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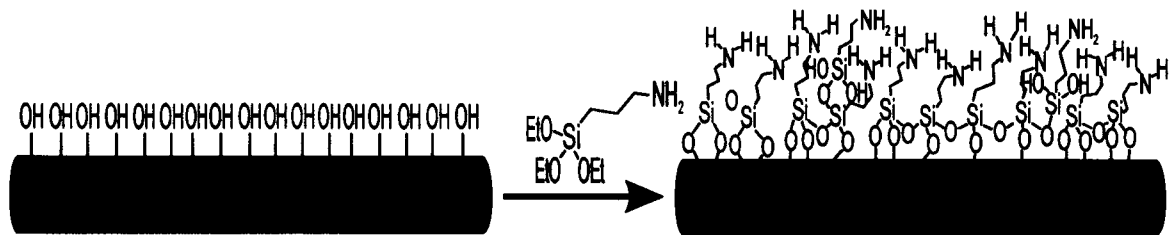


FIG. 1A

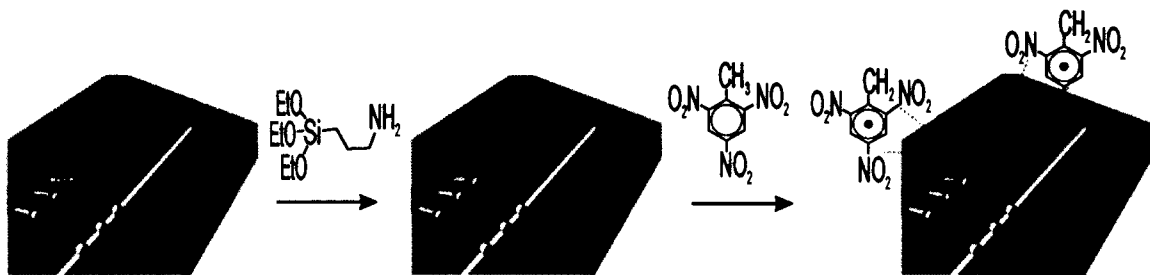


FIG. 1B

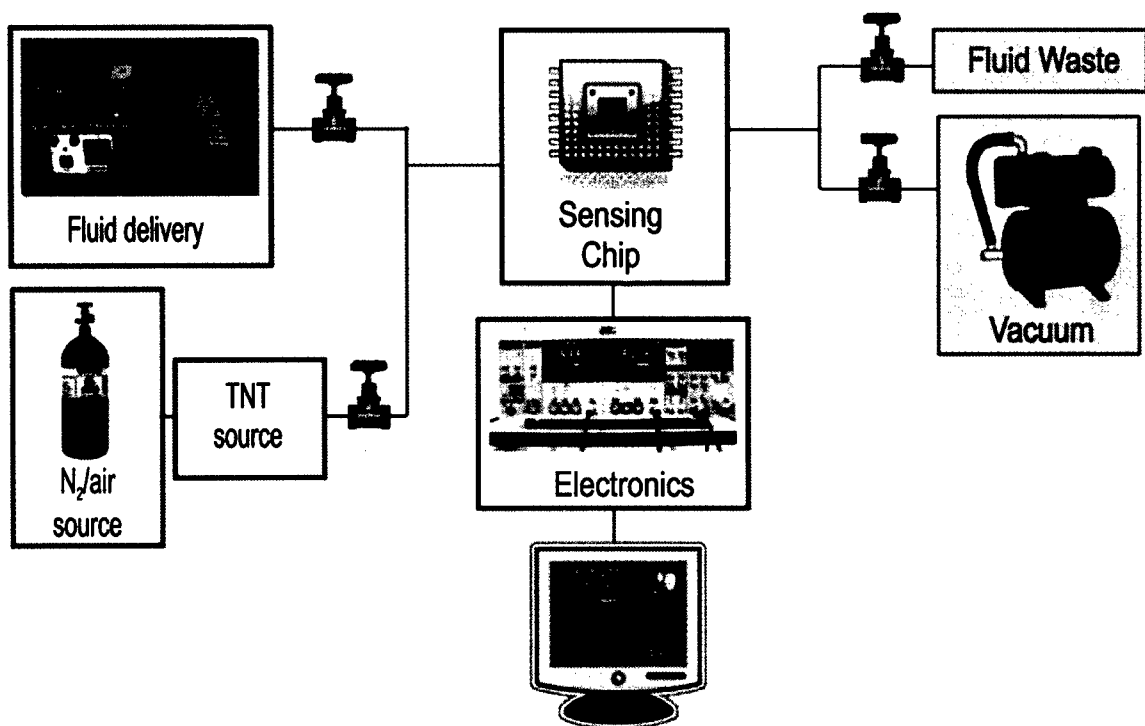
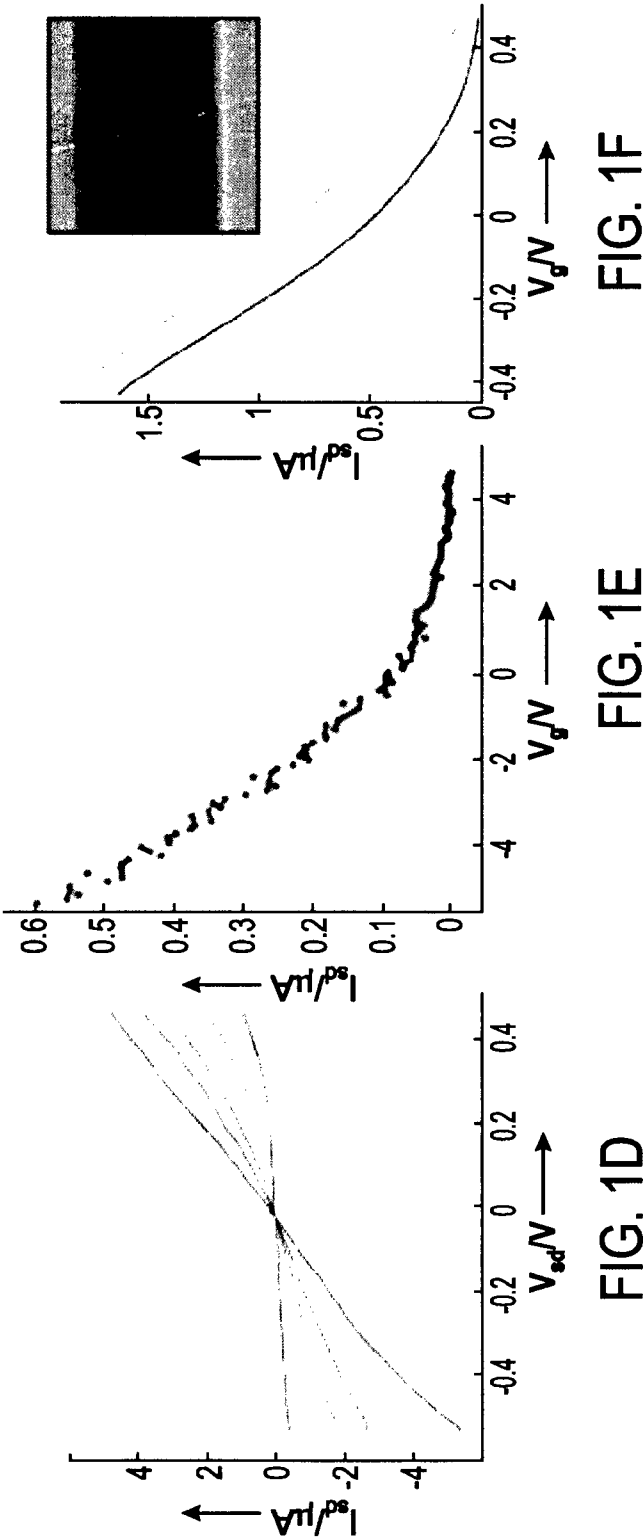


FIG. 1C



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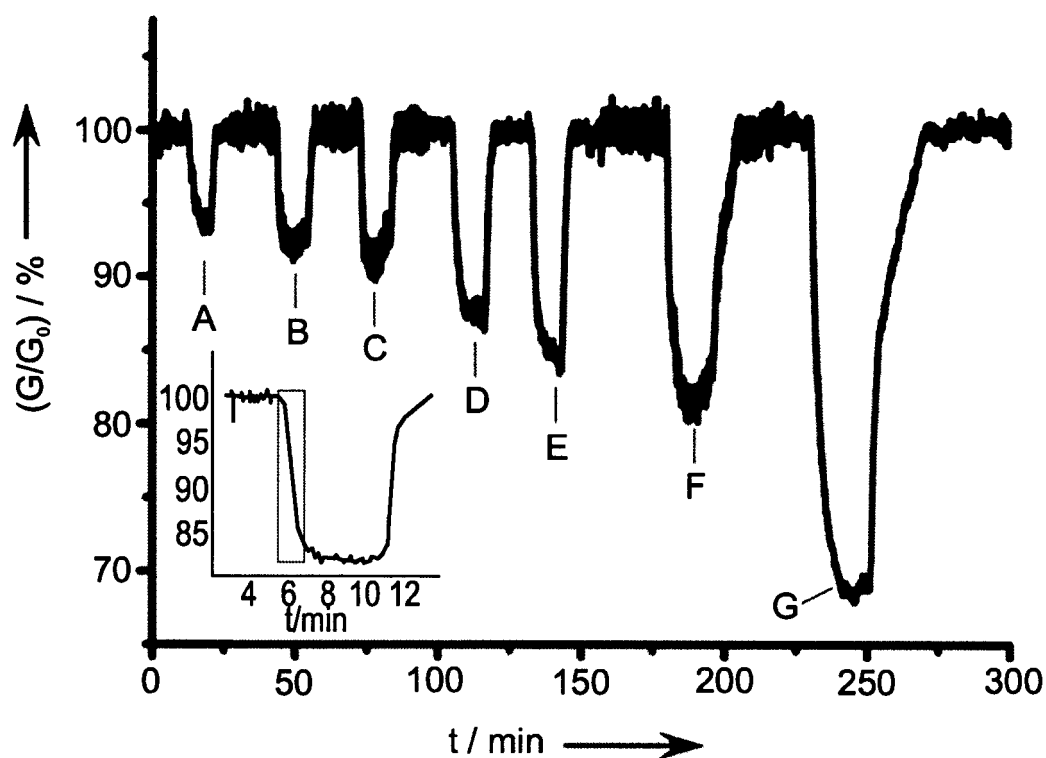


FIG. 2A

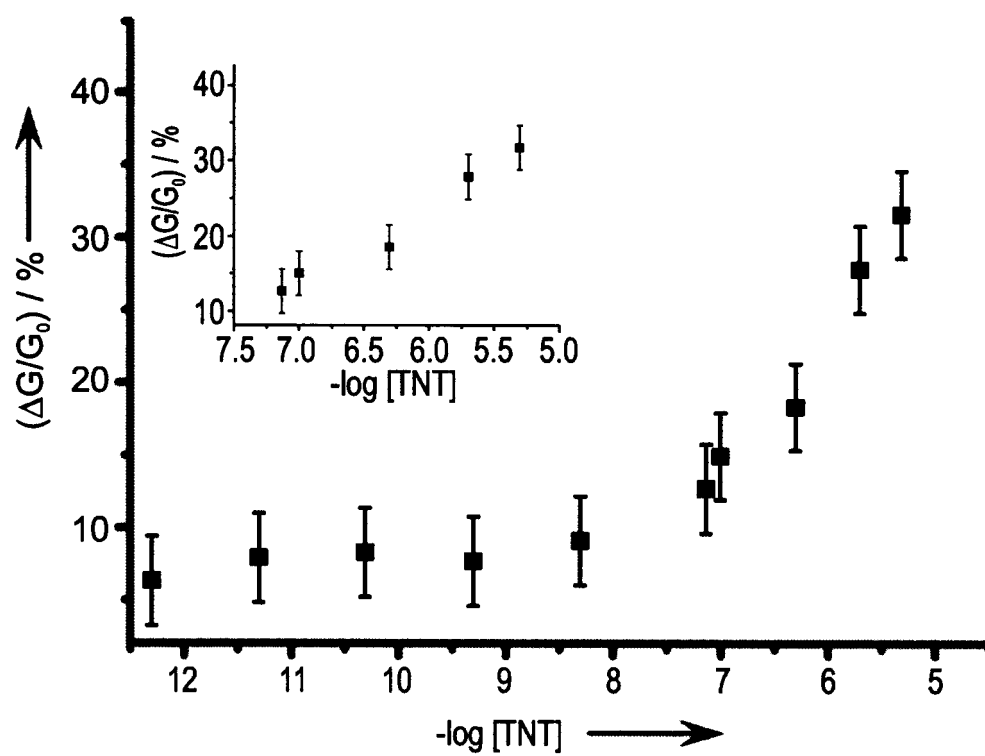


FIG. 2B

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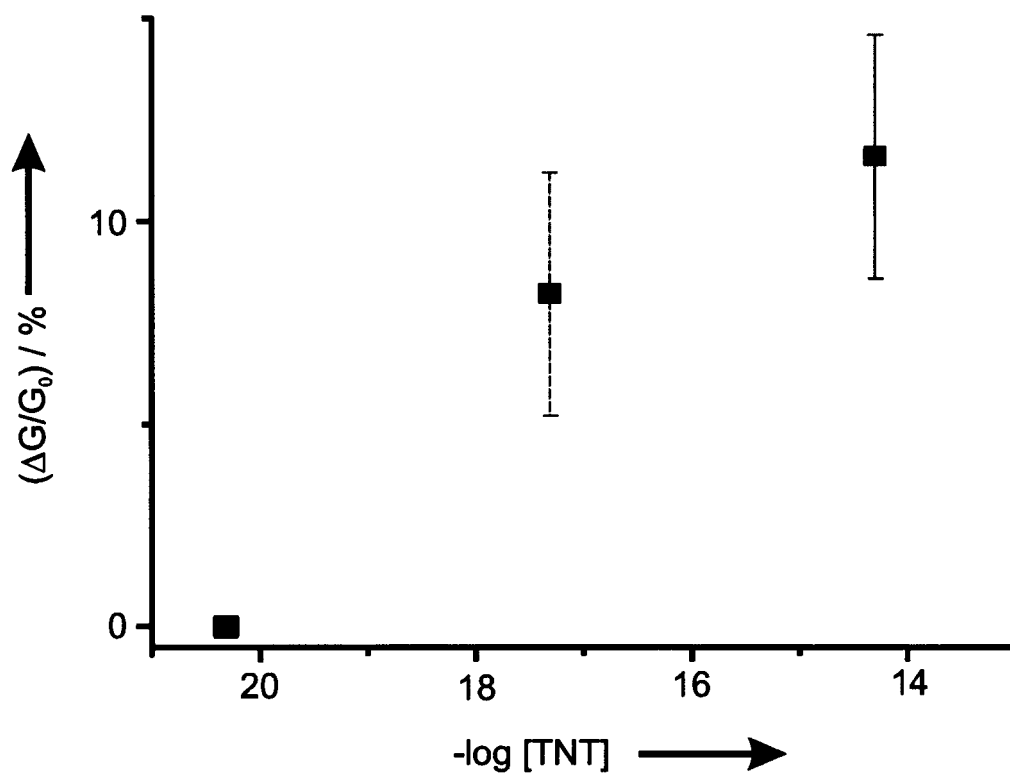


FIG. 2C

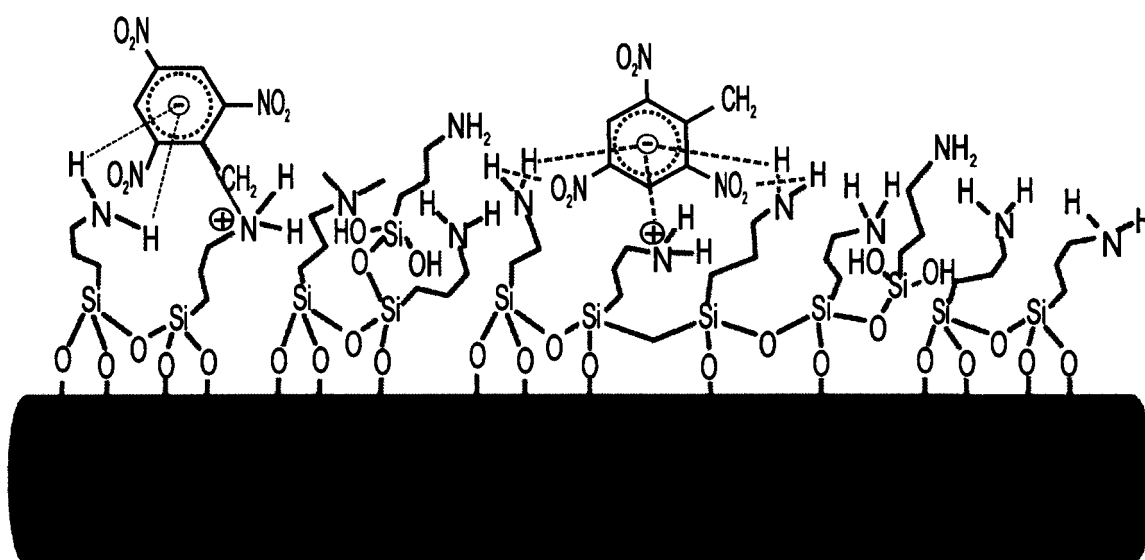


FIG. 2D

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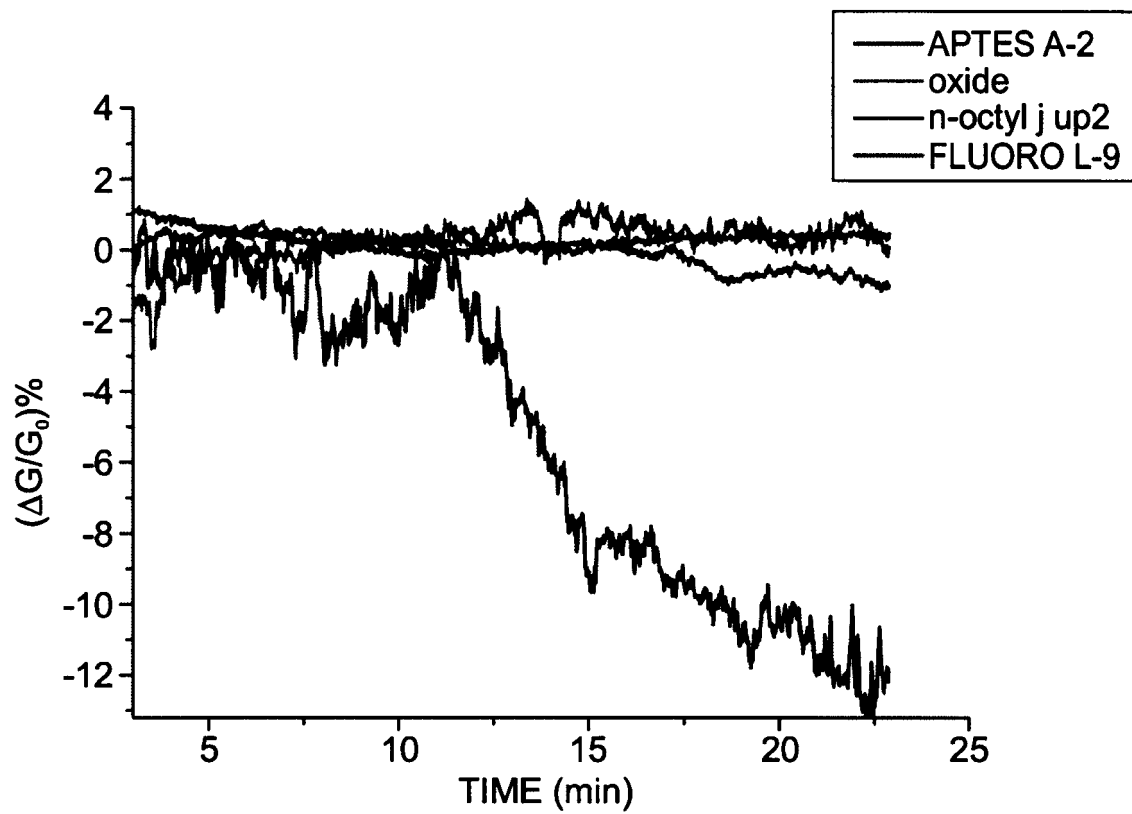


FIG. 3

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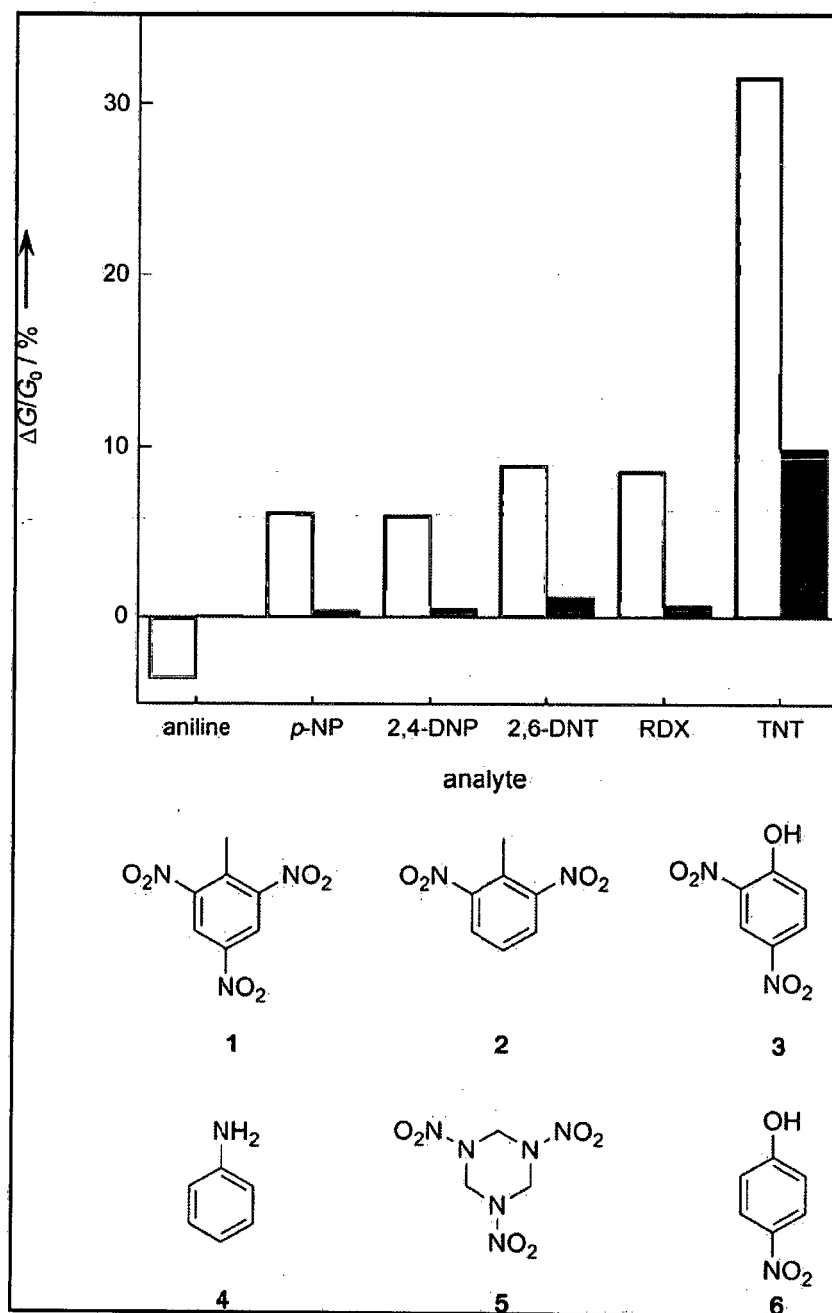


FIG. 4

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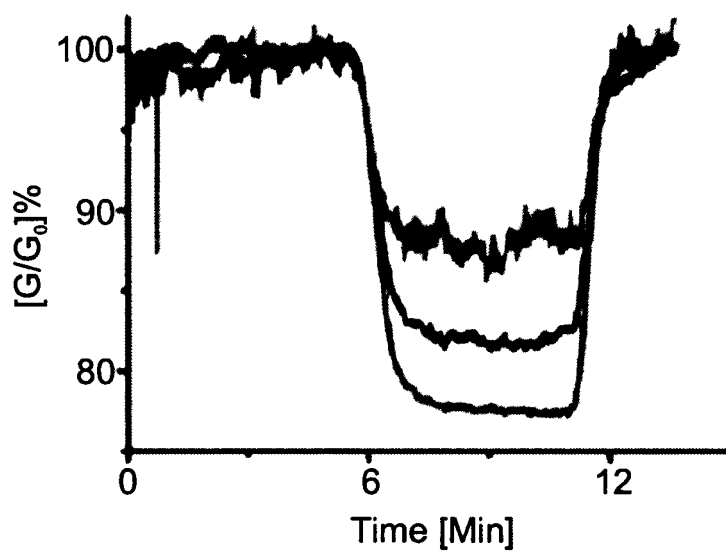


FIG. 5A

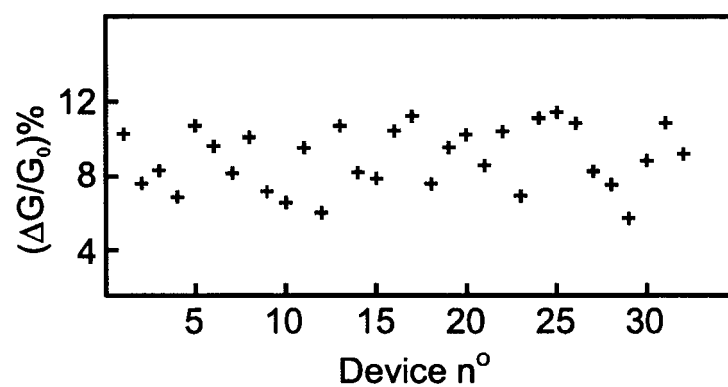


FIG. 5B

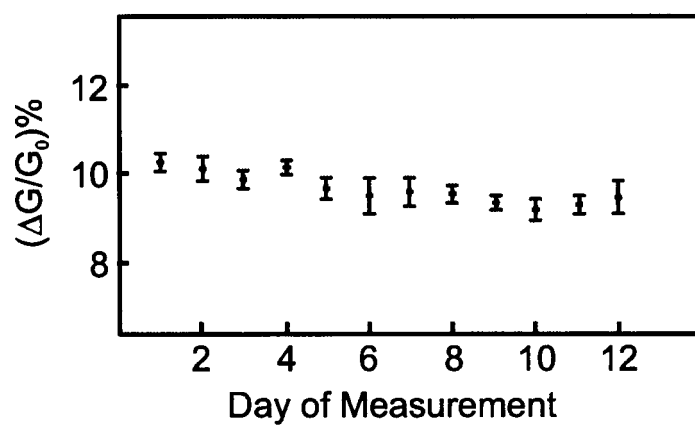


FIG. 5C

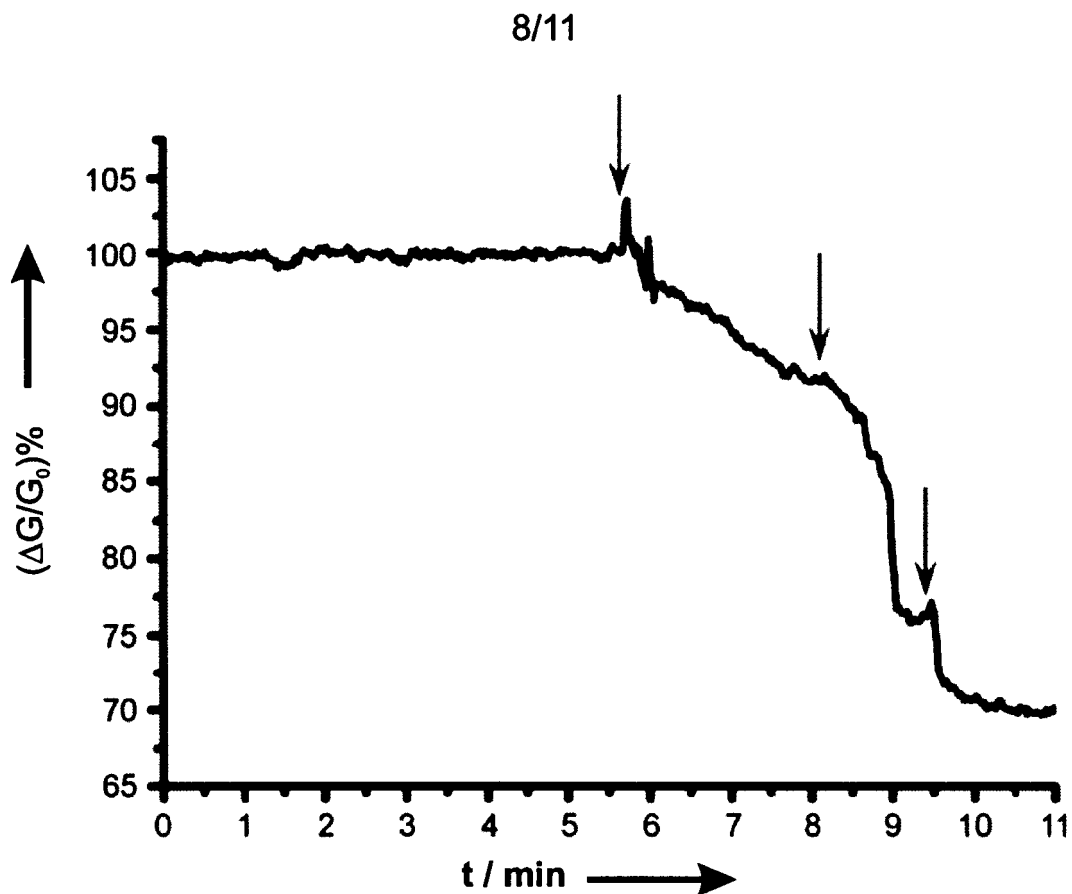


FIG. 6

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

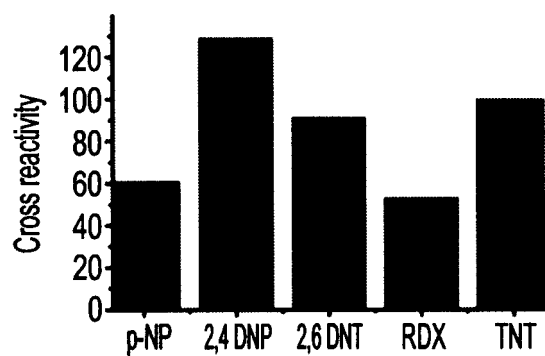


FIG. 7A

APTES-modified Nanodevices
5 μ M analytes solutions

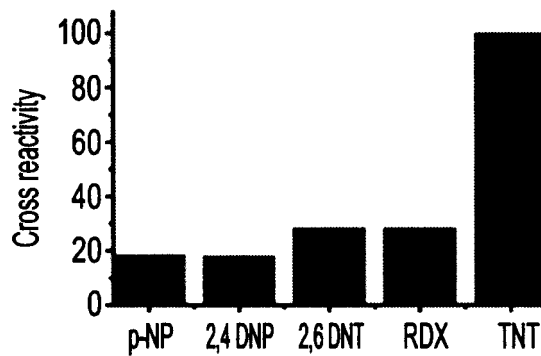


FIG. 7B

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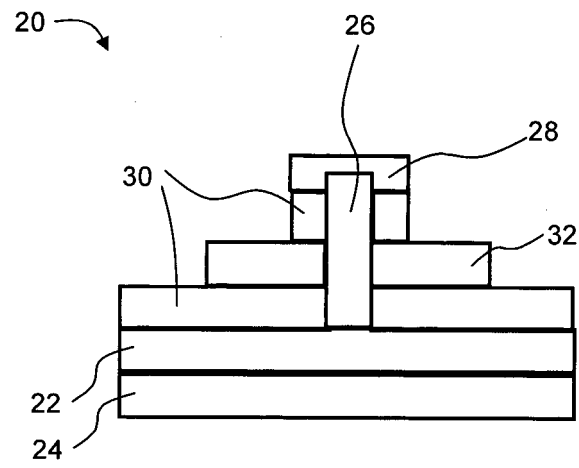
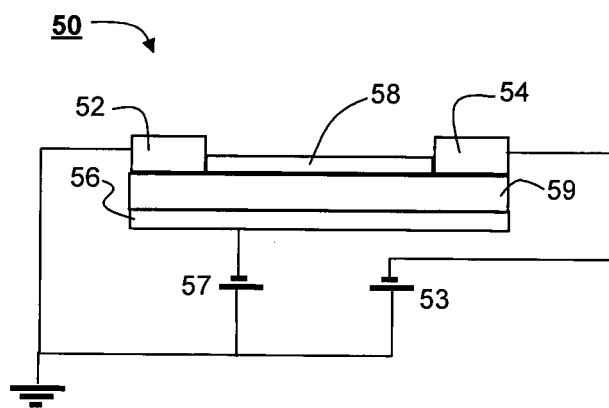


FIG. 8

FIG. 9



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FIG. 10A

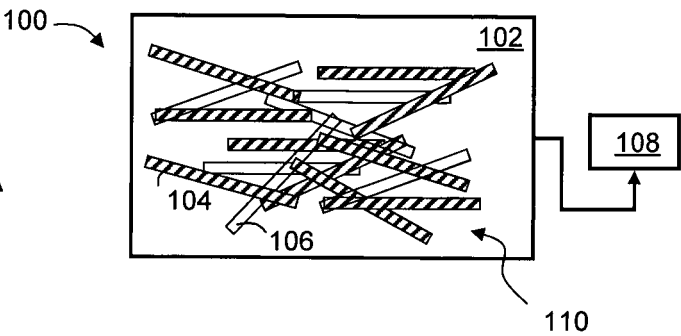
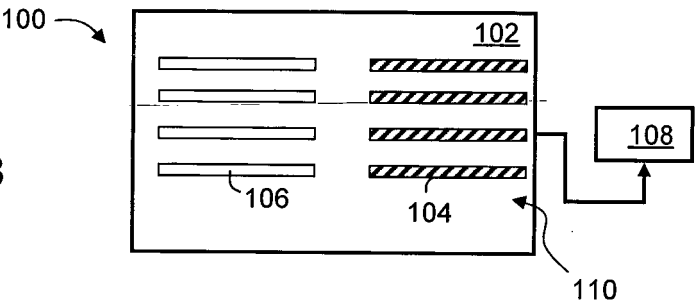


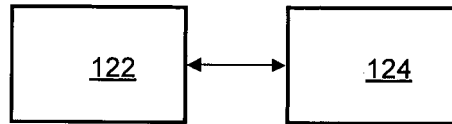
FIG. 10B



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120

FIG. 11A



central monitoring unit

200

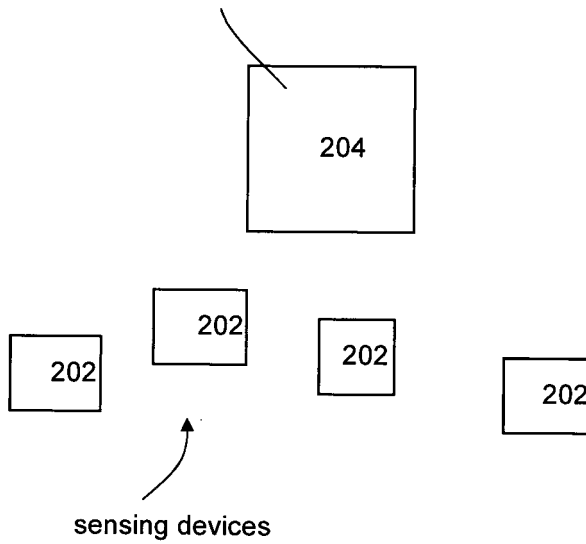


FIG. 11B