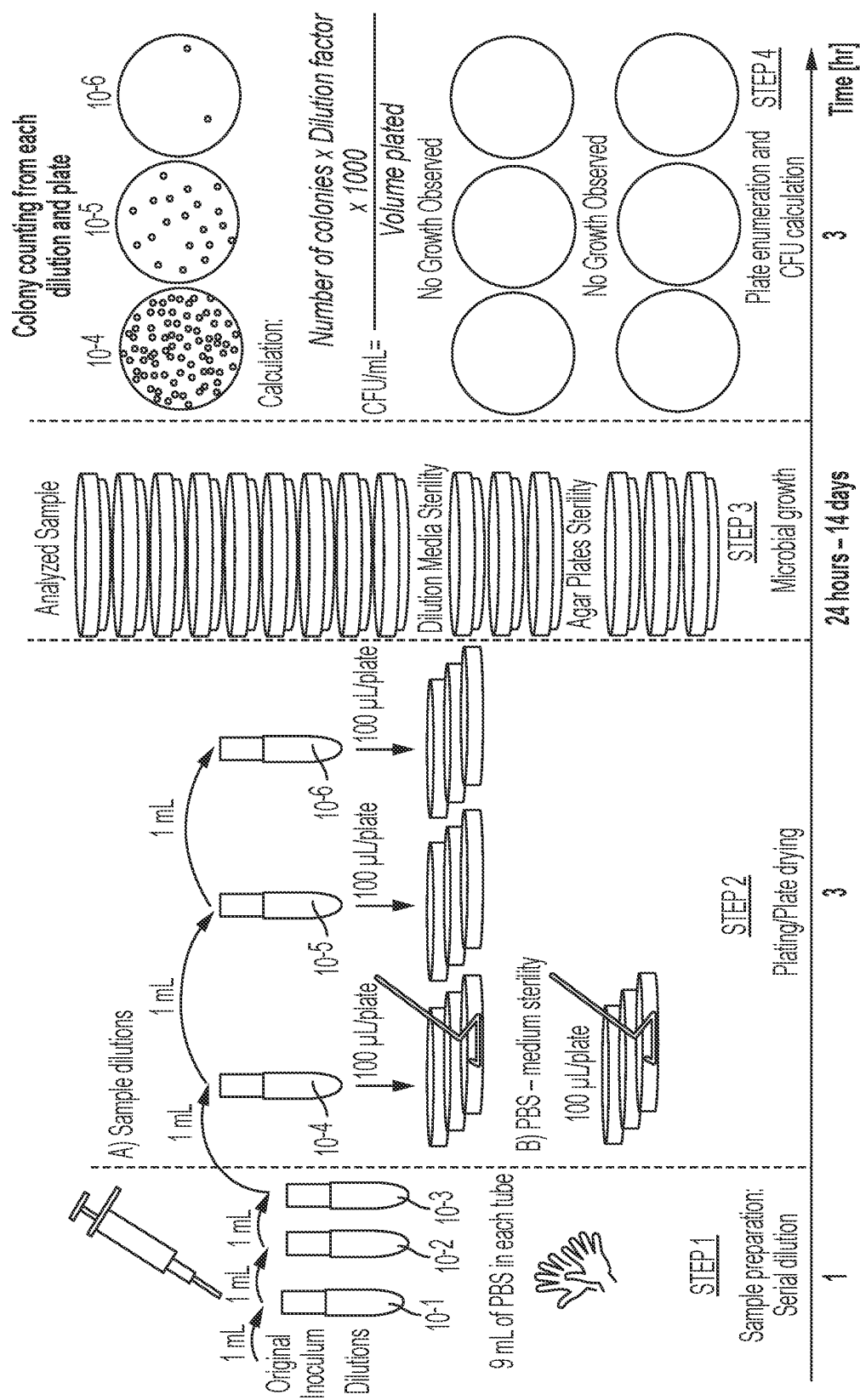
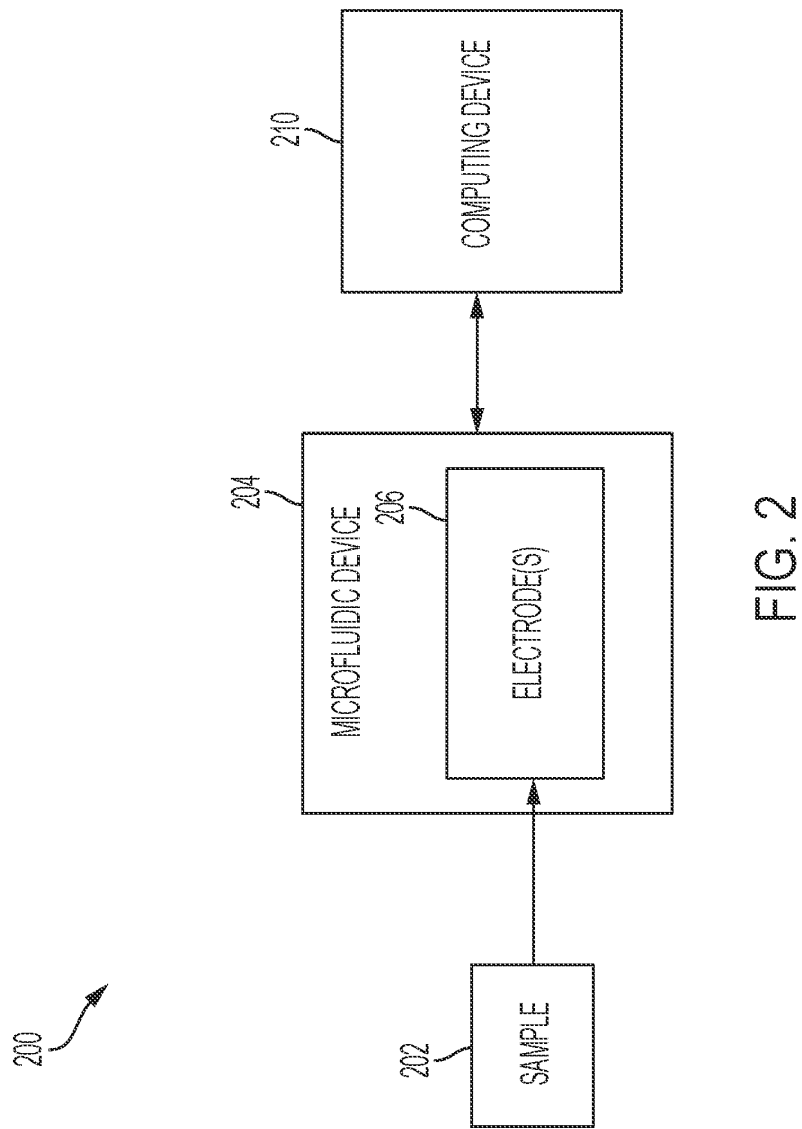





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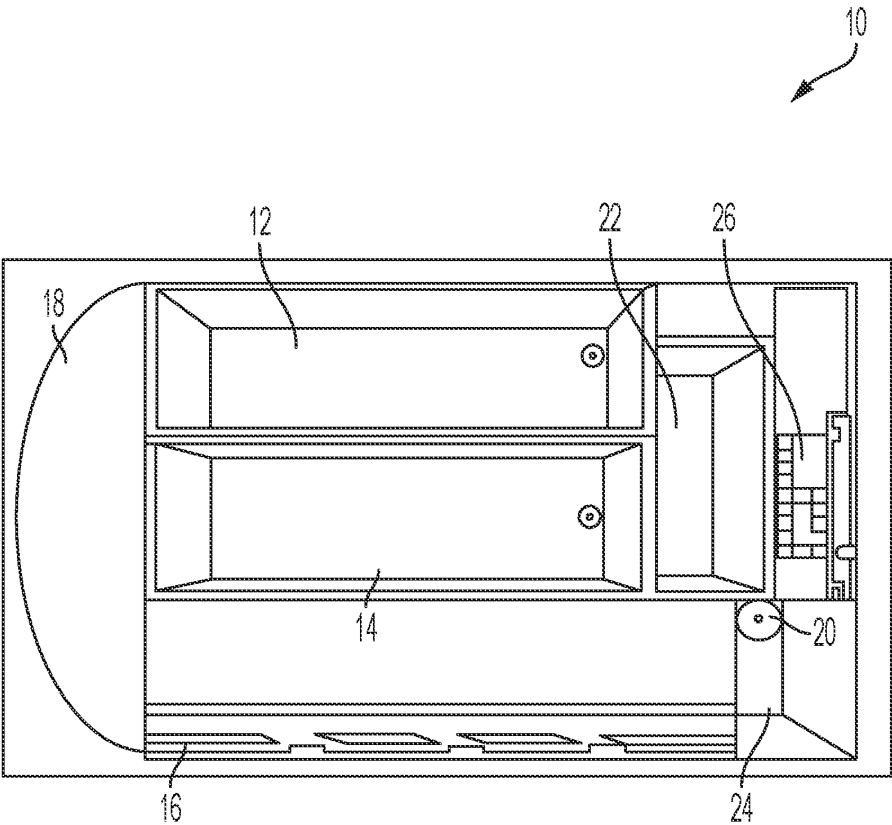


FIG. 3

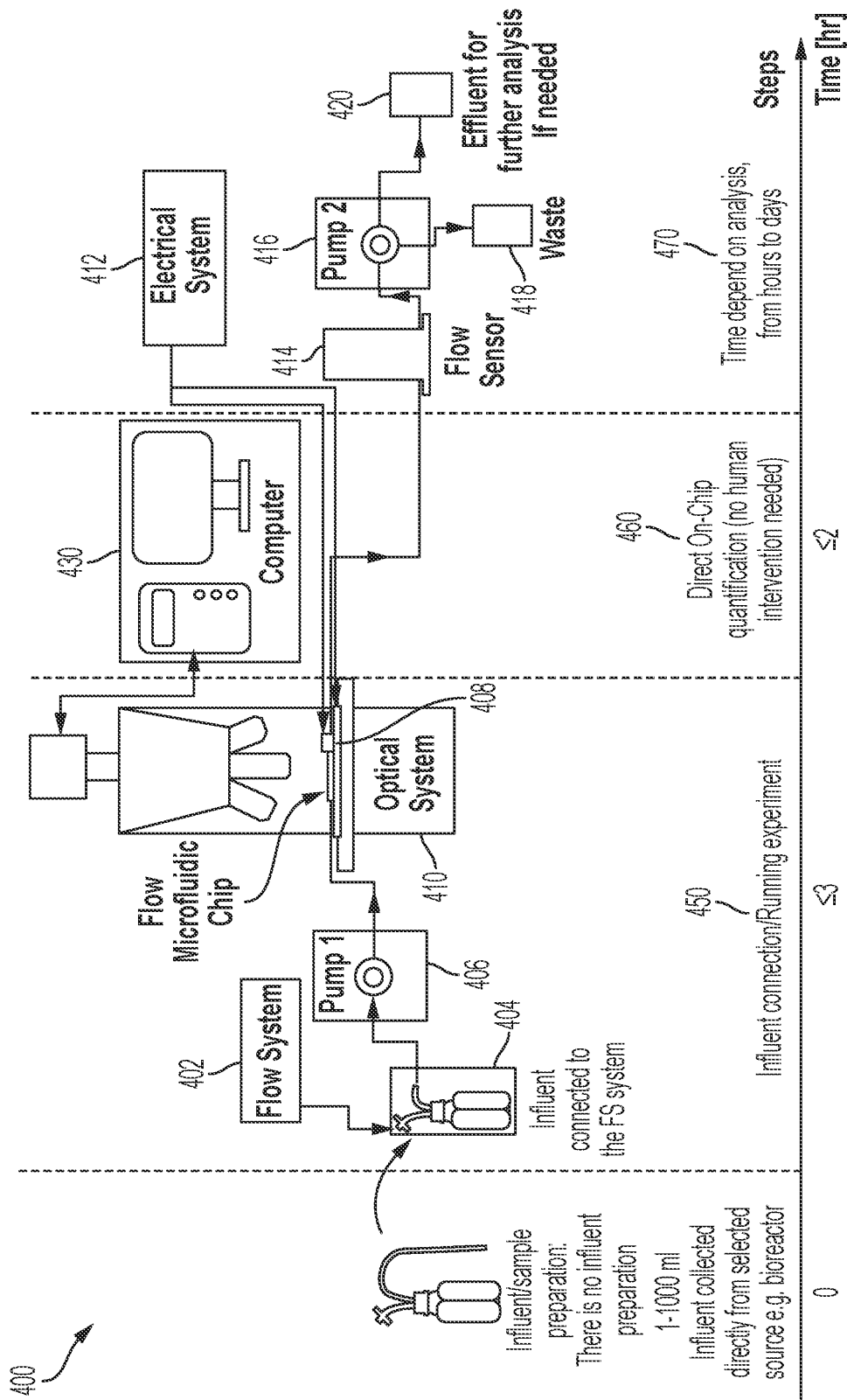


FIG. 4

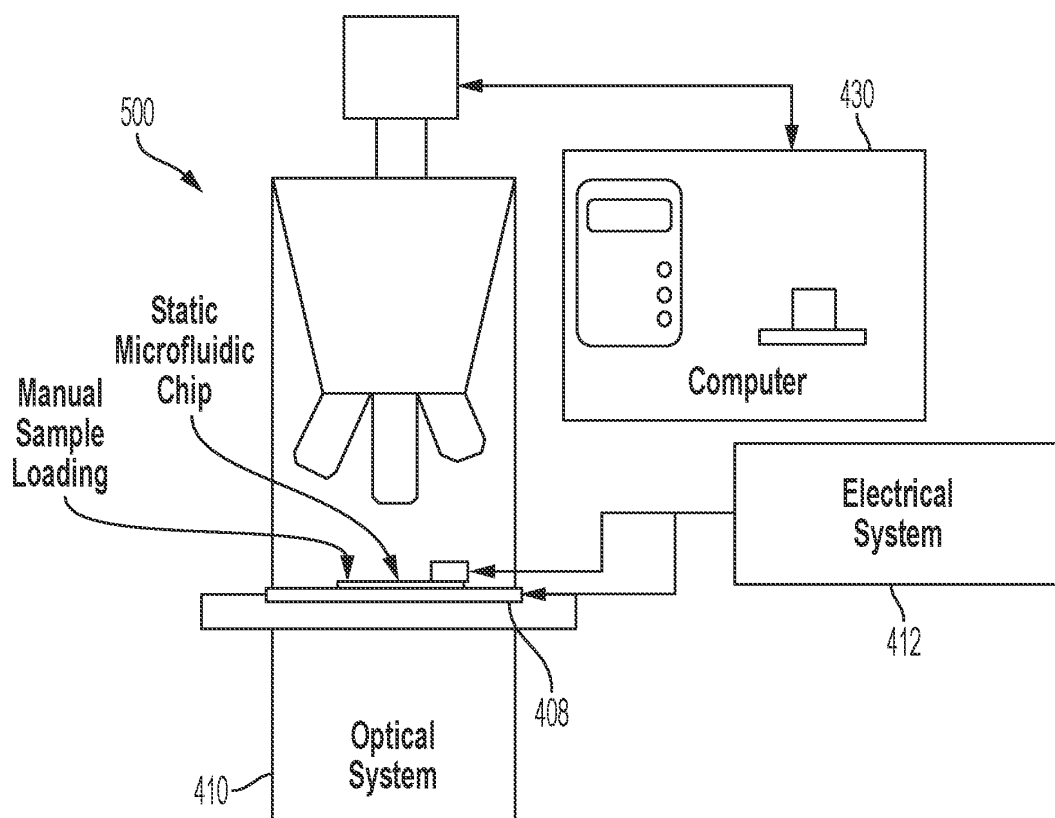


FIG. 5

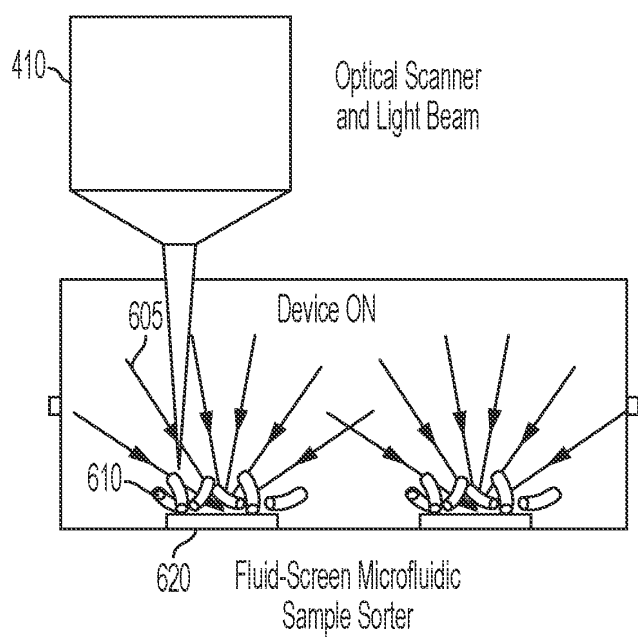


FIG. 6A

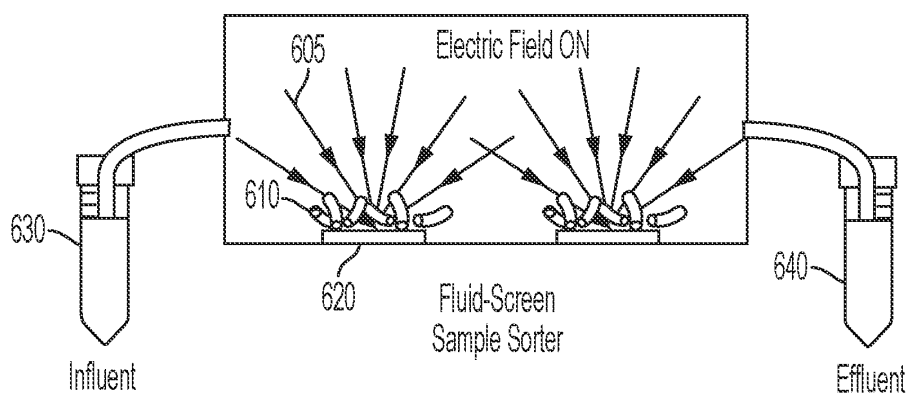


FIG. 6B

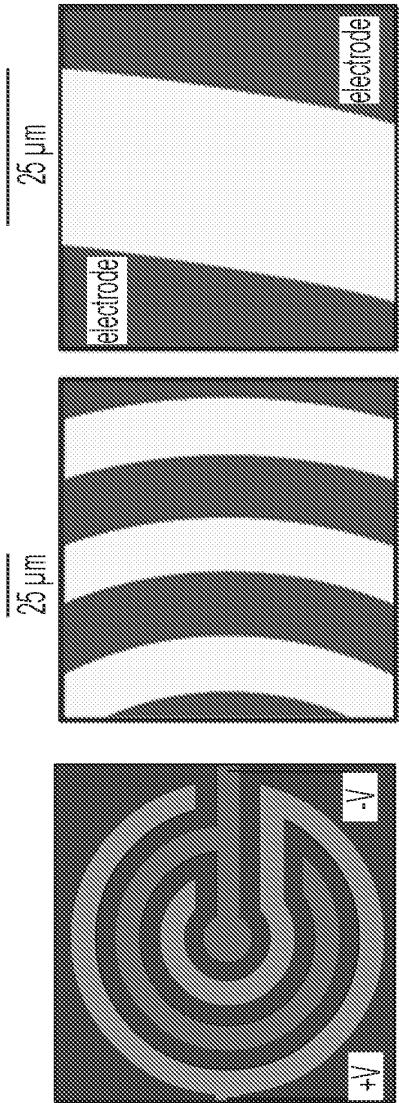


FIG. 7C

FIG. 7B

FIG. 7A

Electric field

OFF

ON

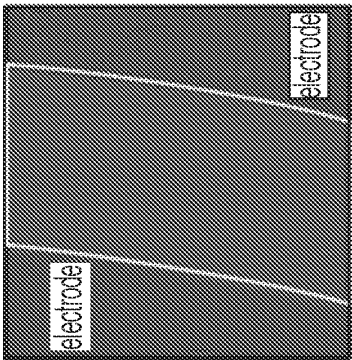


FIG. 7D

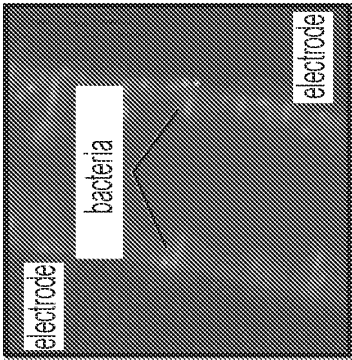


FIG. 7E

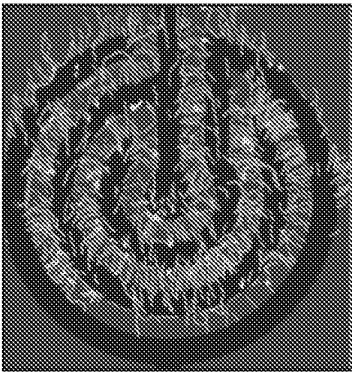


FIG. 7F

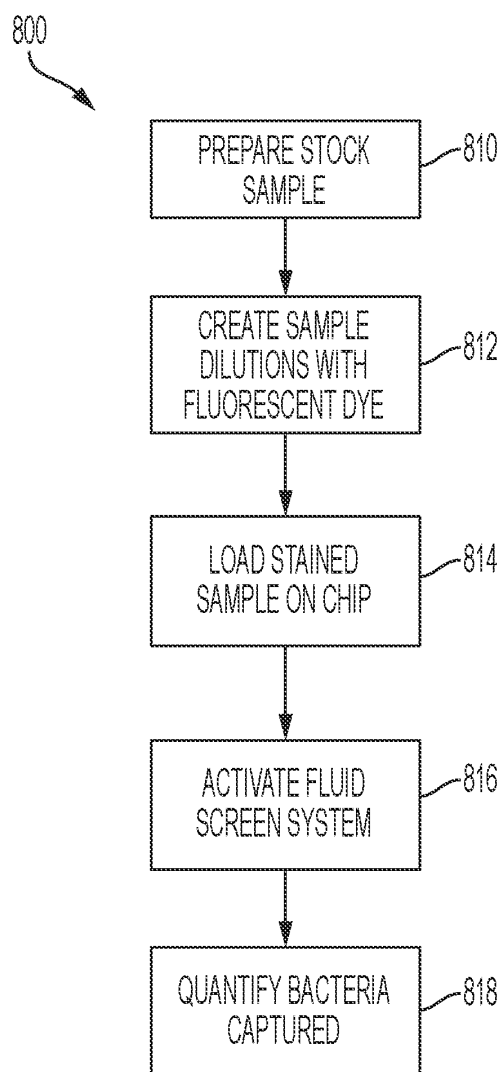


FIG. 8

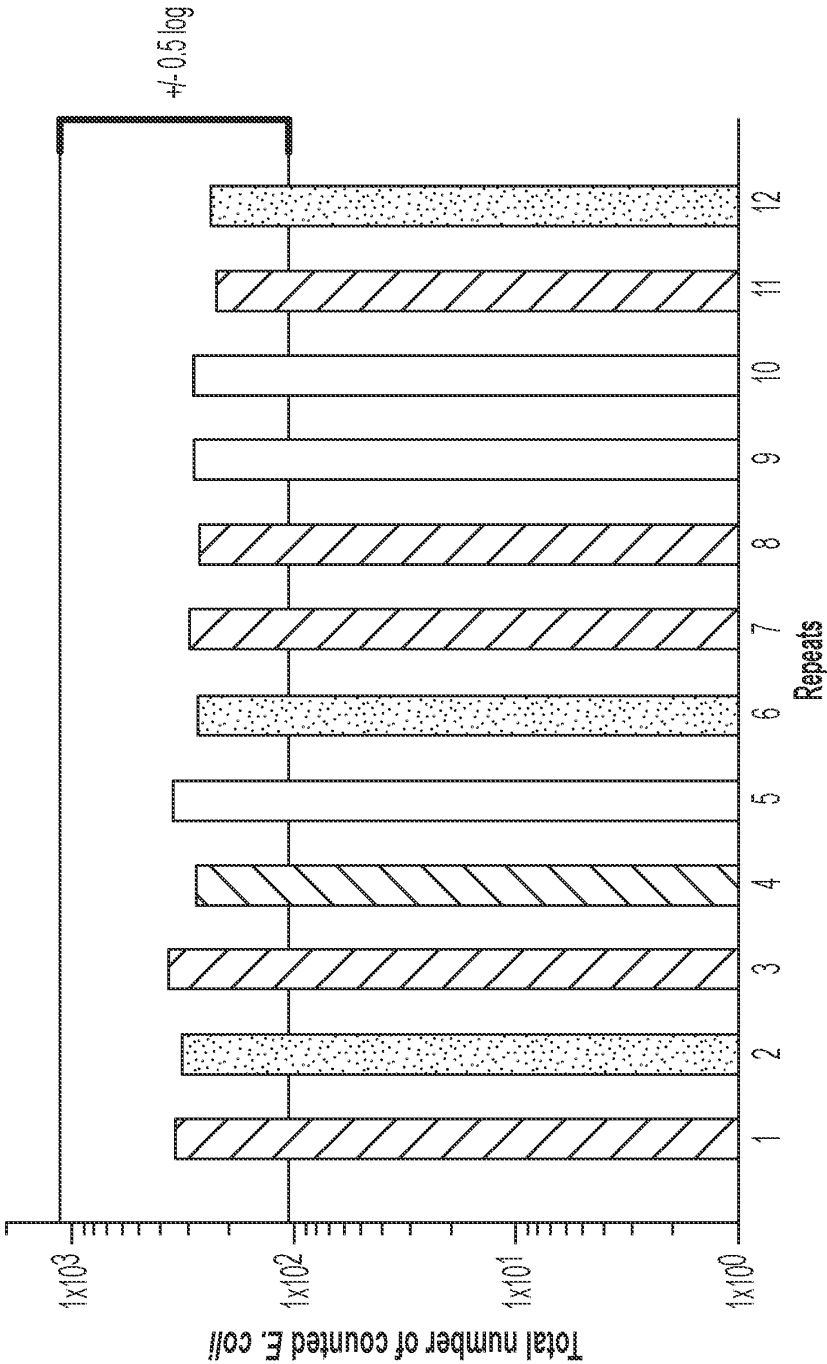


FIG. 9

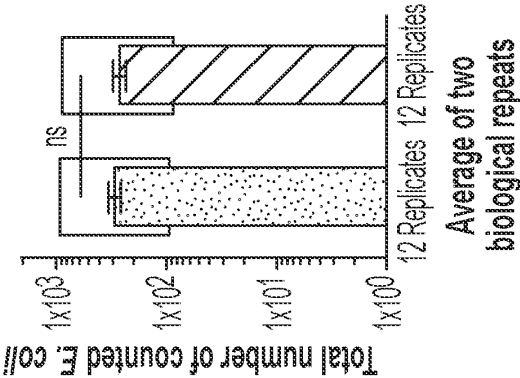


FIG. 10C

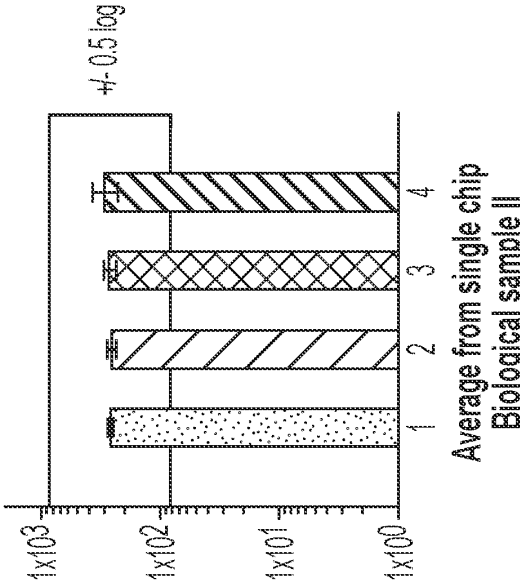


FIG. 10B

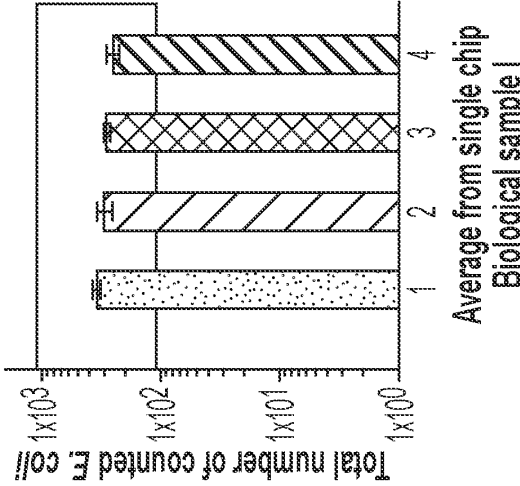


FIG. 10A

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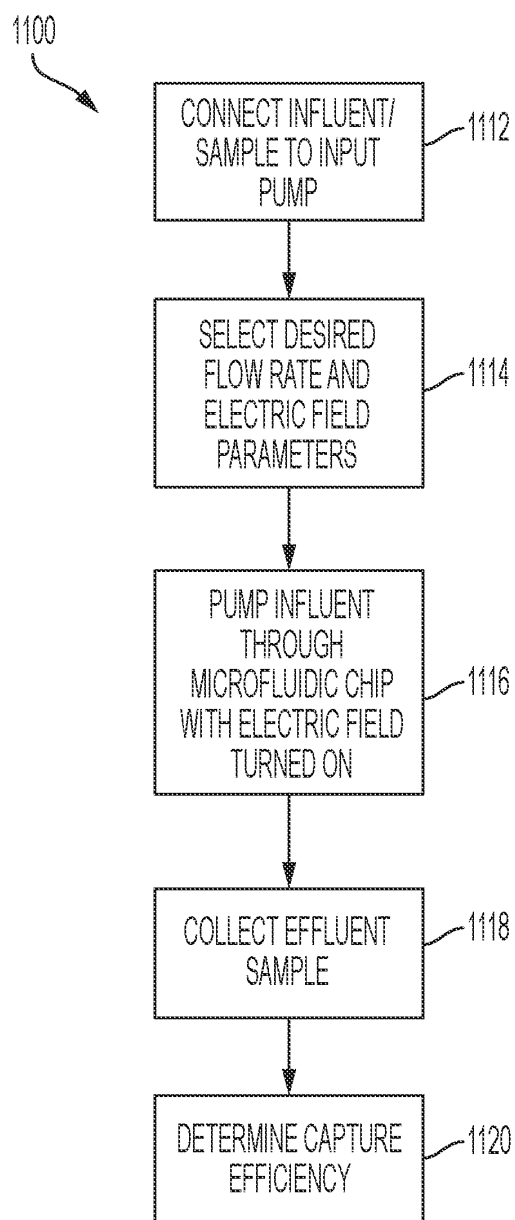


FIG. 11

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Influent Concentration [CFU/ml]	Effluent Concentration [CFU/ml]	Capture Efficiency (%)
8.70E+05	0.00E+00	100%
4.30E+06	6.50E+01	99.9985%
6.60E+06	3.00E+01	99.9995%
1.40E+02	0.0E+00	100%

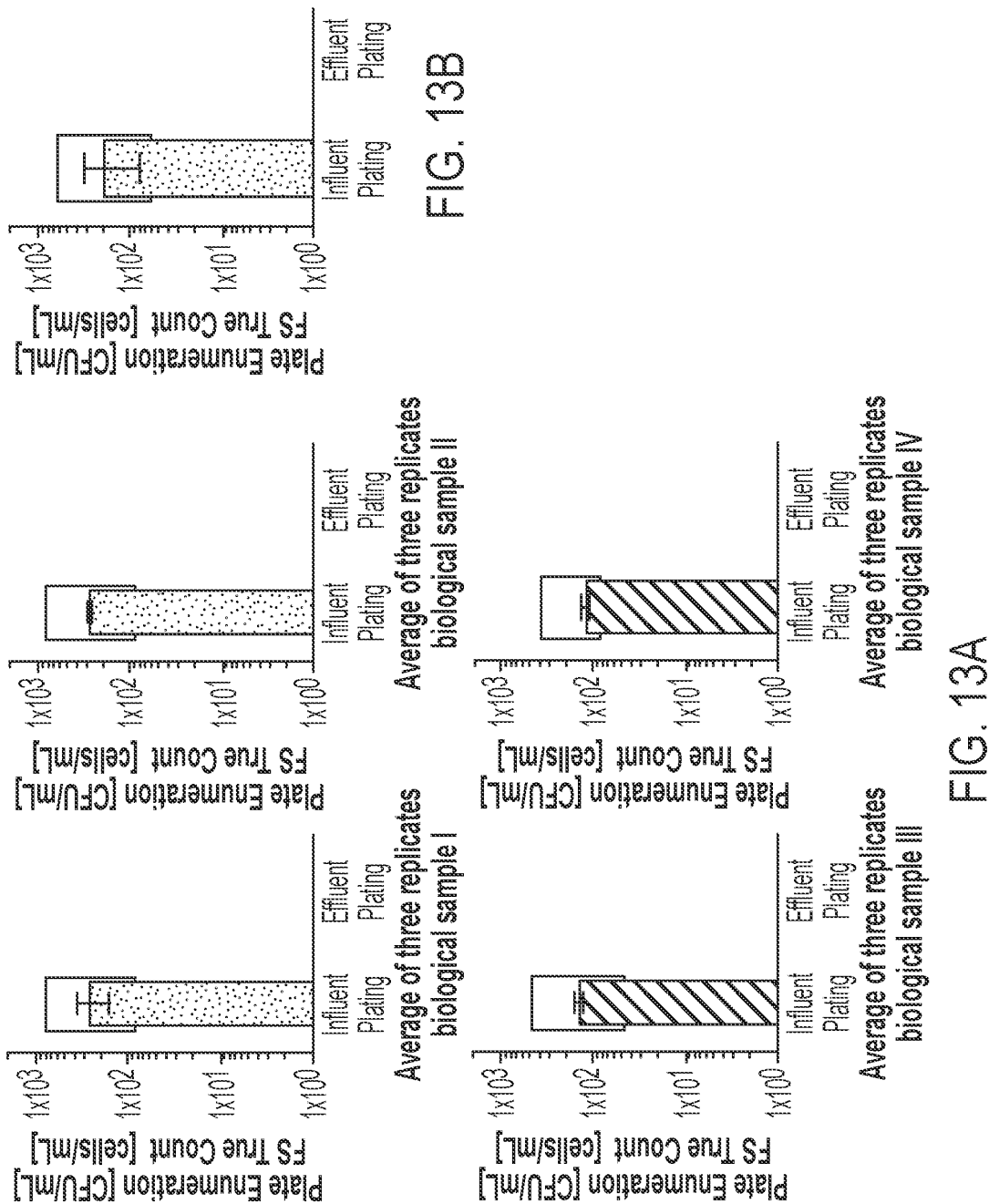
FIG. 12A

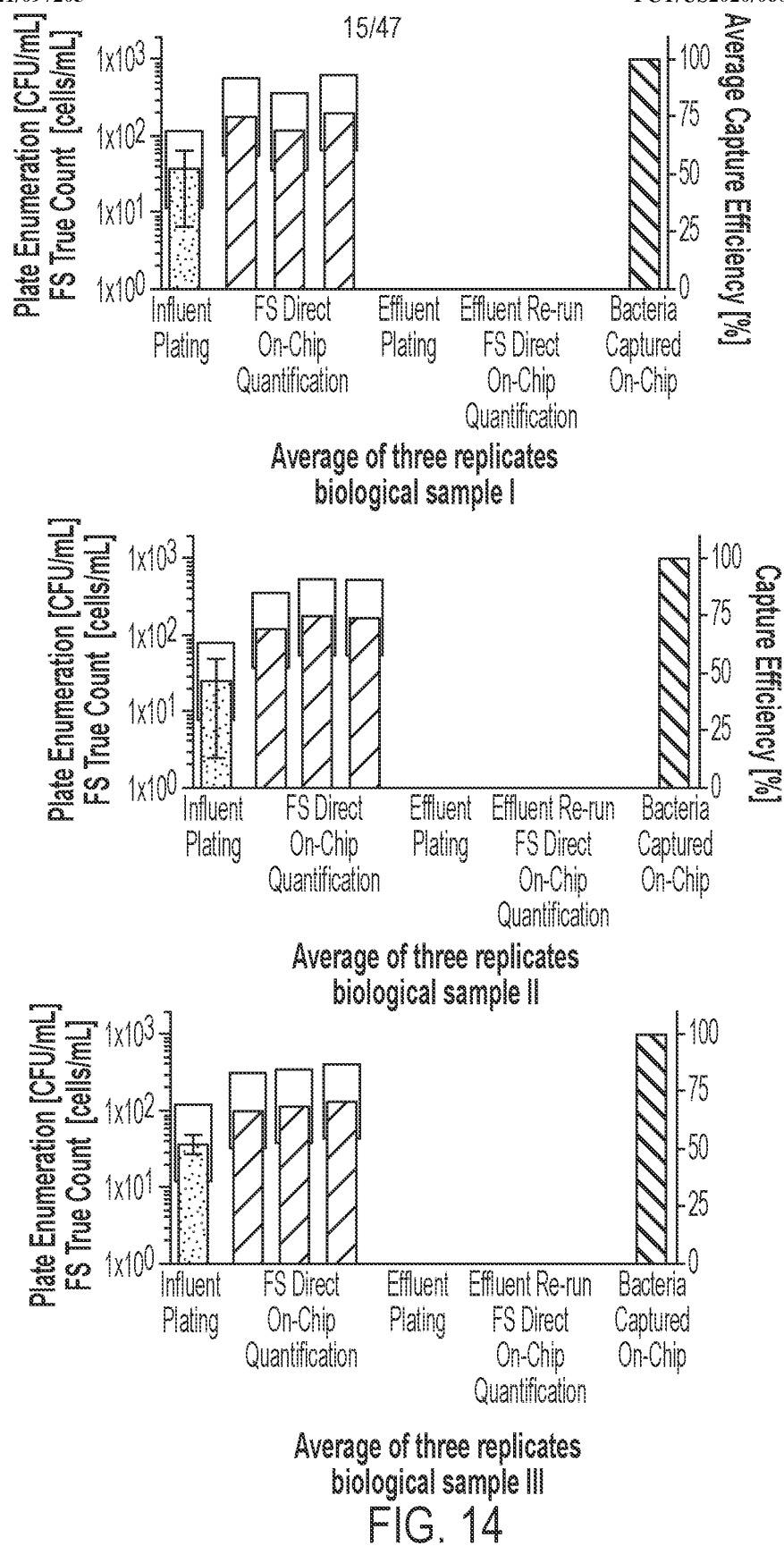
Electric Field	Flow Rate [μl/min]	Influent [CFU/ml]	Effluent [CFU/ml]	Capture Efficiency [%]
Settings 1	240	10 ⁷	0	100.000
Settings 1	240	10 ⁷	10 ²	99.990
Settings 1	240	10 ⁷	10 ¹	99.9996
Settings 1	240	10 ⁷	0	100.00
Settings 1	480	10 ⁷	10 ⁵	99.991
Settings 1	720	10 ⁶	10 ⁴	99.88
Settings 1	720	10 ⁶	10 ³	99.99
Settings 1	720	10 ⁶	10 ²	99.996
Settings 1	720	10 ⁶	10 ³	99.78
Settings 1	840	10 ⁶	10 ³	99.95
Settings 1	960	10 ⁶	10 ⁴	99.61
Settings 1	960	10 ⁶	10 ³	99.97
Settings 1	960	10 ⁶	10 ³	99.96
Settings 1	1080	10 ⁶	10 ⁶	85.15
Settings 1	1080	10 ⁶	10 ⁴	98.62

FIG. 12B

Electric Field	Flow Rate [μl/min]	Influent [CFU/ml]	Effluent [CFU/ml]	Capture Efficiency [%]
Settings 2	216	10 ⁷	10 ³	99.94
Settings 2	216	10 ⁶	10 ²	99.997
Settings 2	216	10 ⁶	10 ³	99.79
Settings 2	216	10 ⁶	10 ³	99.91
Settings 2	240	10 ⁷	10 ⁴	99.67
Settings 2	264	10 ⁷	10 ⁴	99.57
Settings 2	288	10 ⁷	10 ⁵	98.5
Settings 2	312	10 ⁷	10 ⁵	98.83
Settings 2	336	10 ⁶	10 ⁵	95.71
Settings 2	336	10 ⁷	10 ⁵	98.84
Settings 2	360	10 ⁶	10 ⁵	95.806
Settings 2	384	10 ⁶	10 ⁵	95.269
Settings 2	408	10 ⁶	10 ⁵	93.011
Settings 2	432	10 ⁶	10 ⁵	92.473
Settings 2	456	10 ⁶	10 ⁵	86.559
Settings 2	480	10 ⁶	10 ⁵	87.41
Settings 2	600	10 ⁶	10 ⁶	82.14
Settings 2	720	10 ⁶	10 ⁶	86.455
Settings 2	840	10 ⁶	10 ⁶	83.704

FIG. 12C





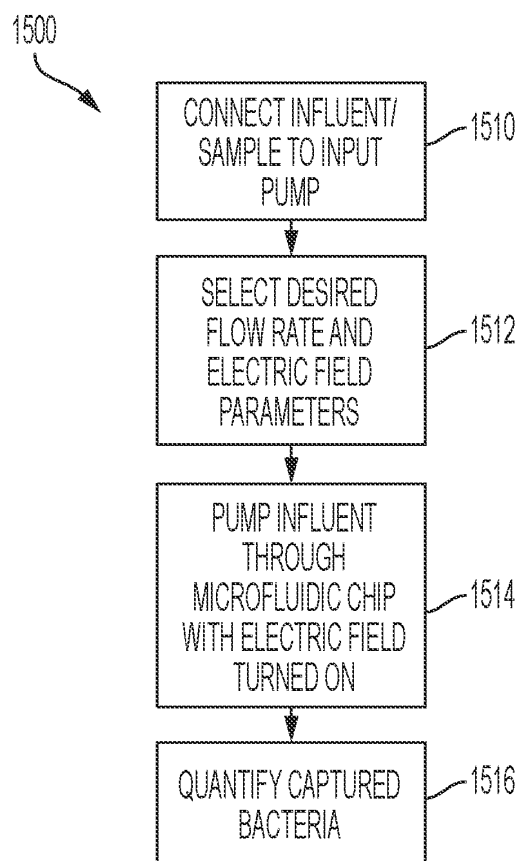
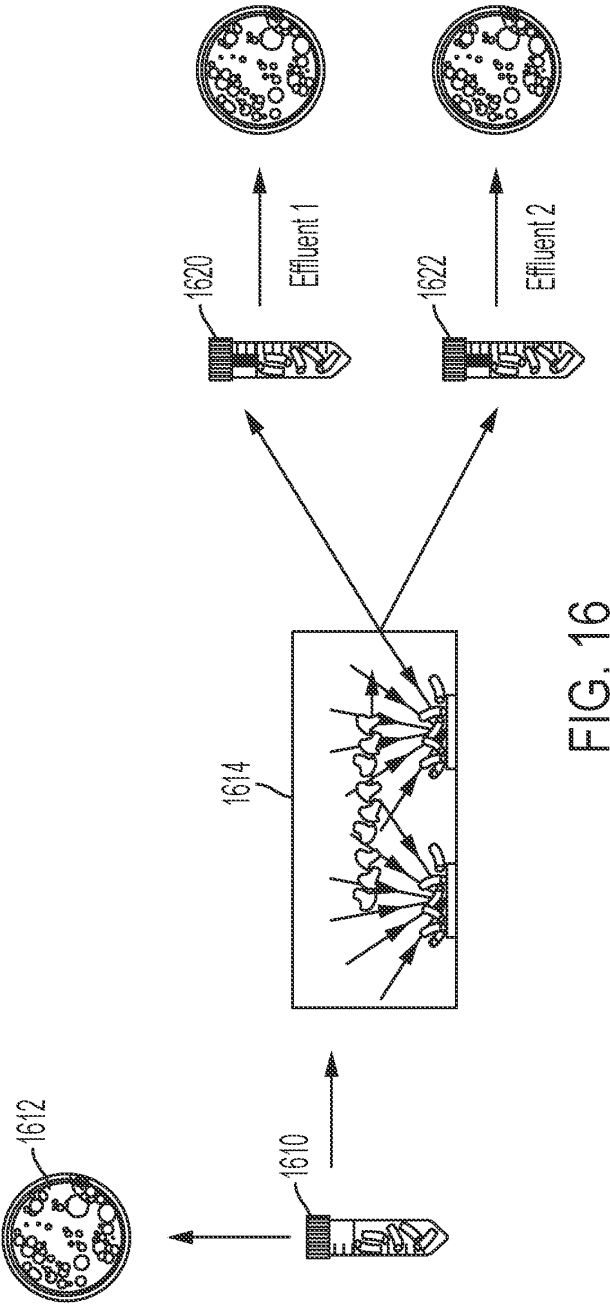


FIG. 15



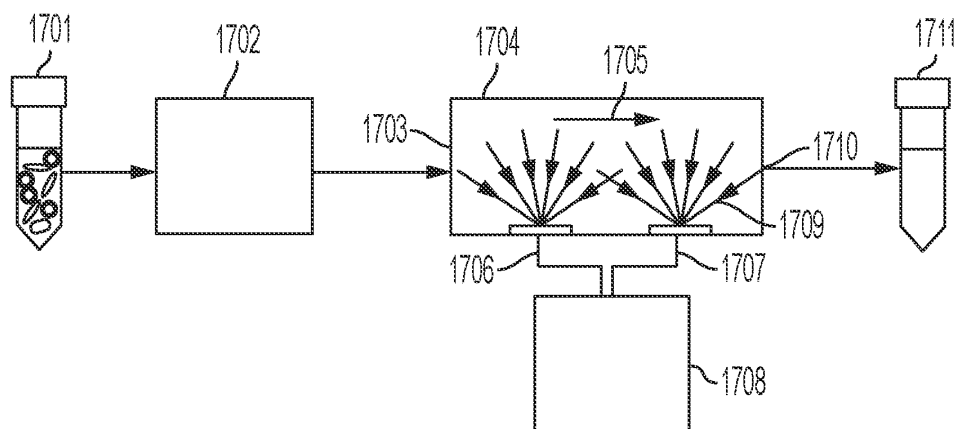


FIG. 17A

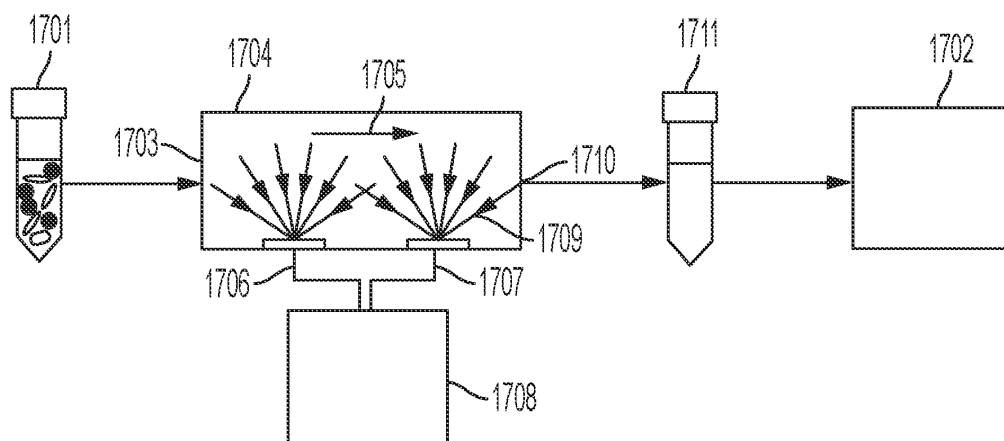


FIG. 17B



FIG. 18A

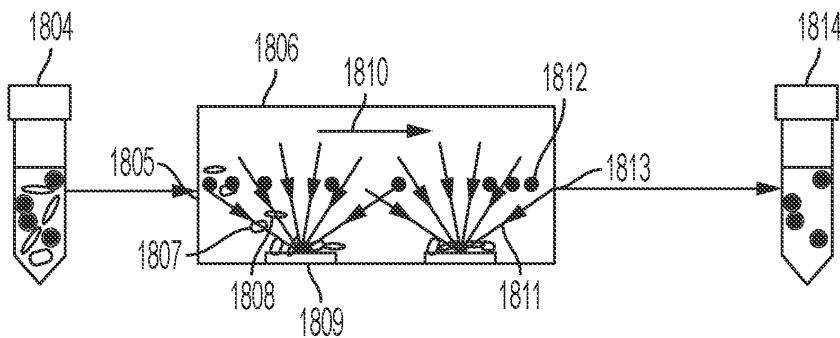


FIG. 18B

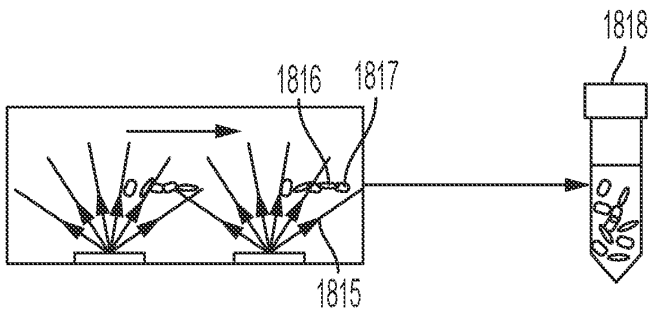


FIG. 18C

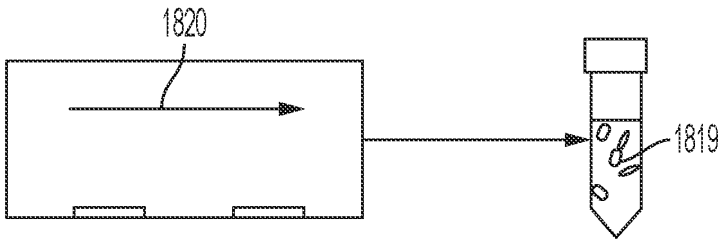


FIG. 18D



FIG. 19A

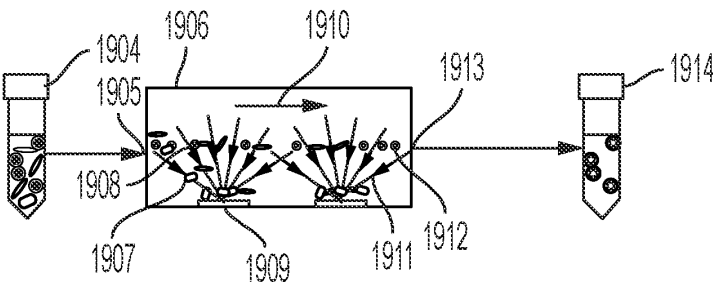


FIG. 19B

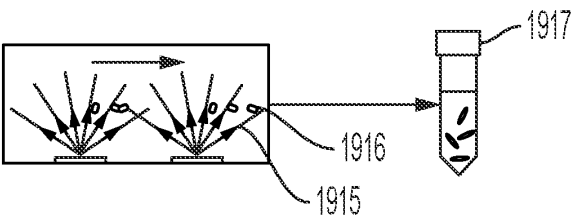


FIG. 19C

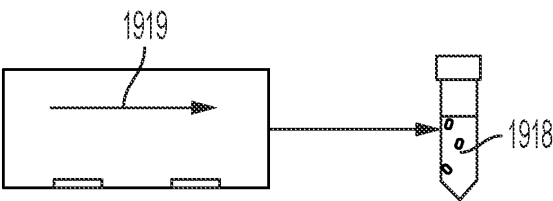


FIG. 19D

- 2001
- 2002
- 2003

FIG. 20A

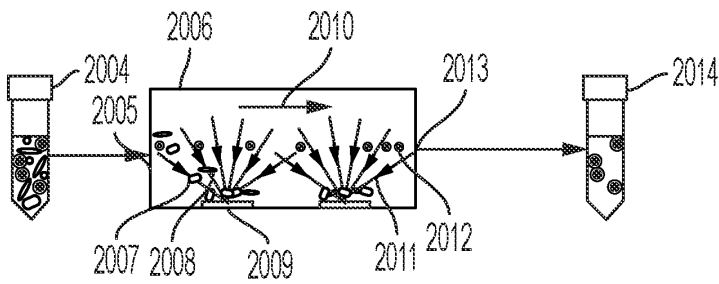


FIG. 20B

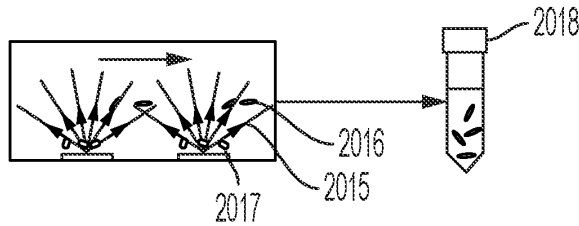


FIG. 20C

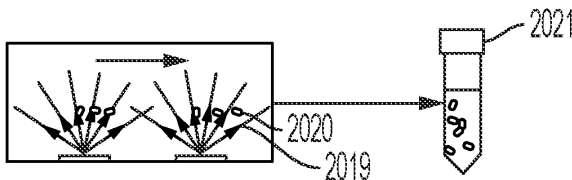


FIG. 20D

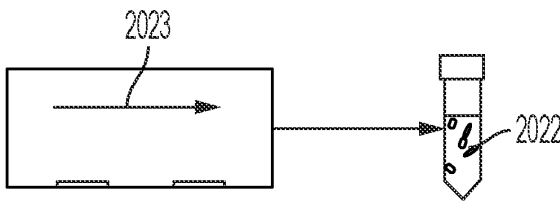


FIG. 20E

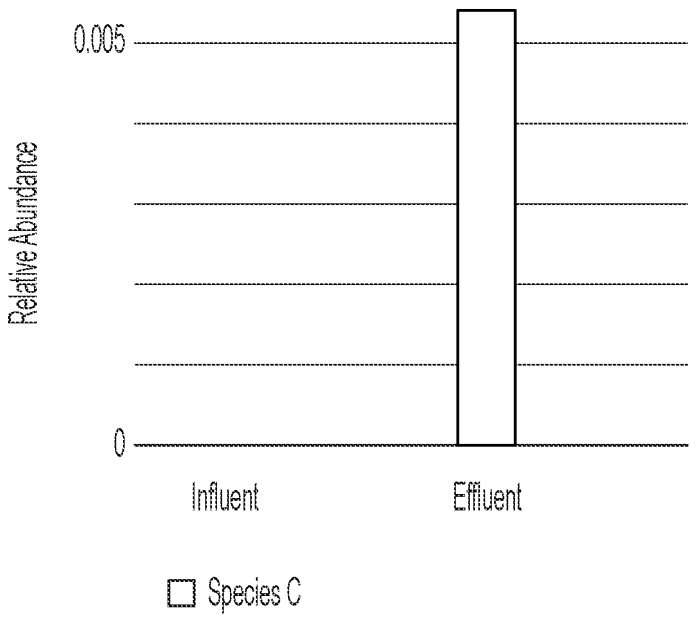


FIG. 21A

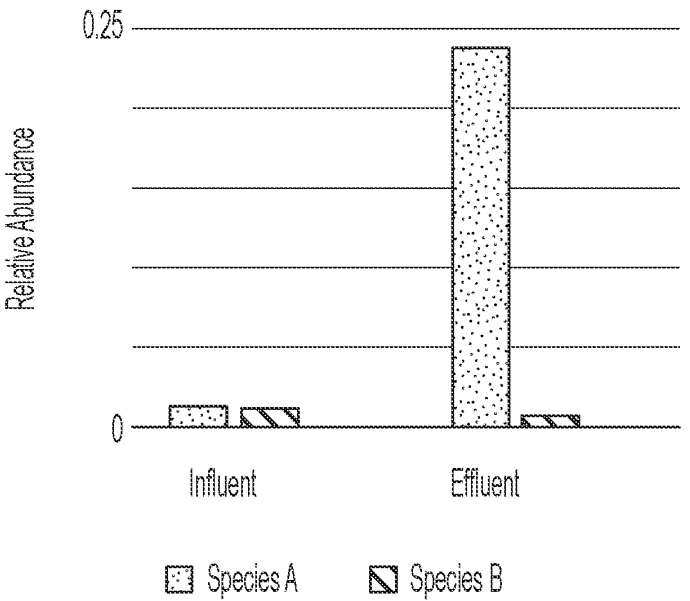


FIG. 21B

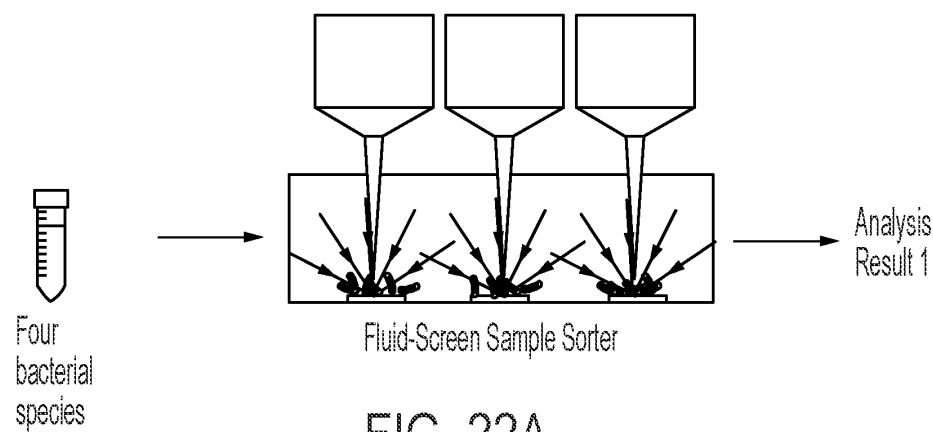


FIG. 22A

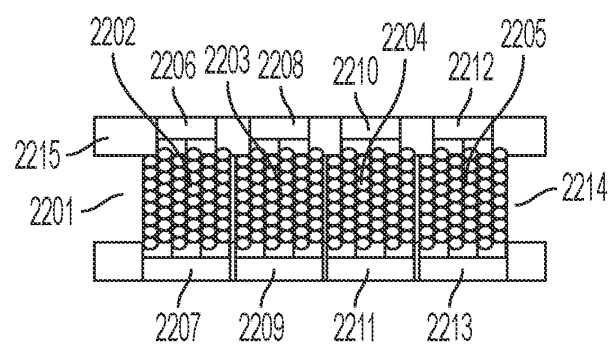


FIG. 22B

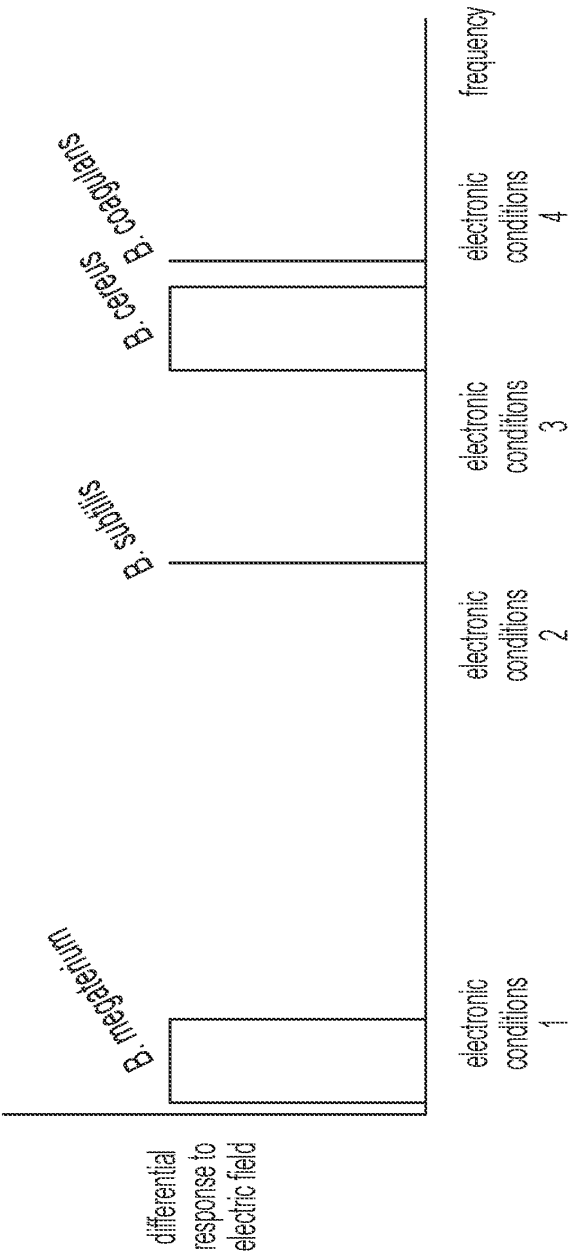


FIG. 22C



FIG. 23A

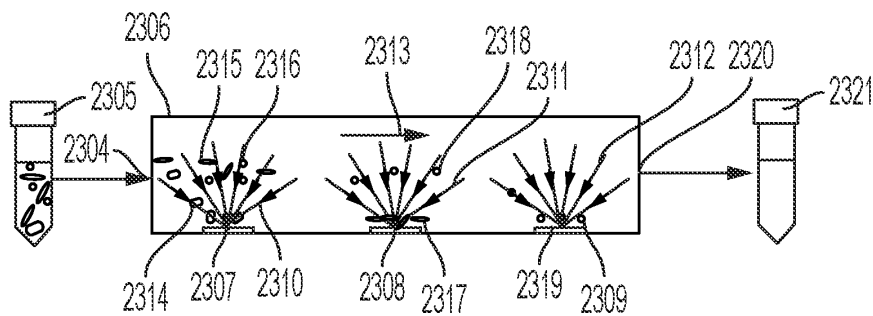


FIG. 23B

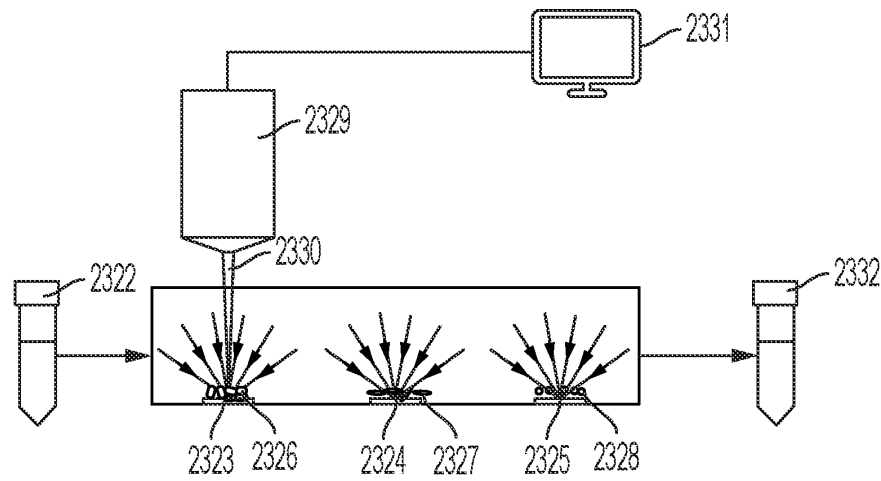


FIG. 23C

- 2401
- 2402
- 2403
- 2404

FIG. 24A

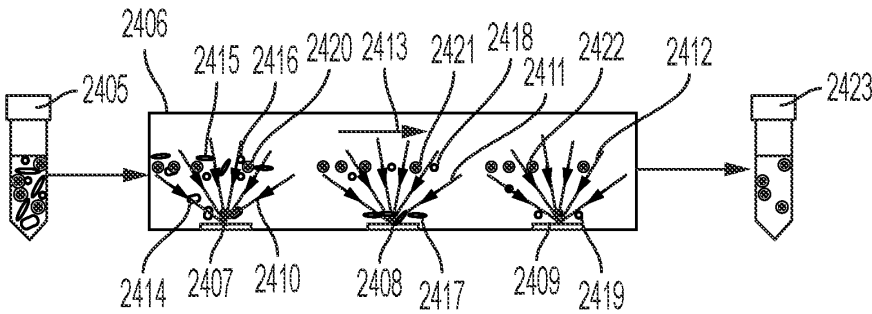


FIG. 24B

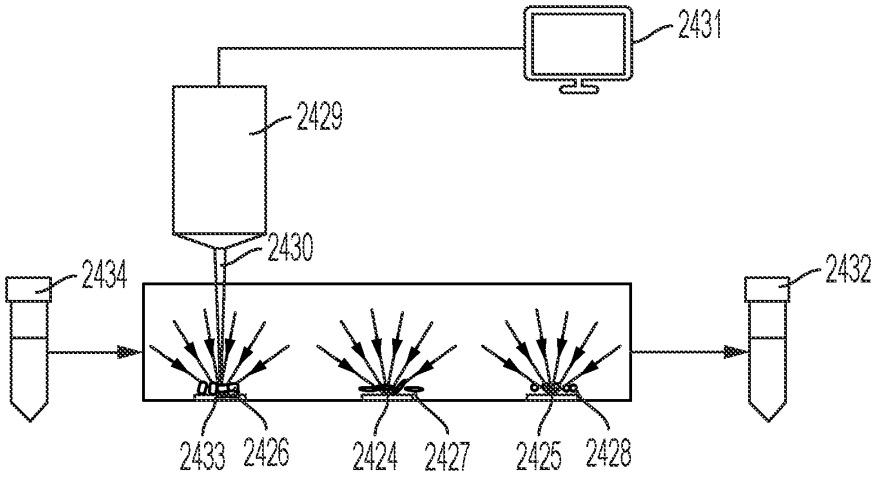


FIG. 24C



FIG. 25A

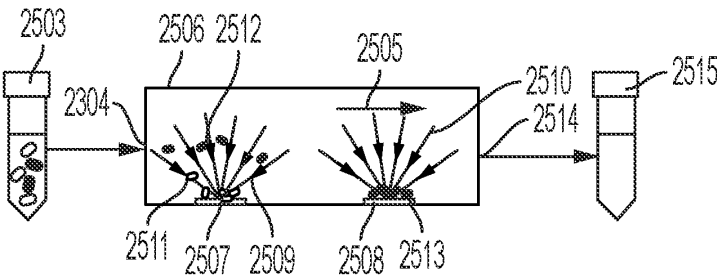


FIG. 25B

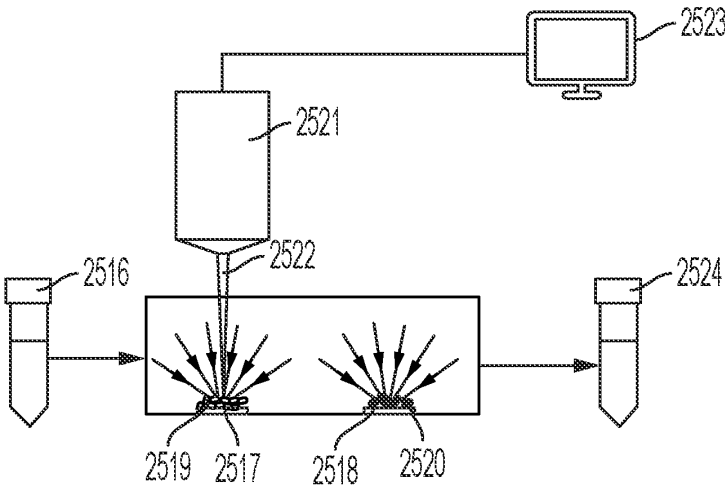


FIG. 25C



FIG. 26A

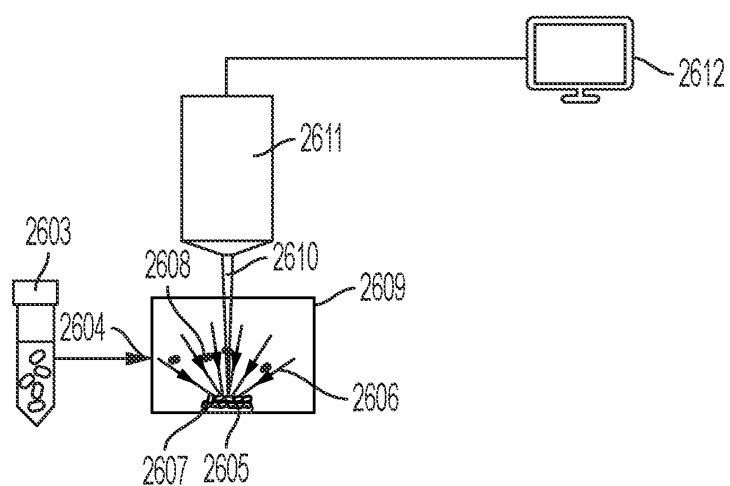


FIG. 26B

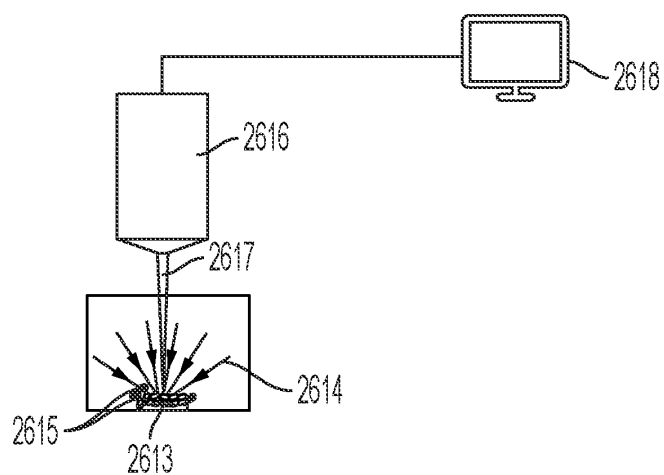


FIG. 26C

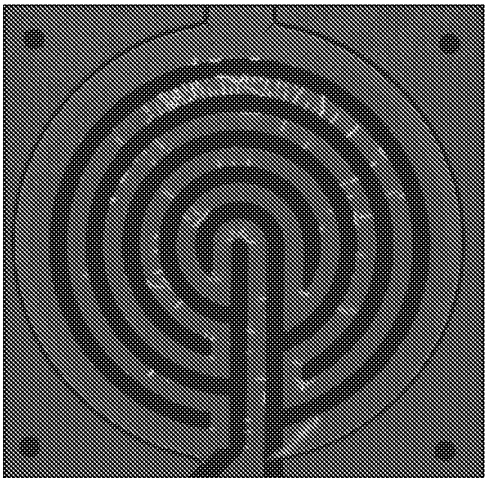


FIG. 27C

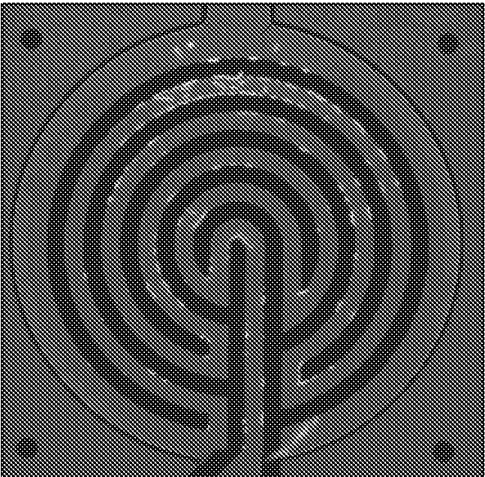


FIG. 27B

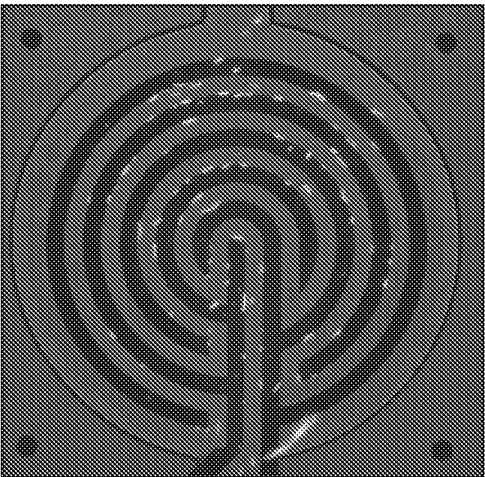


FIG. 27A

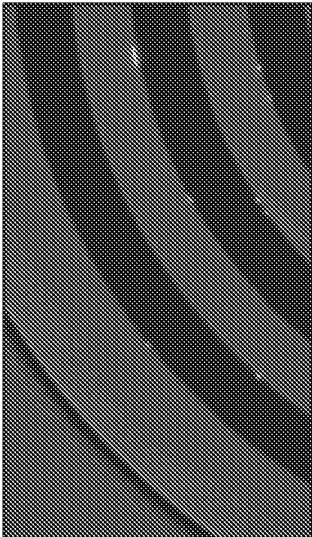


FIG. 27E

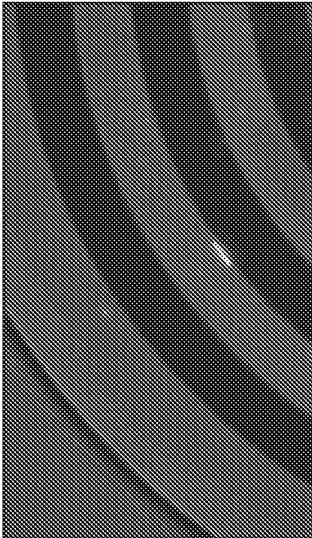


FIG. 27D

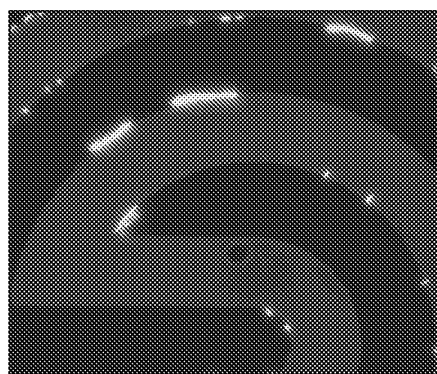
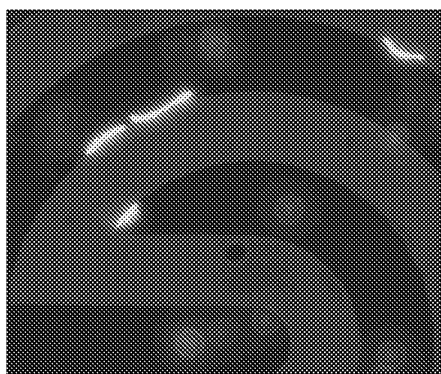
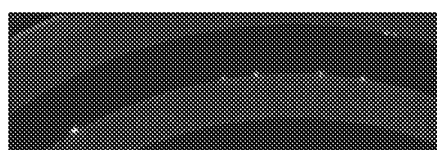
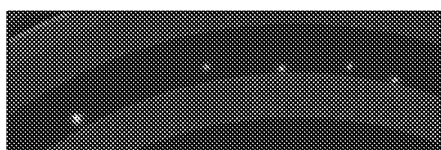


FIG. 28A

FIG. 28B

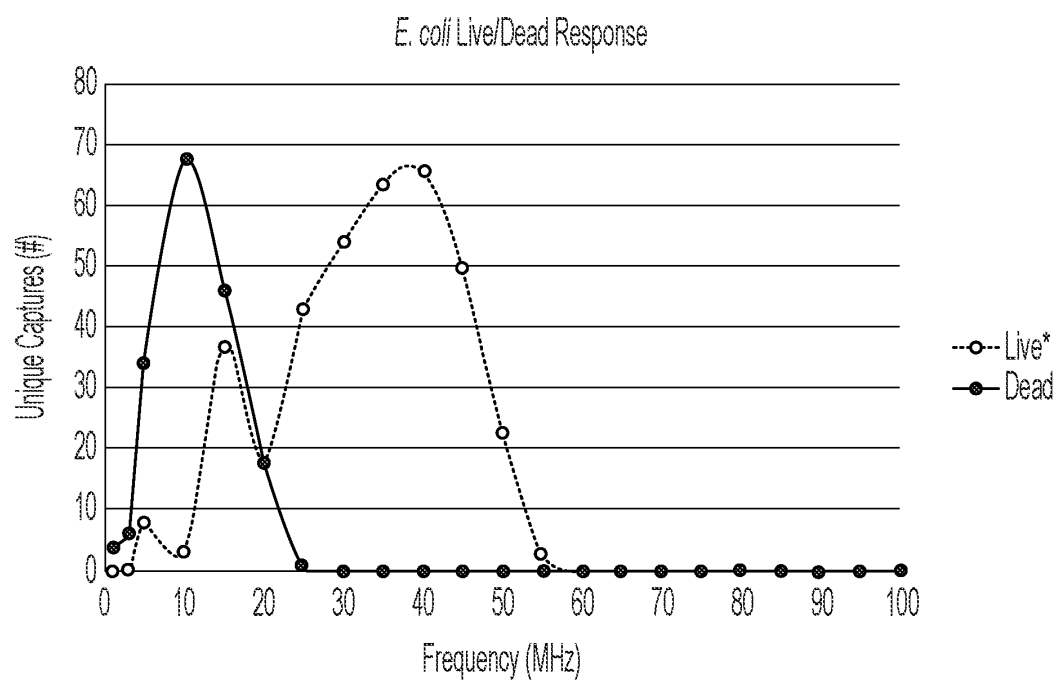


FIG. 29A

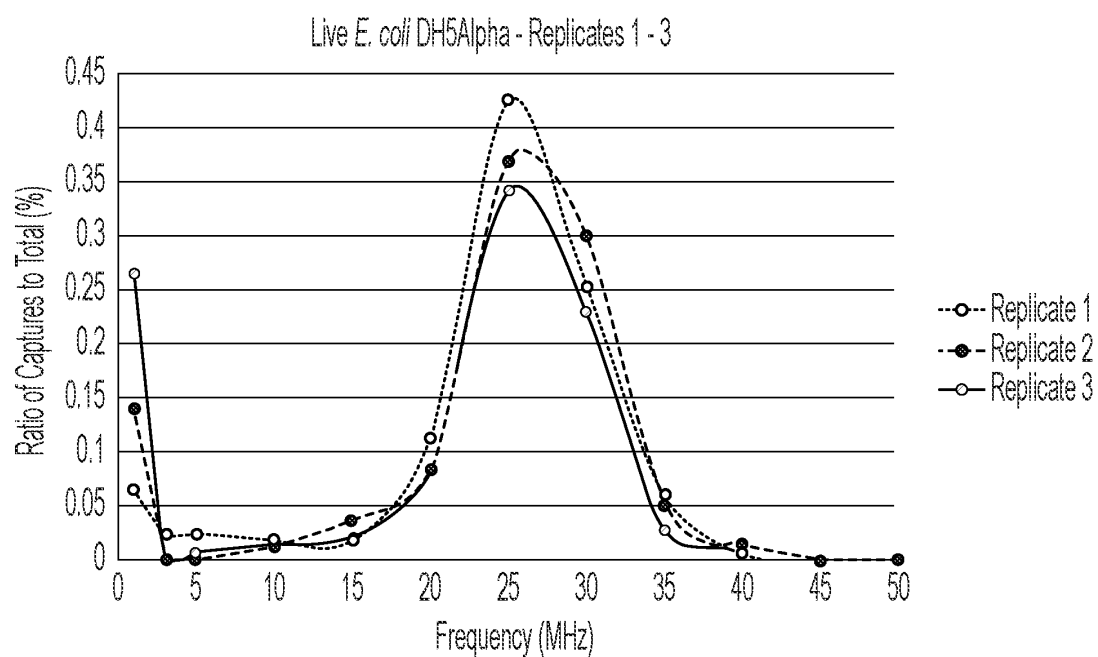


FIG. 29B

Number of bacteria captured on the Fluid- Screen Sample Sorter	Number of bacteria released from the Fluid- Screen Sample Sorter and cultured	Release & Viability (%)
1.18 E+06 CFU	8.0 E+05 CFU	68%

FIG. 30

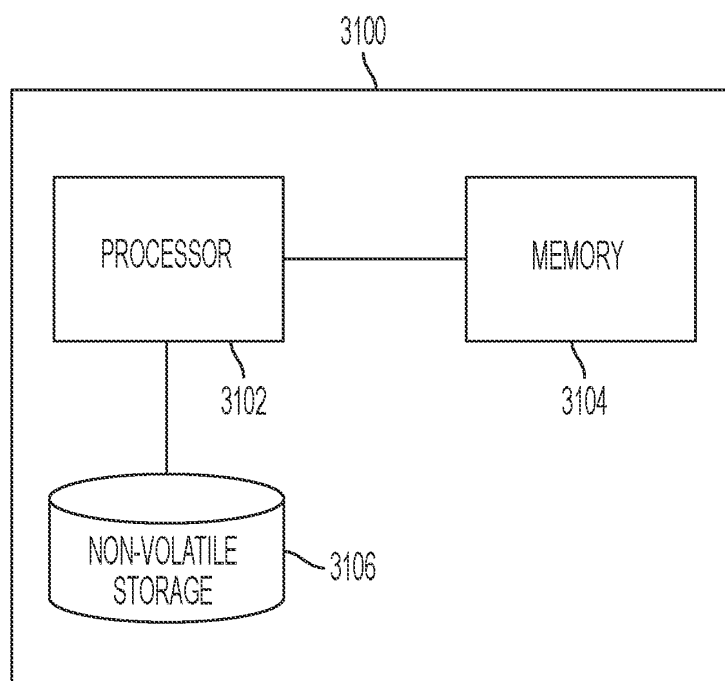
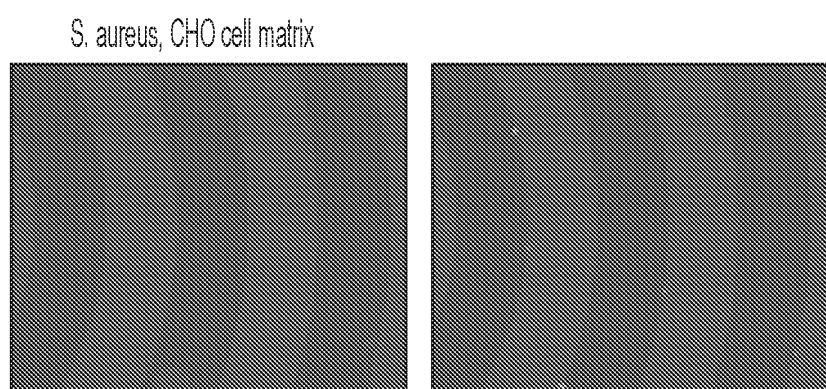
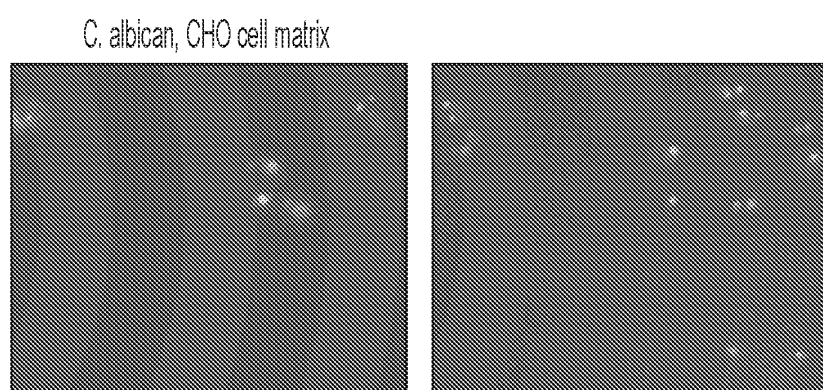
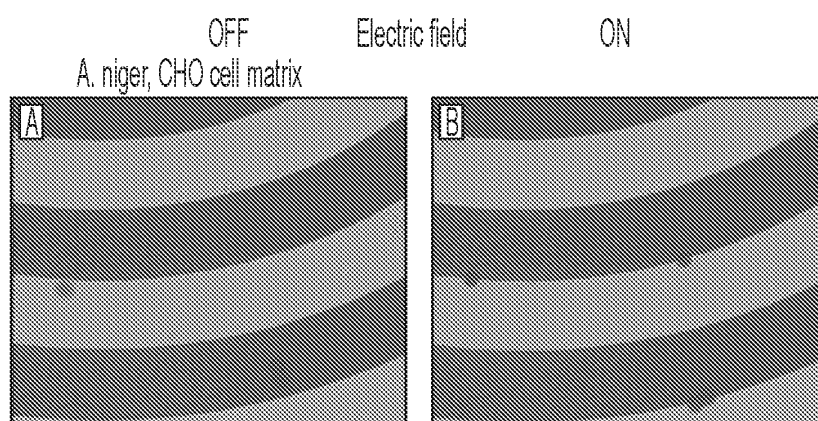


FIG. 31



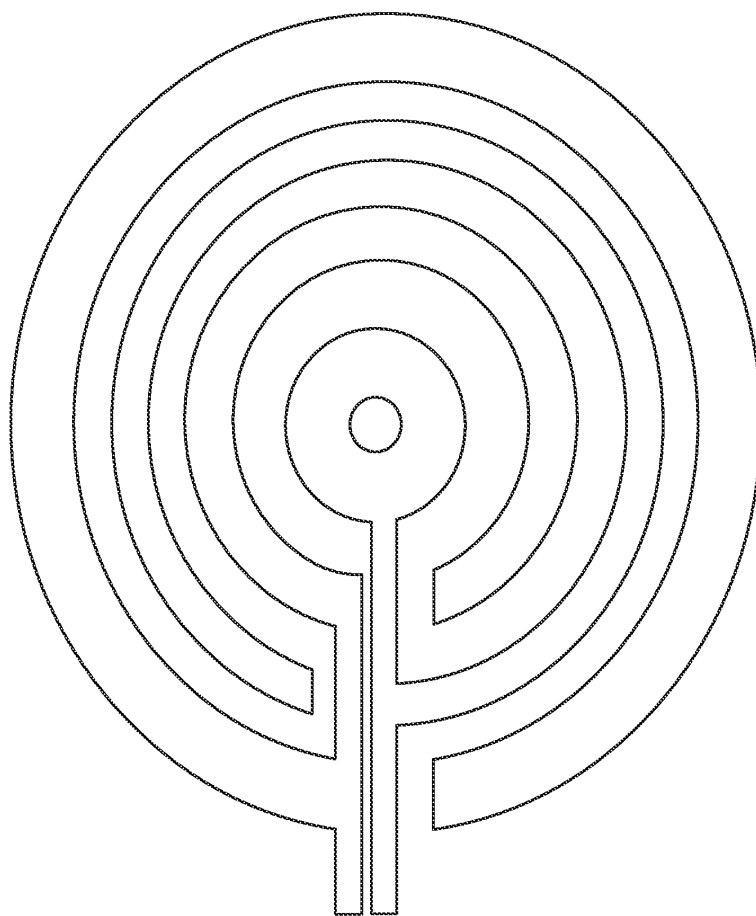


FIG. 33

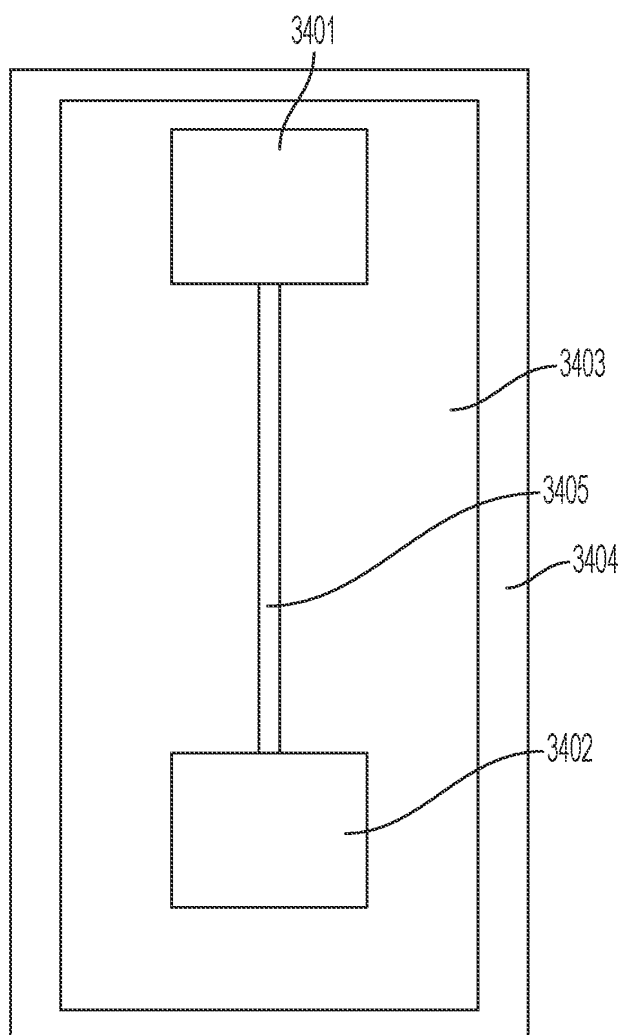


FIG. 34

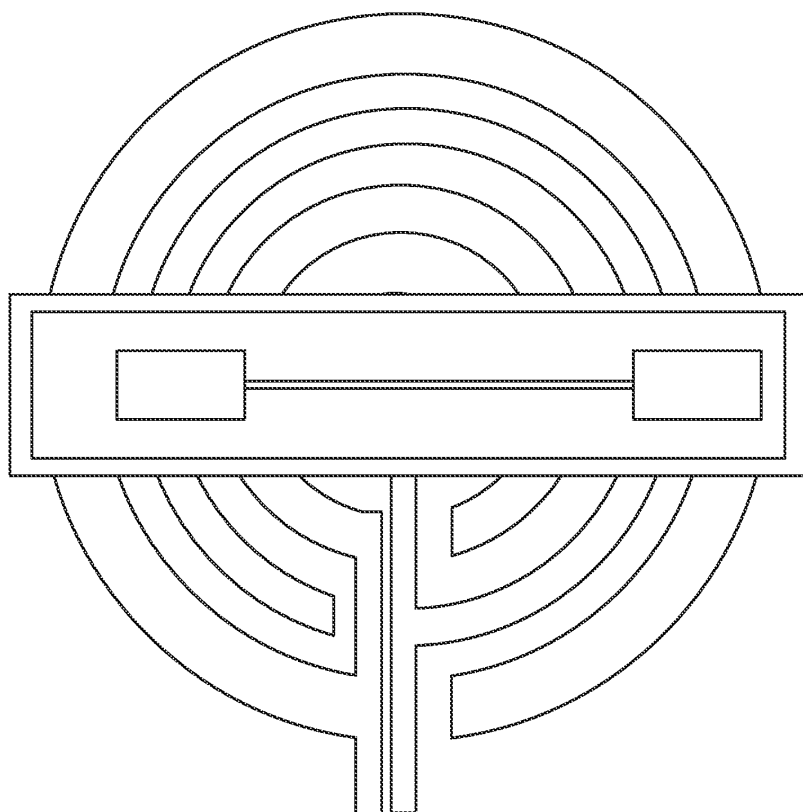


FIG. 35

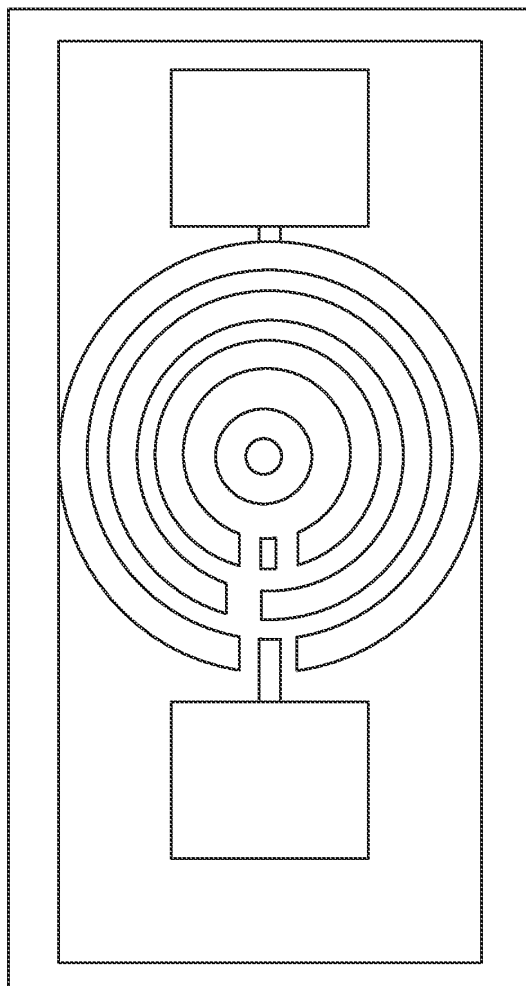


FIG. 36A

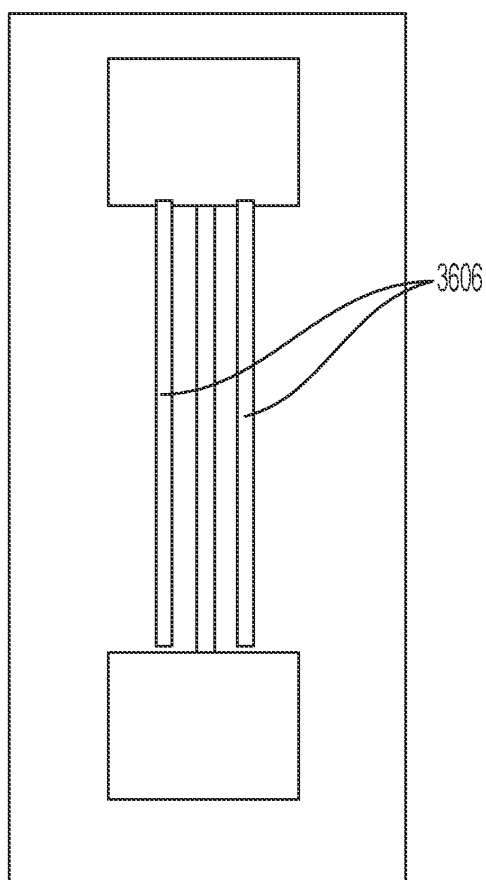


FIG. 36B

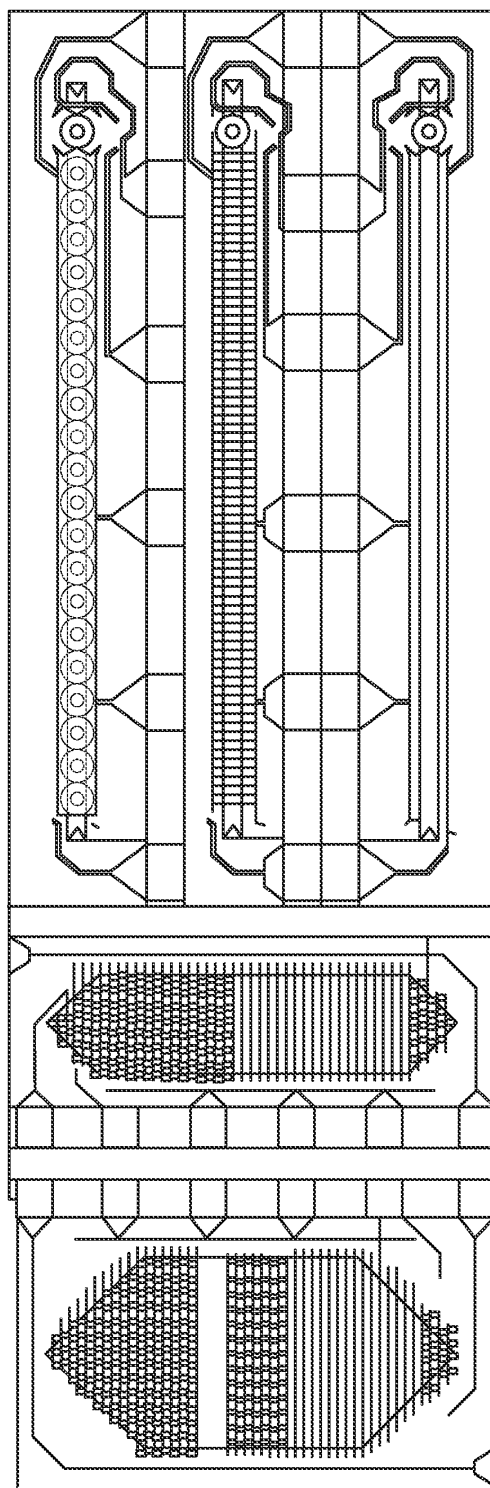


FIG. 37A

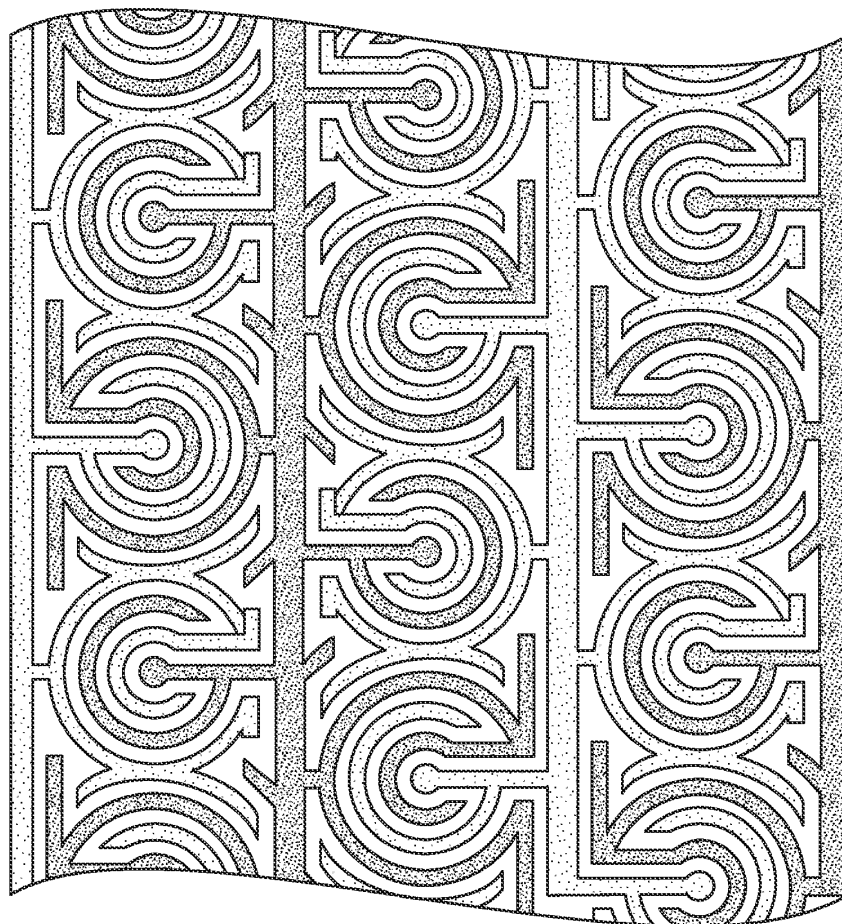


FIG. 37B

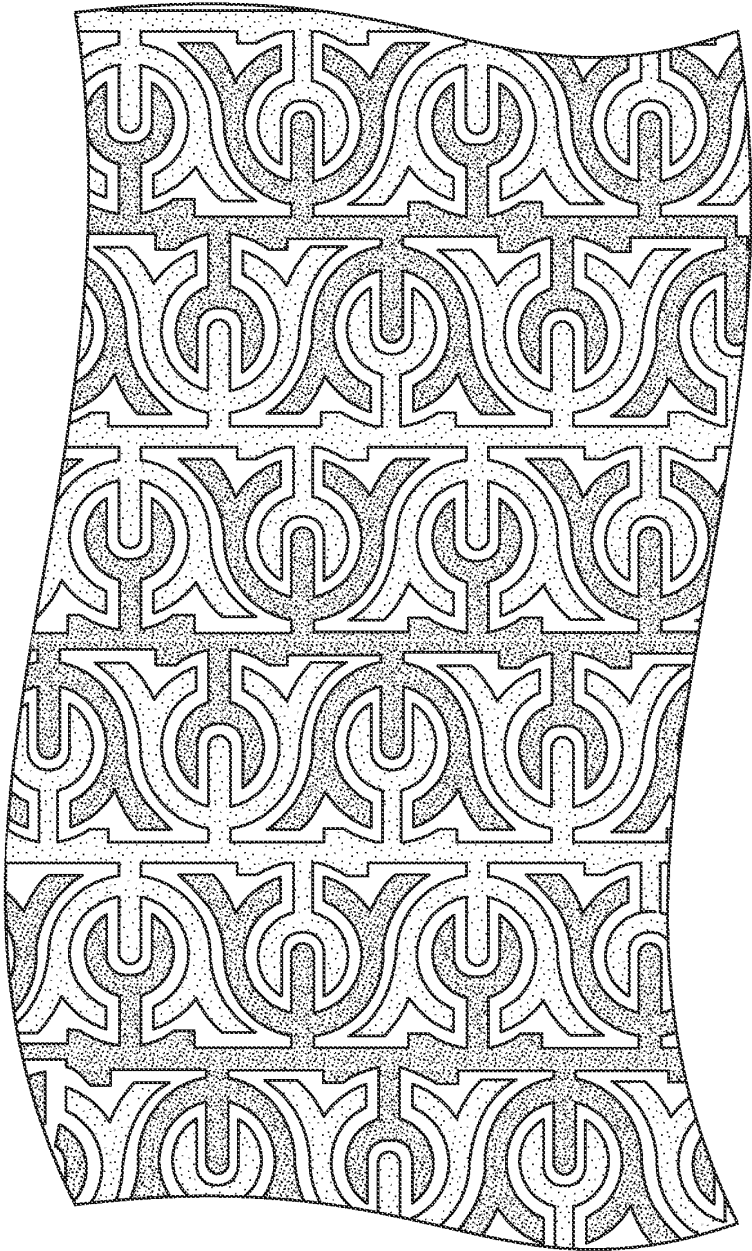


FIG. 37C

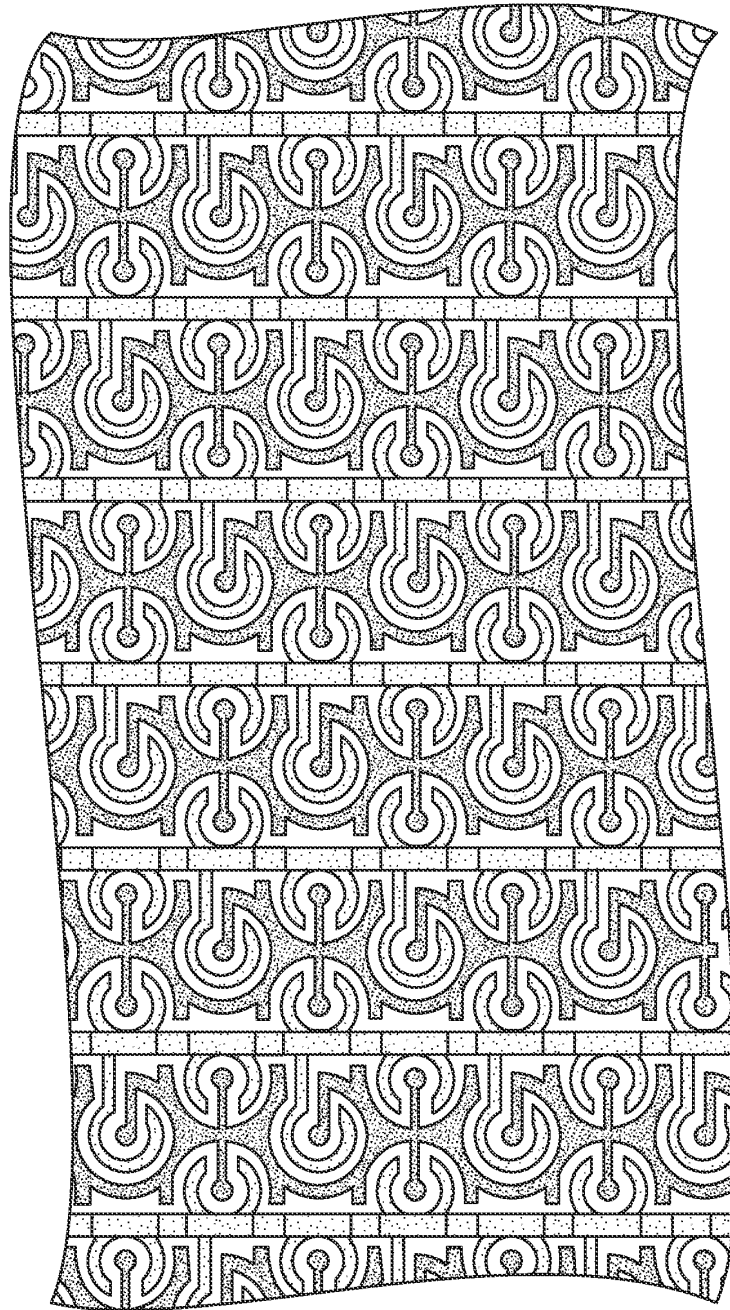


FIG. 37D

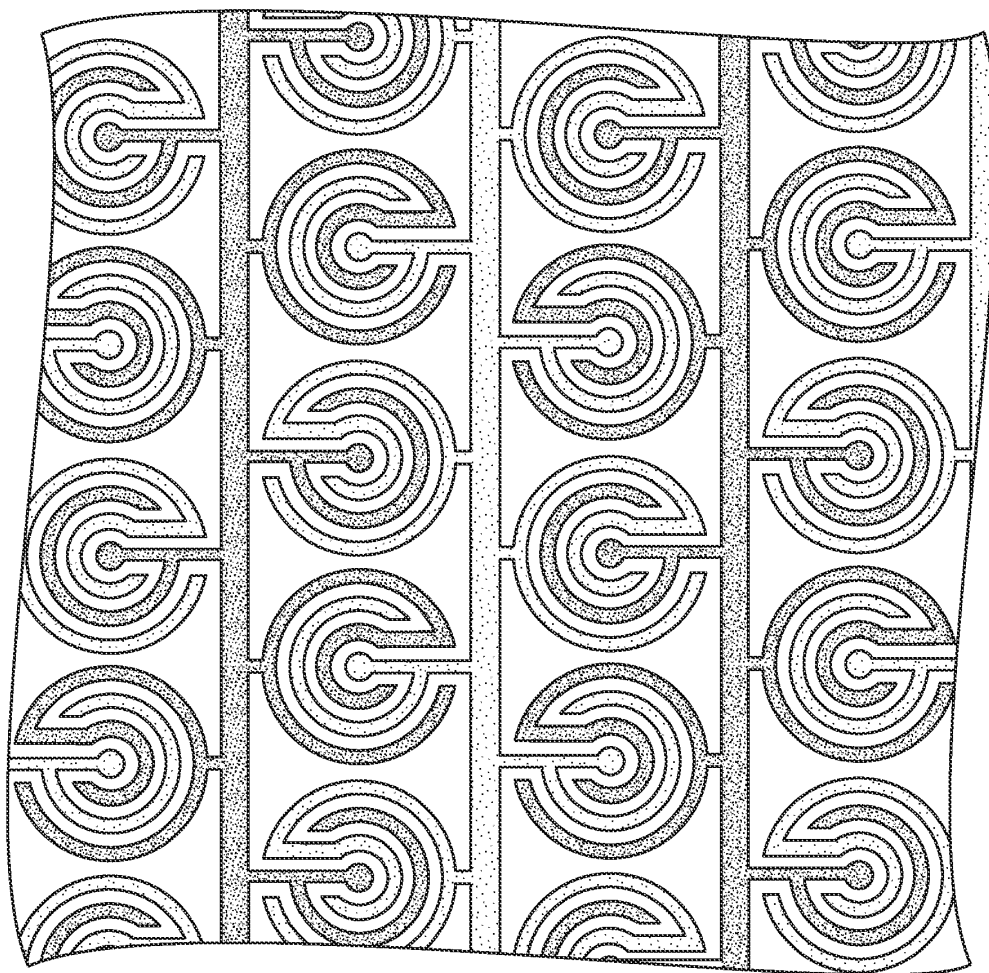


FIG. 37E

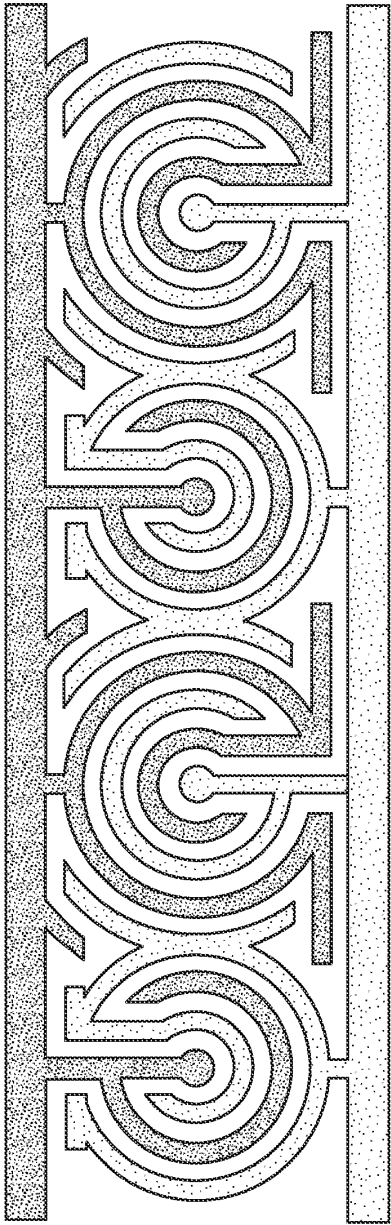


FIG. 37F

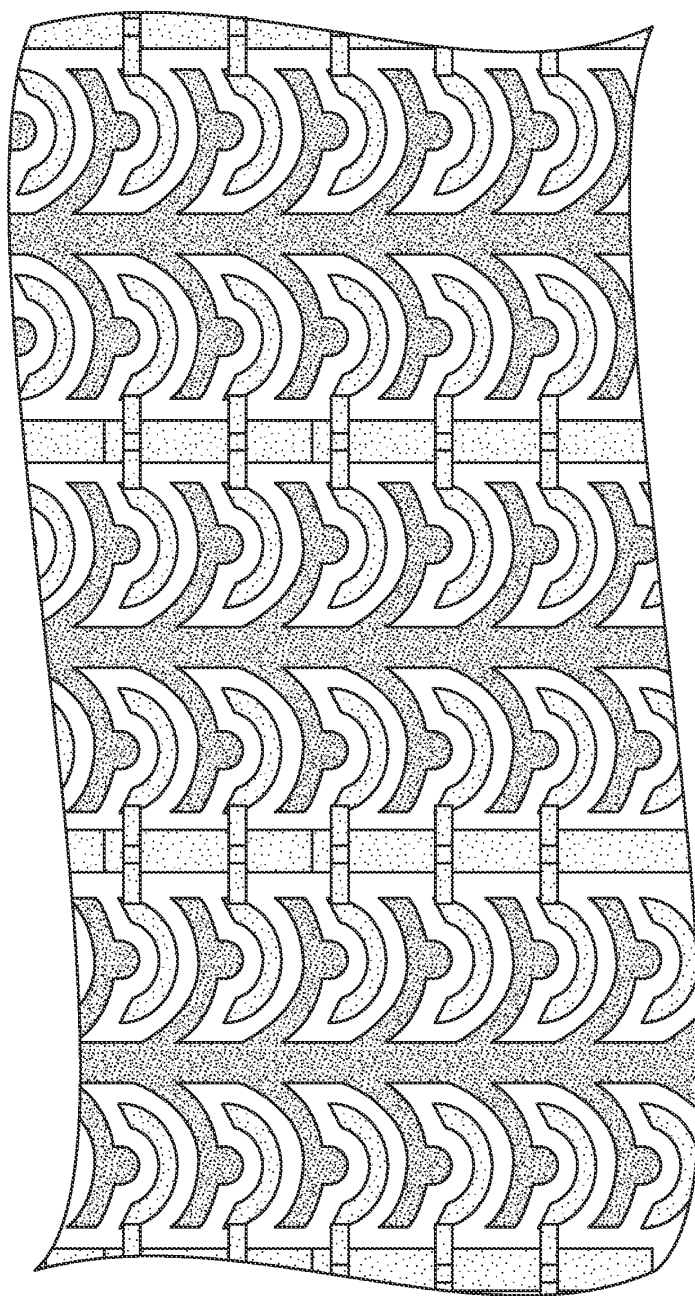


FIG. 37G

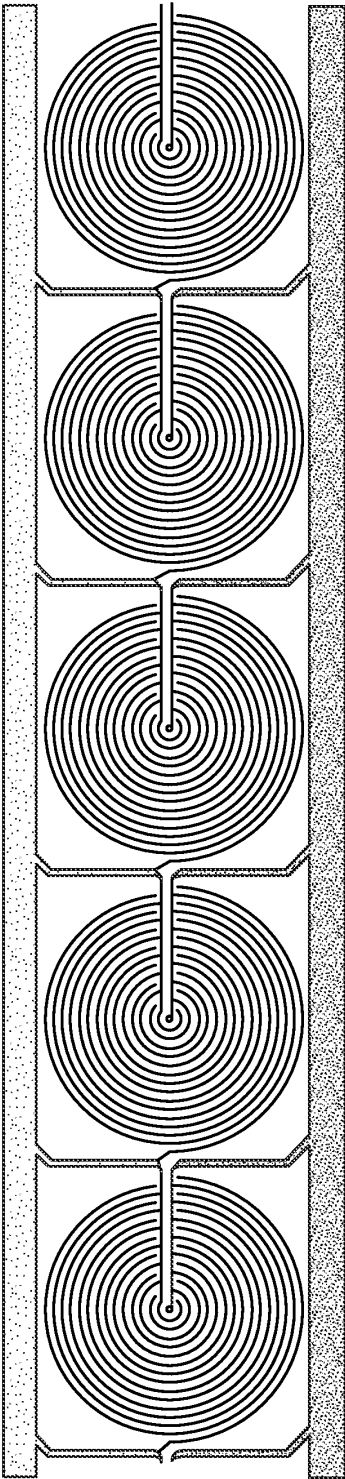


FIG. 37H