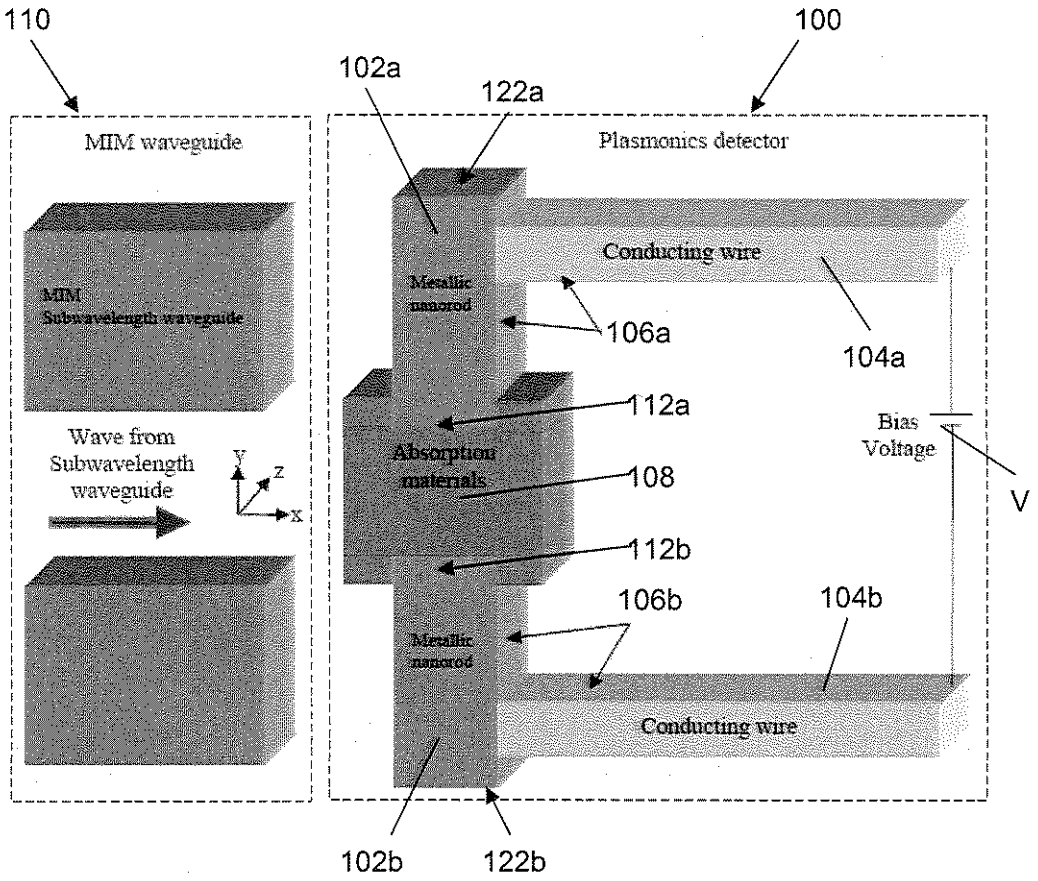

110
100
102a
122a
MIM waveguide
Plasmonics detector
MIM
Subwavelength waveguide
Metallic
nanorod
Conducting wire
106a
104a
112a
Wave from
Subwavelength
waveguide
Absorption
materials
108
Bias
Voltage
V
112b
106b
104b
Metallic
nanorod
Conducting wire
102b
122b

Figure 1

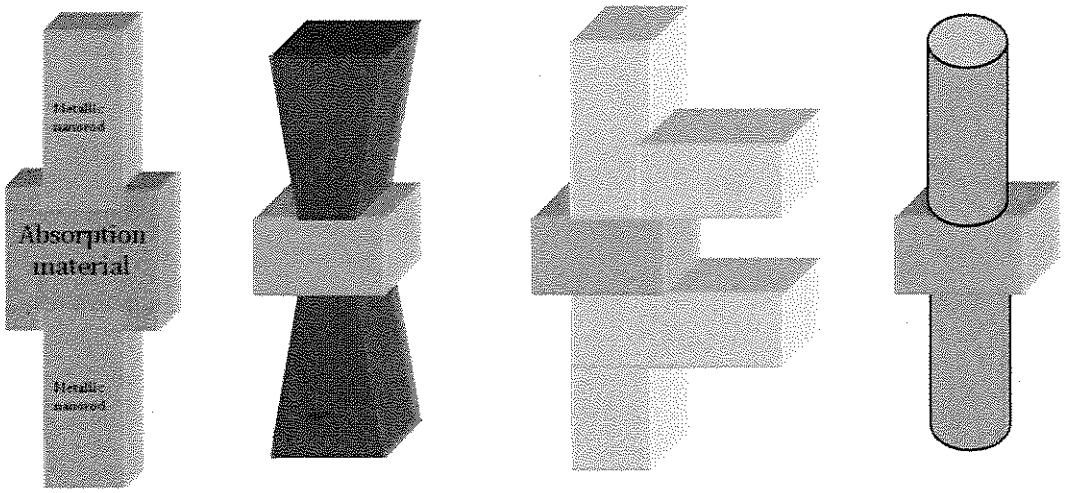


Figure 2

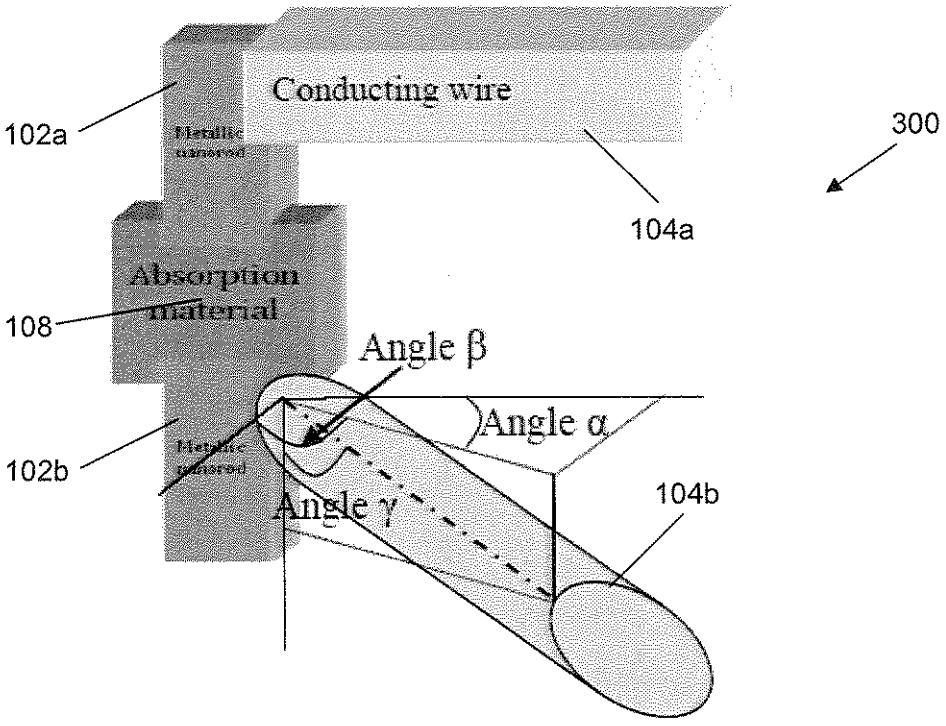


Figure 3

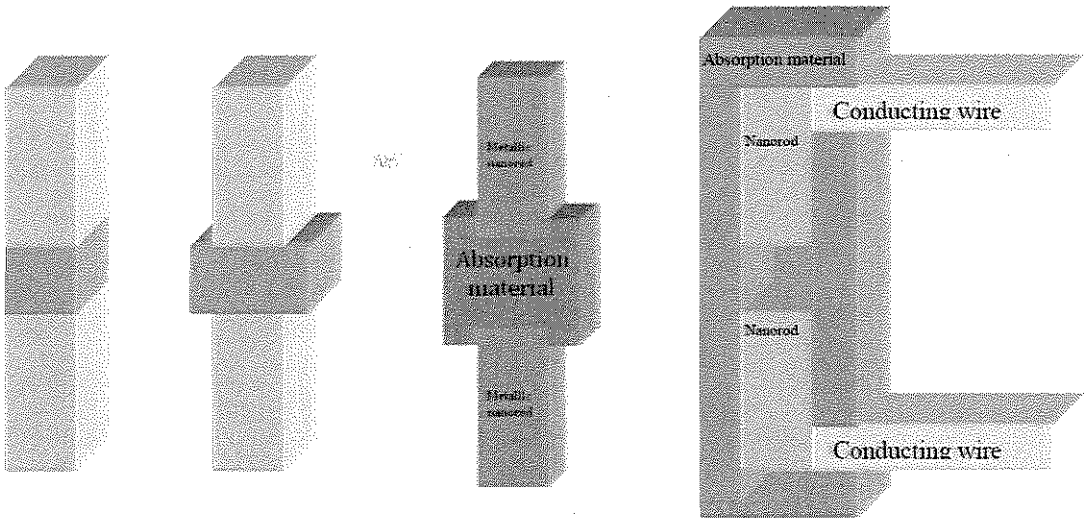


Figure 4

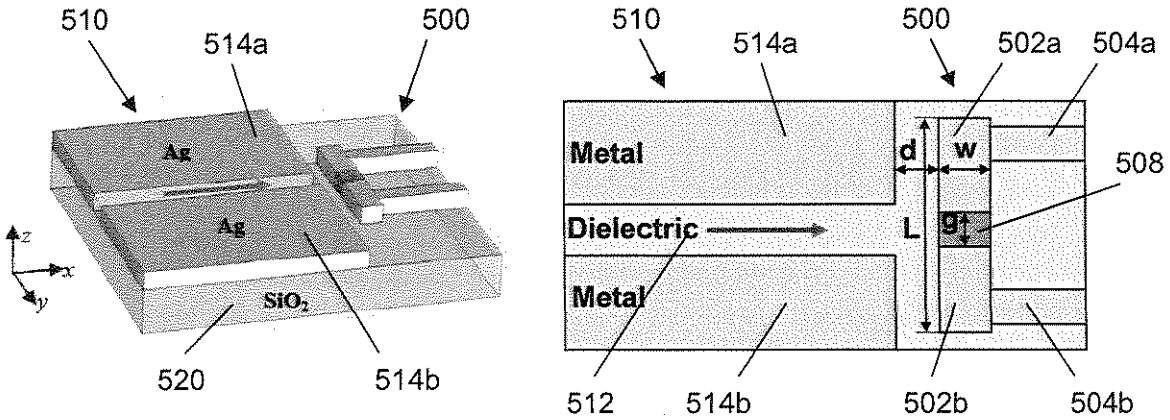


Figure 5

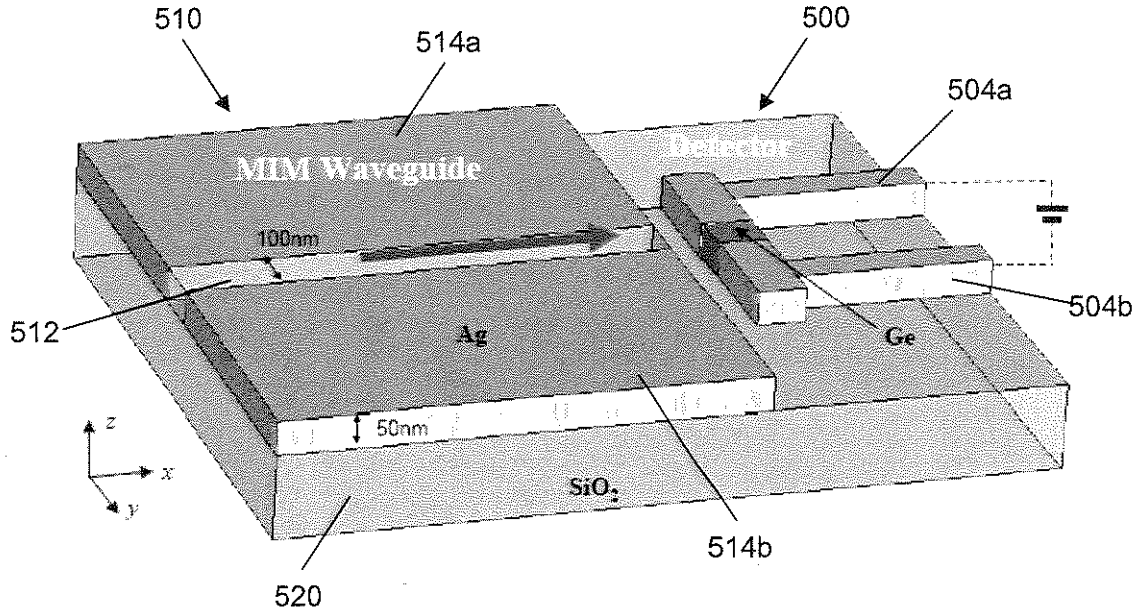


Figure 6(a)

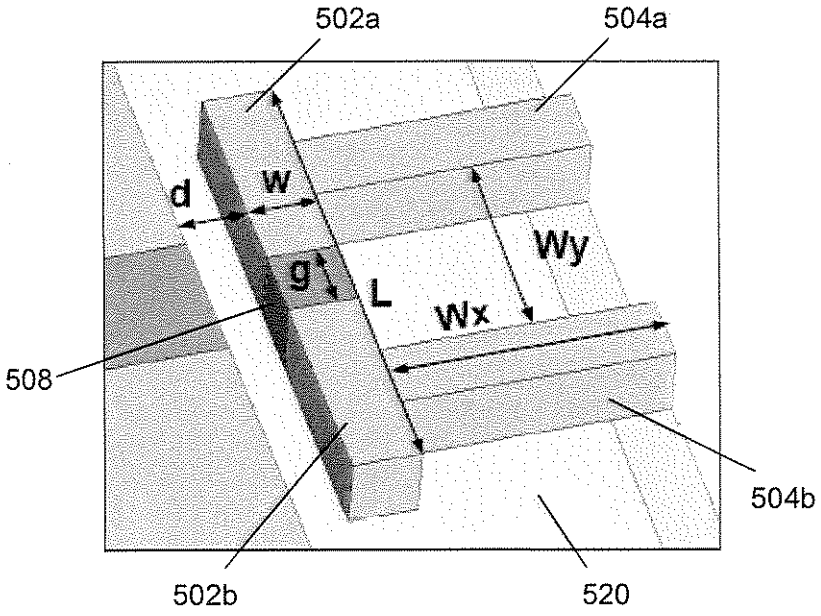


Figure 6(b)

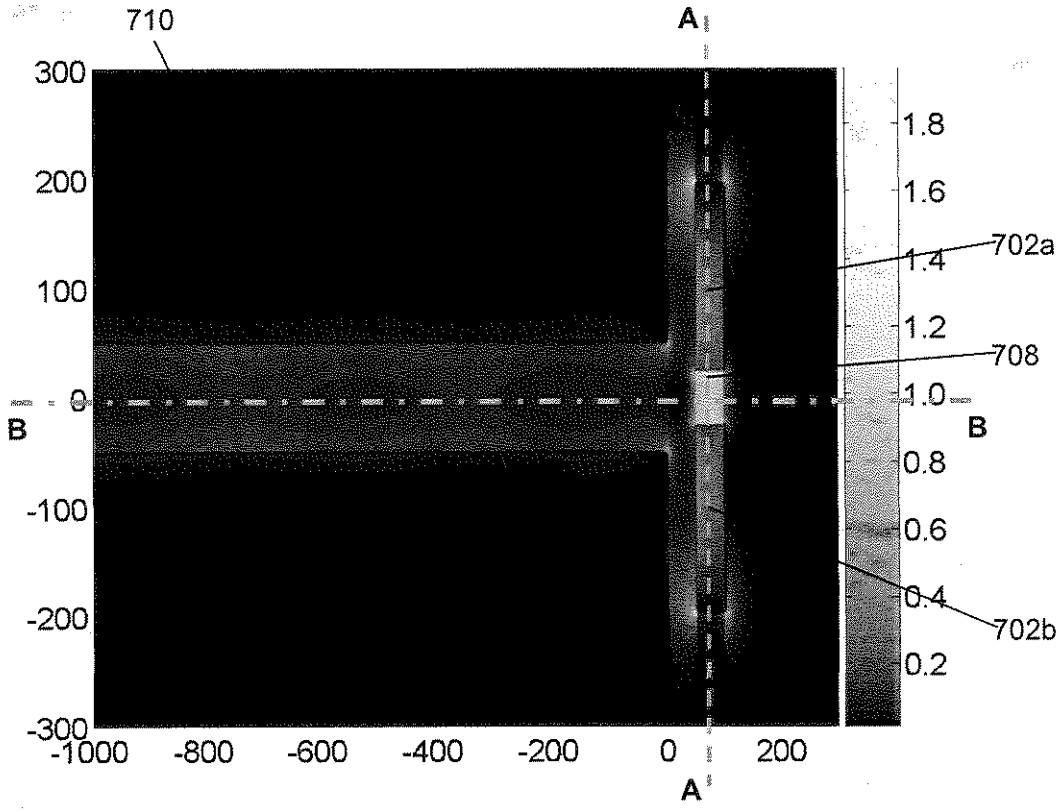


Figure 7(a)

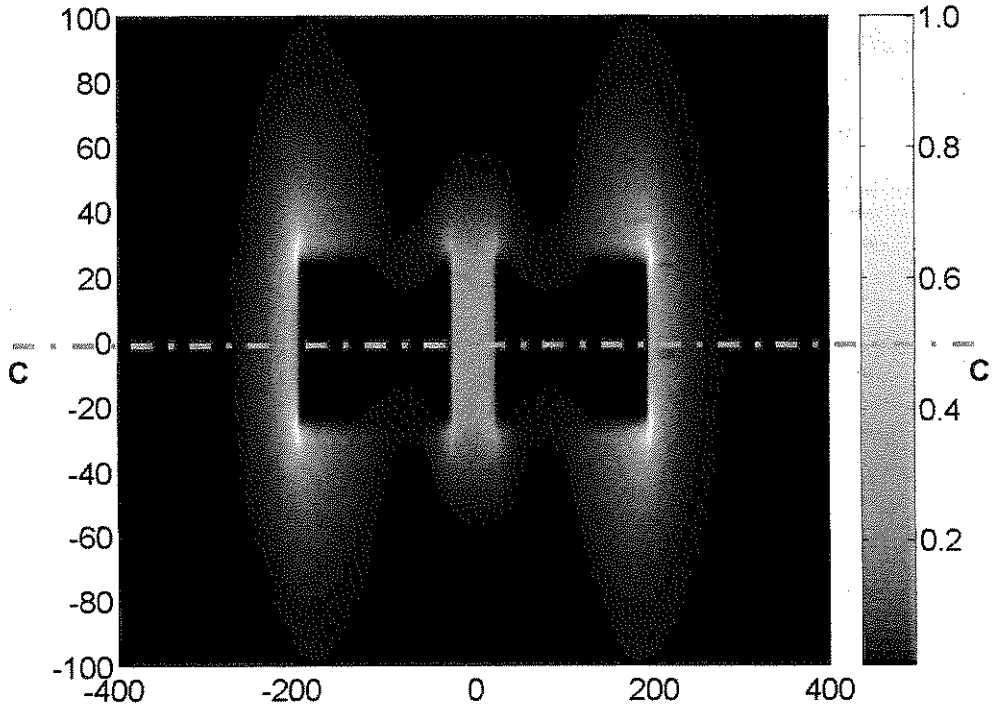


Figure 7(b)

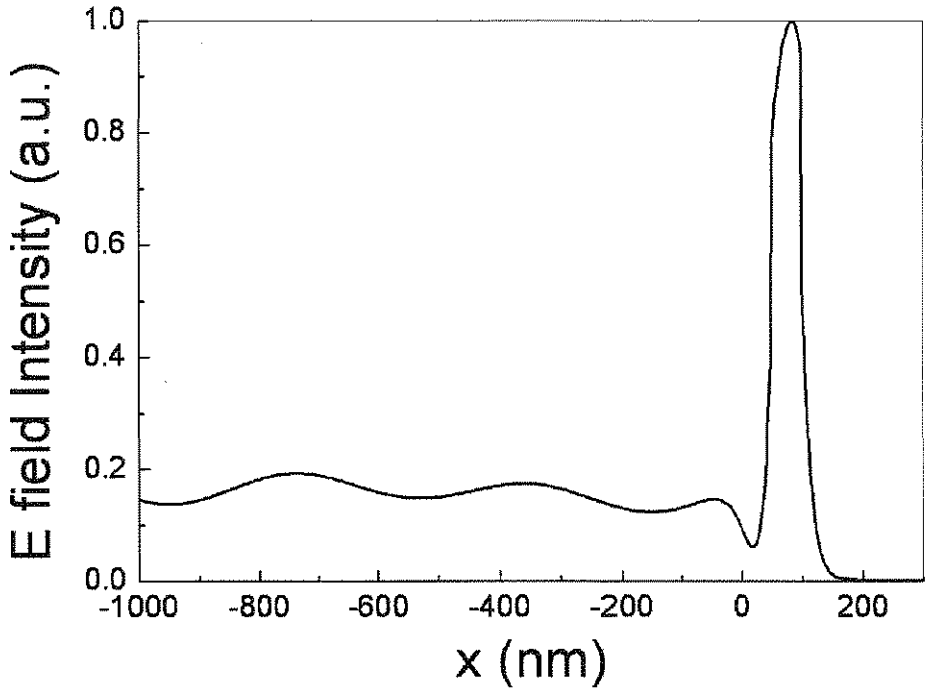


Figure 7(c)

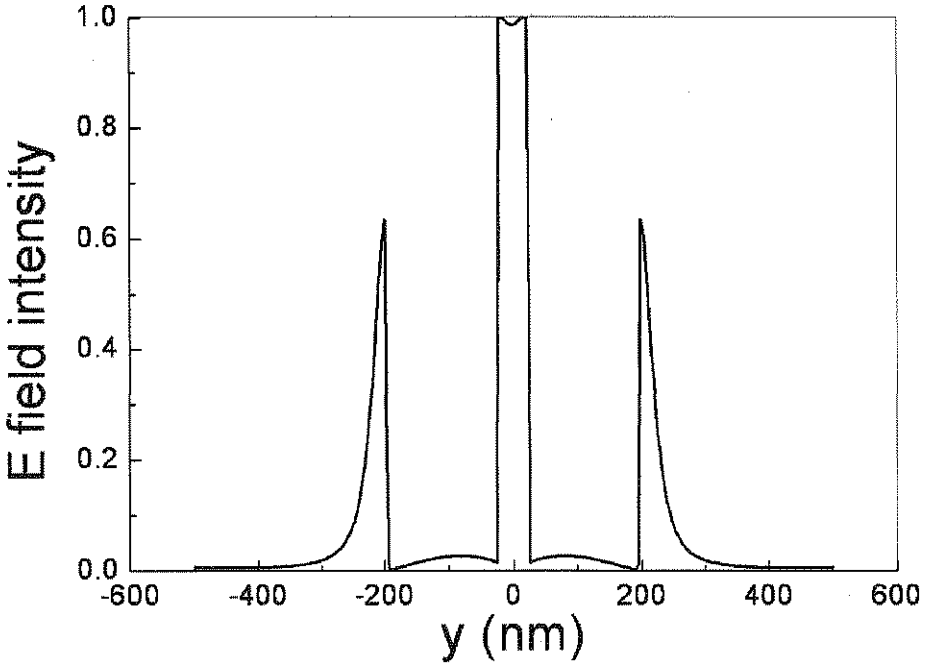


Figure 7(d)

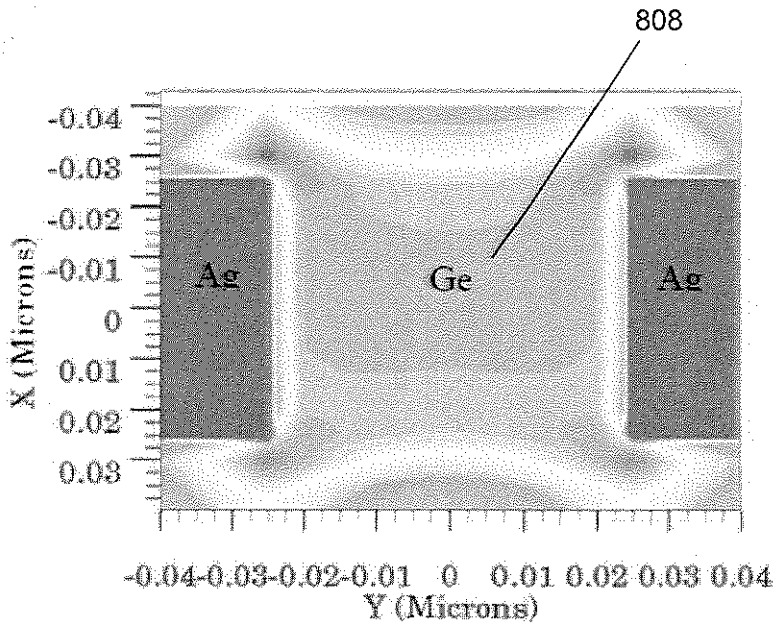


Figure 8

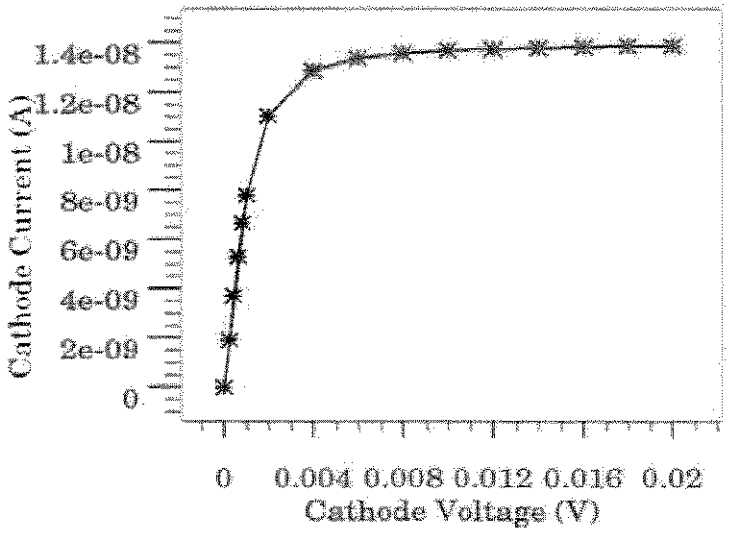


Figure 9

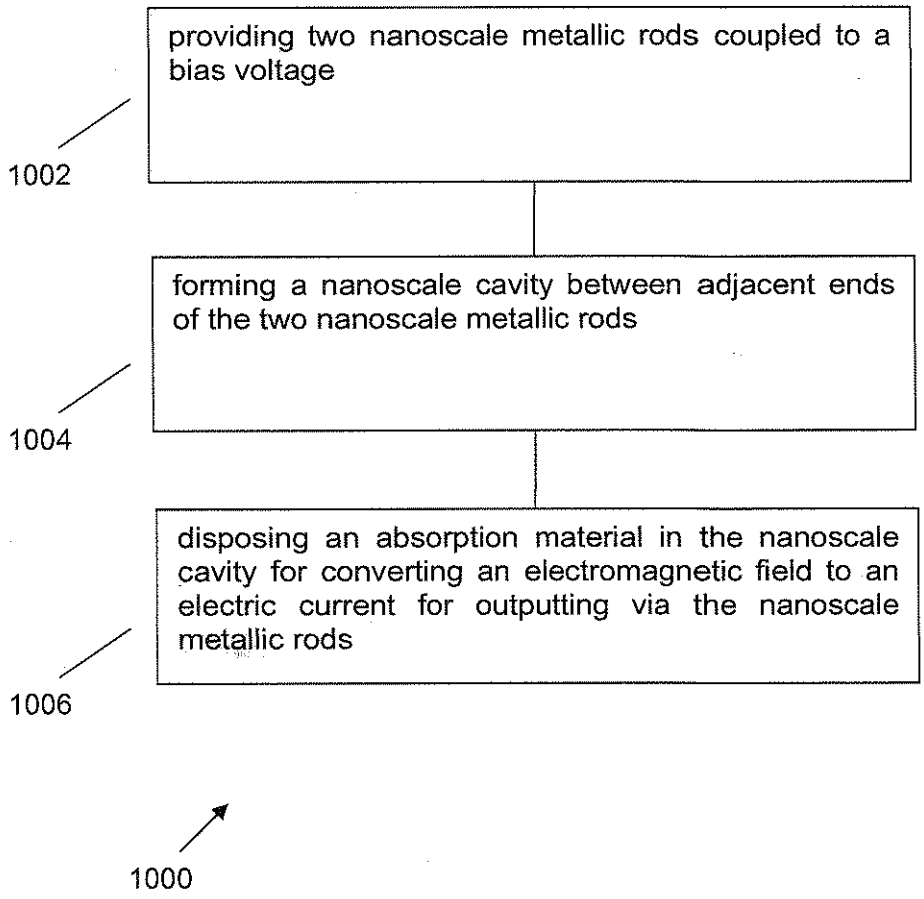

providing two nanoscale metallic rods coupled to a bias voltage
1002
forming a nanoscale cavity between adjacent ends of the two nanoscale metallic rods
1004
disposing an absorption material in the nanoscale cavity for converting an electromagnetic field to an electric current for outputting via the nanoscale metallic rods
1006
1000

Figure 10