

FIG. 1A

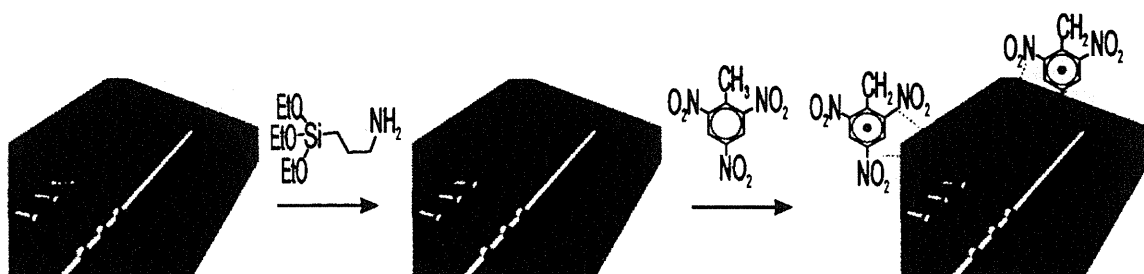


FIG. 1B

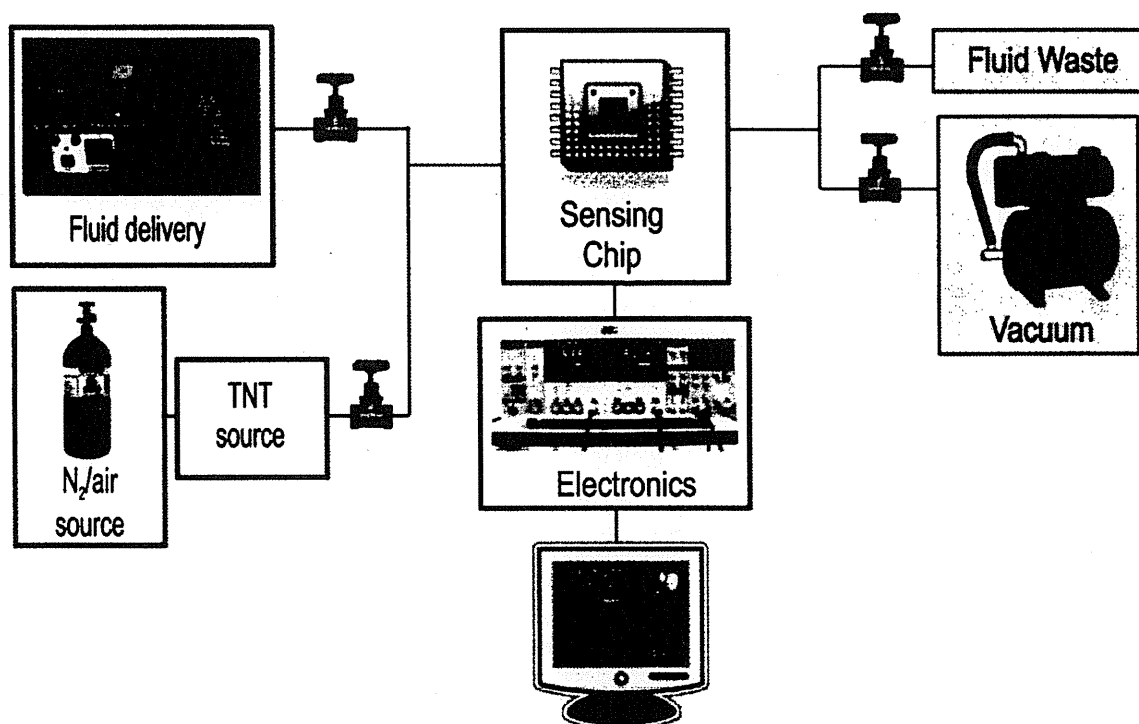


FIG. 1C

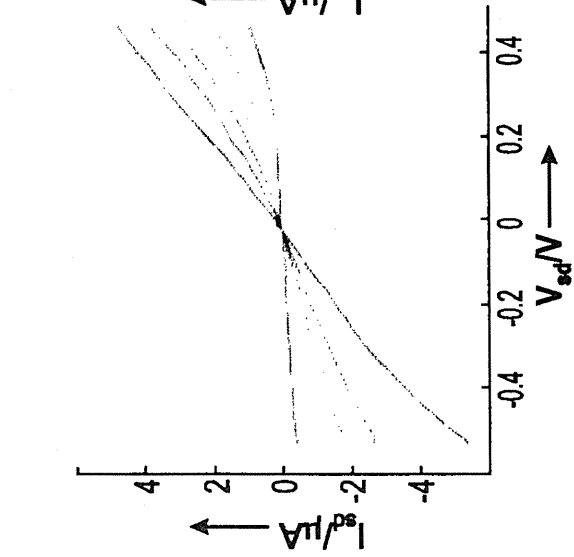


FIG. 1D

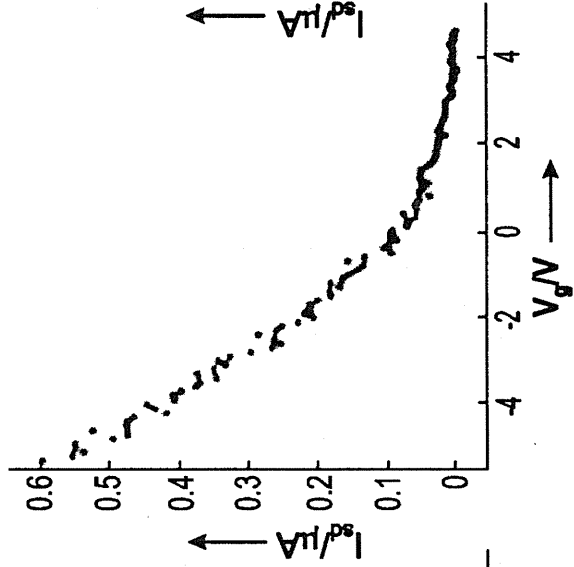


FIG. 1E

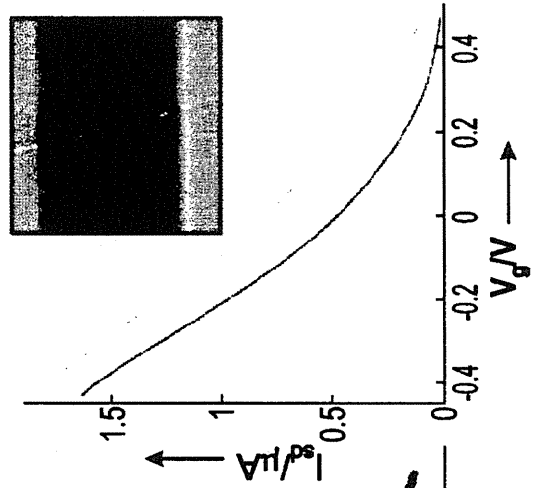


FIG. 1F

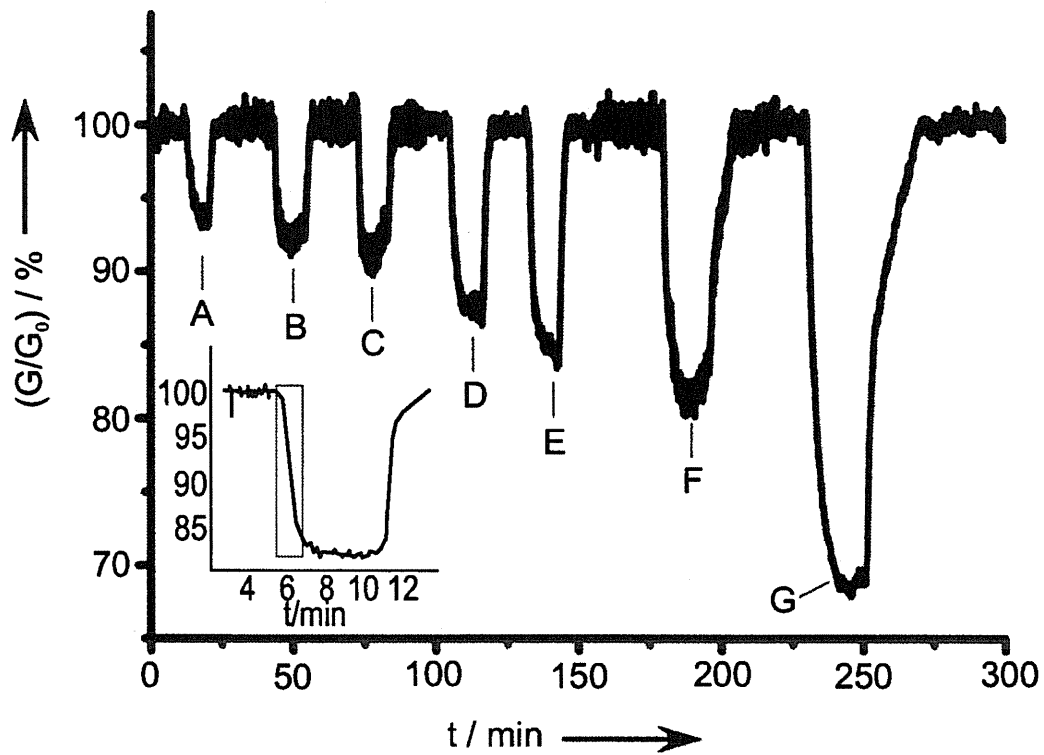


FIG. 2A

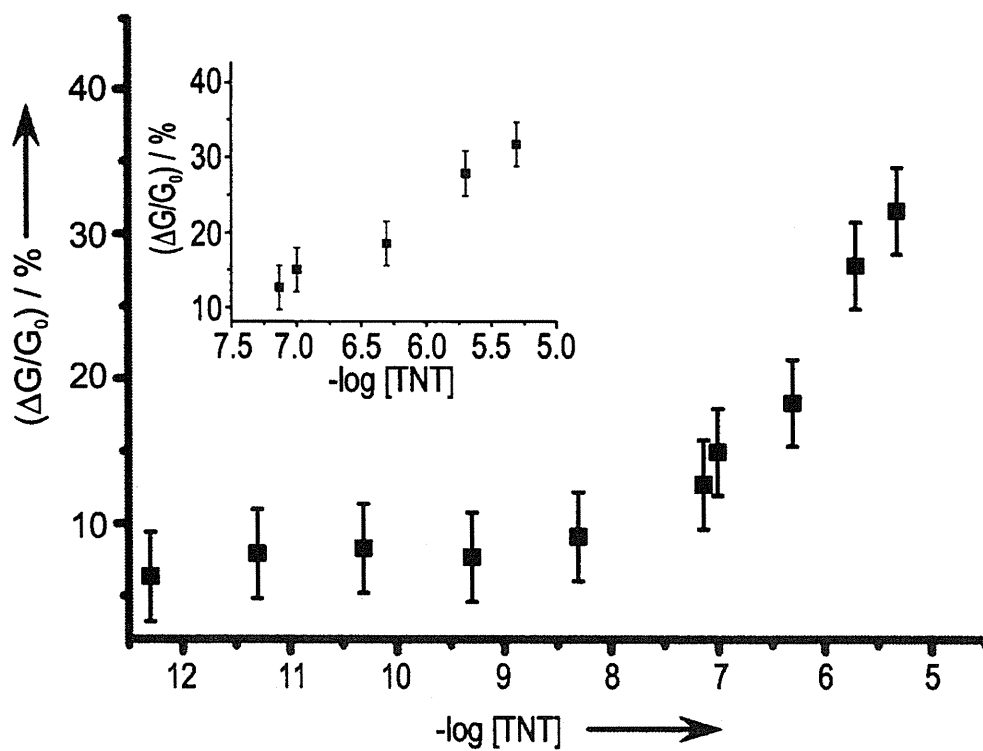


FIG. 2B

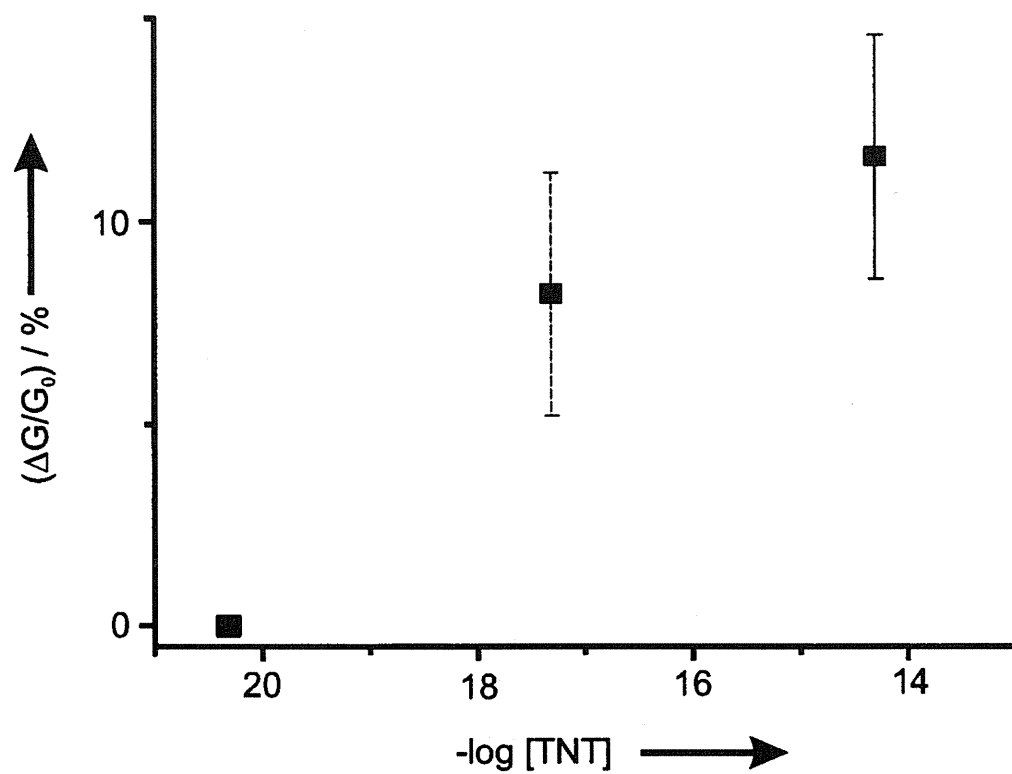


FIG. 2C

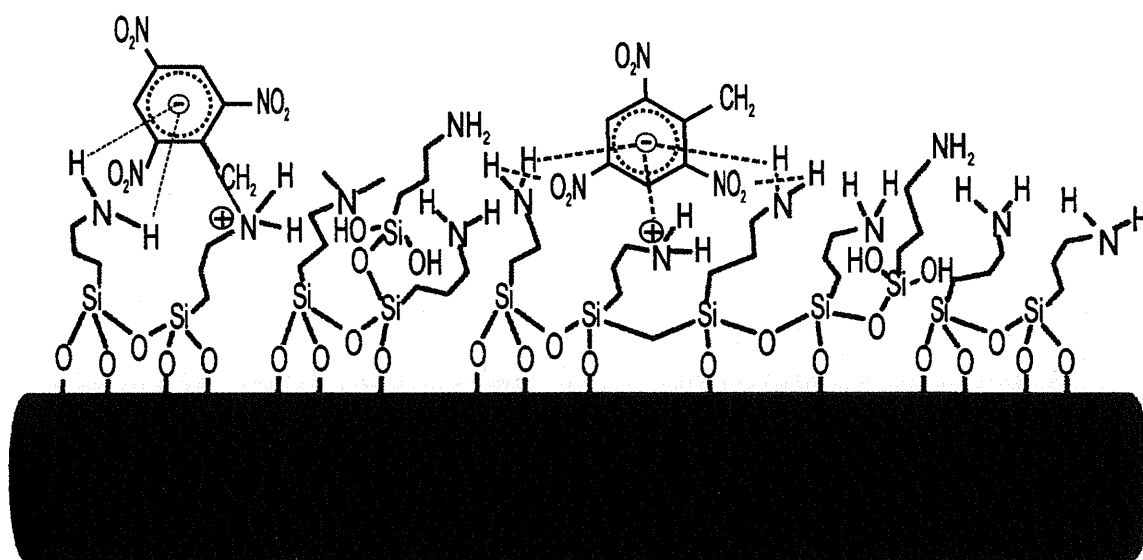


FIG. 2D

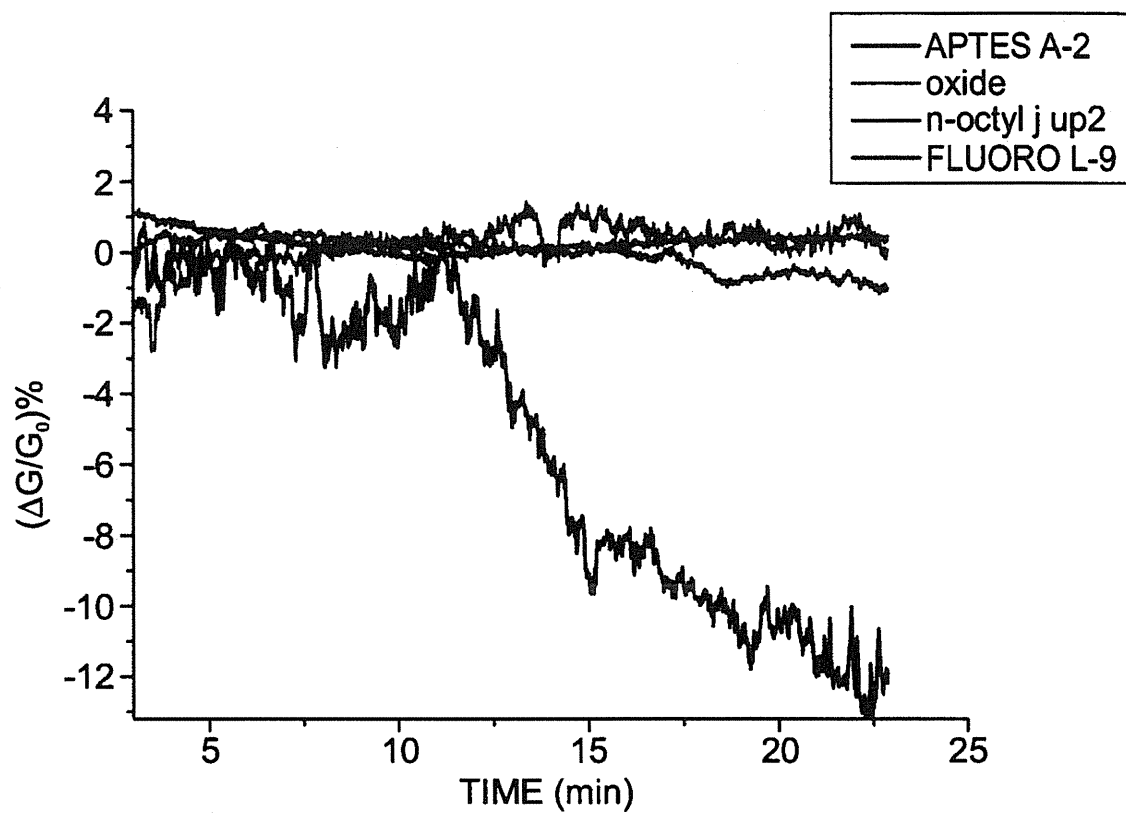


FIG. 3

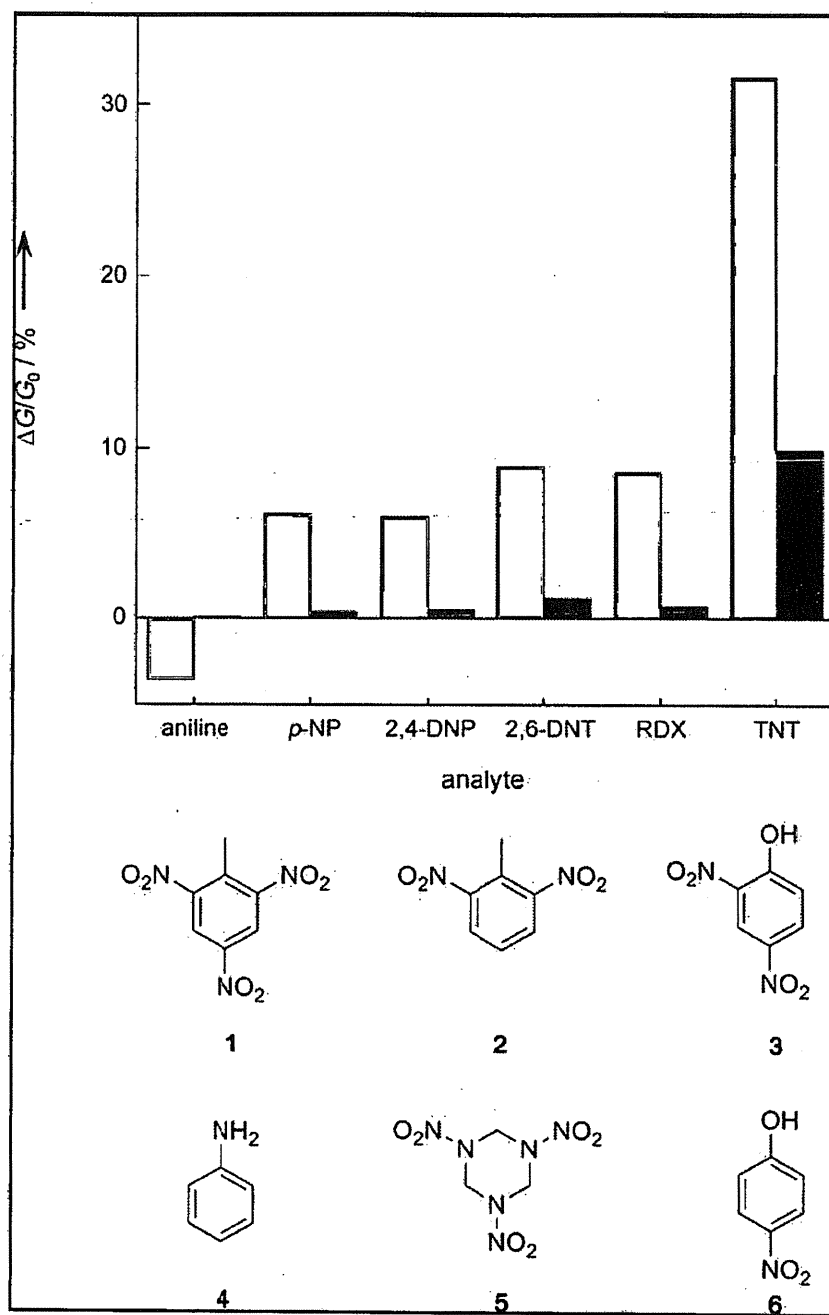


FIG. 4

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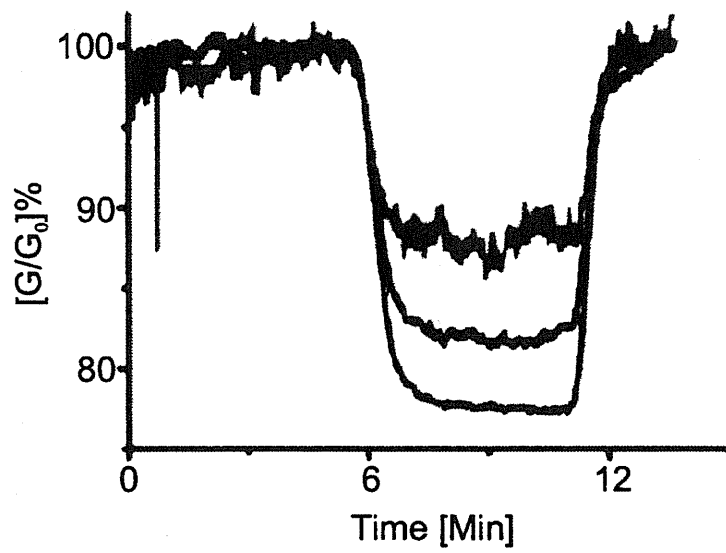


FIG. 5A

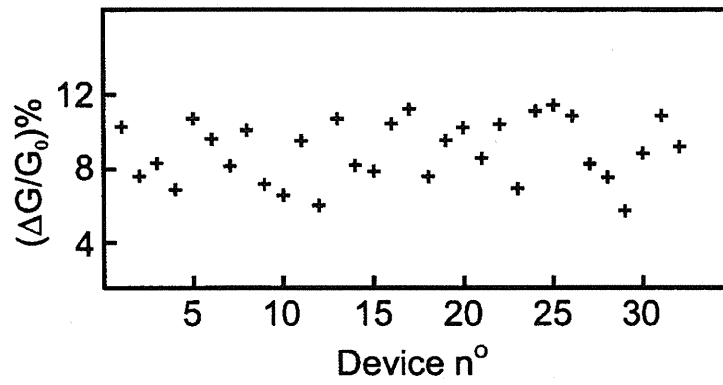


FIG. 5B

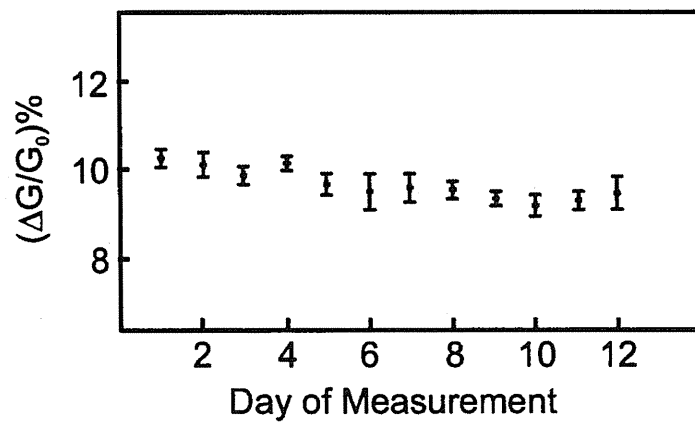


FIG. 5C

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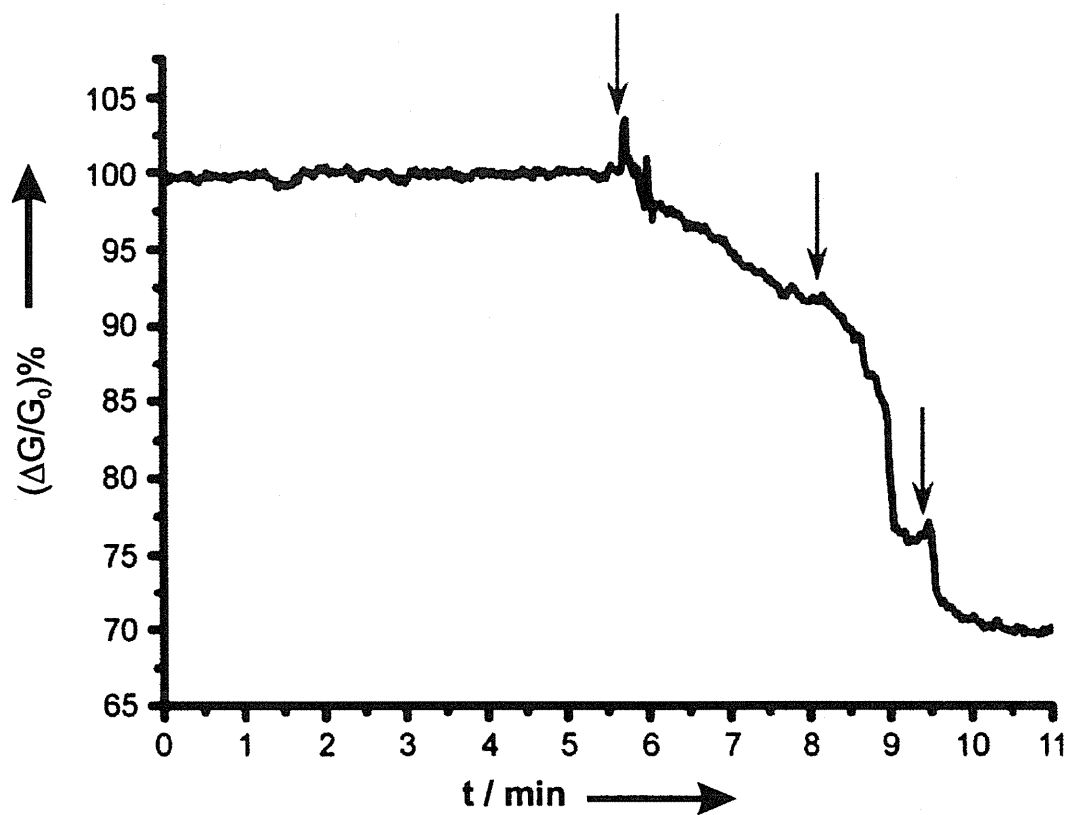


FIG. 6

N-Methylamine TES-modified Nanodevices
5 μ M analytes solutions

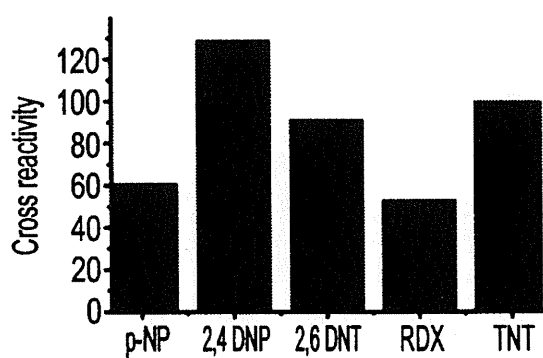


FIG. 7A

APTES-modified Nanodevices
5 μ M analytes solutions

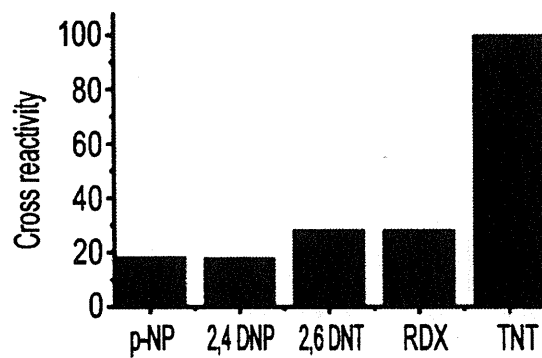


FIG. 7B

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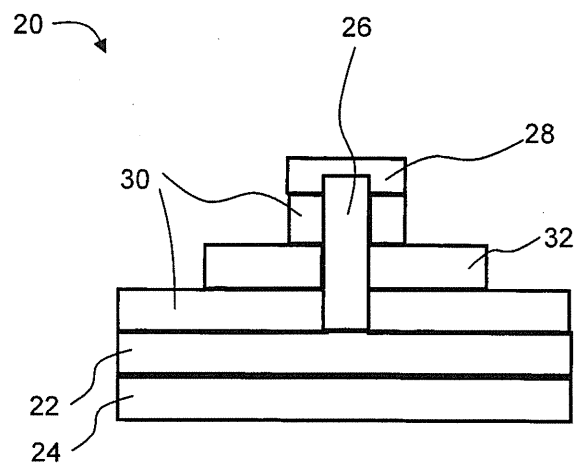


FIG. 8

FIG. 9

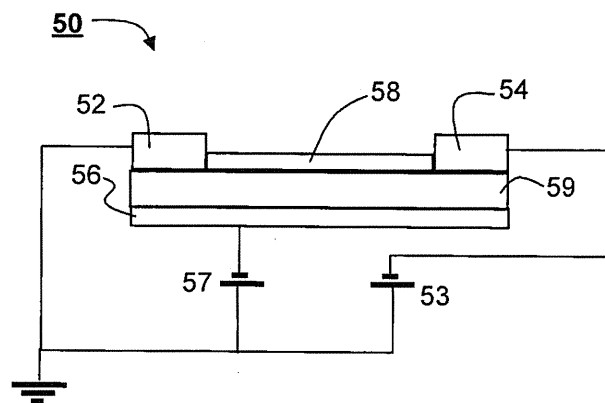


FIG. 10A

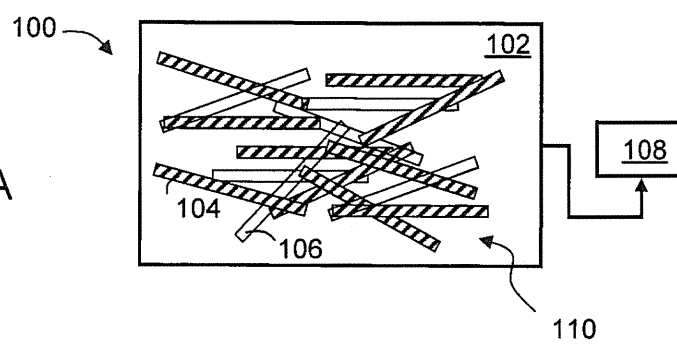
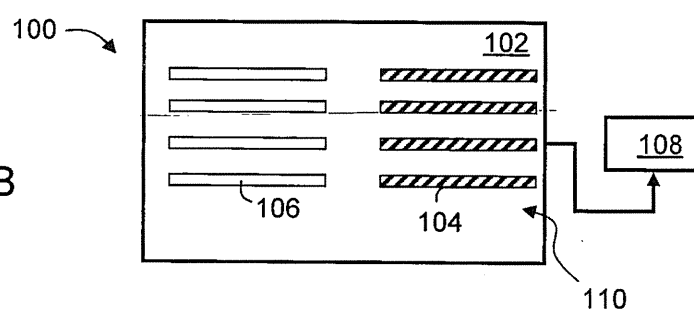
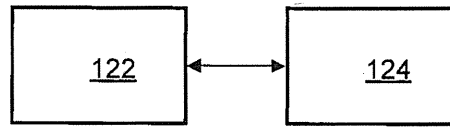


FIG. 10B



120

FIG. 11A



central monitoring unit

200

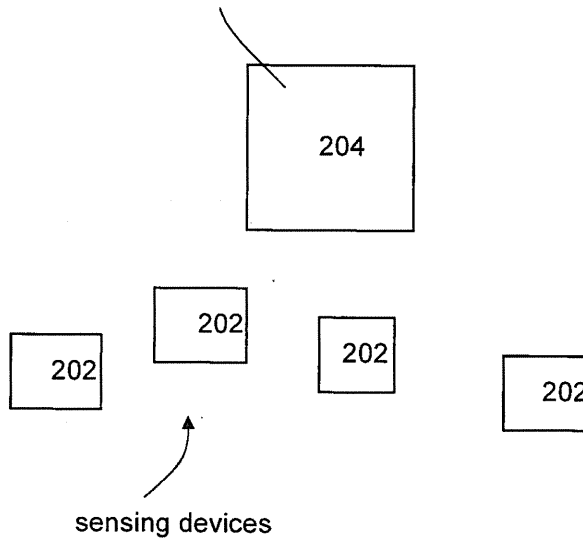


FIG. 11B