

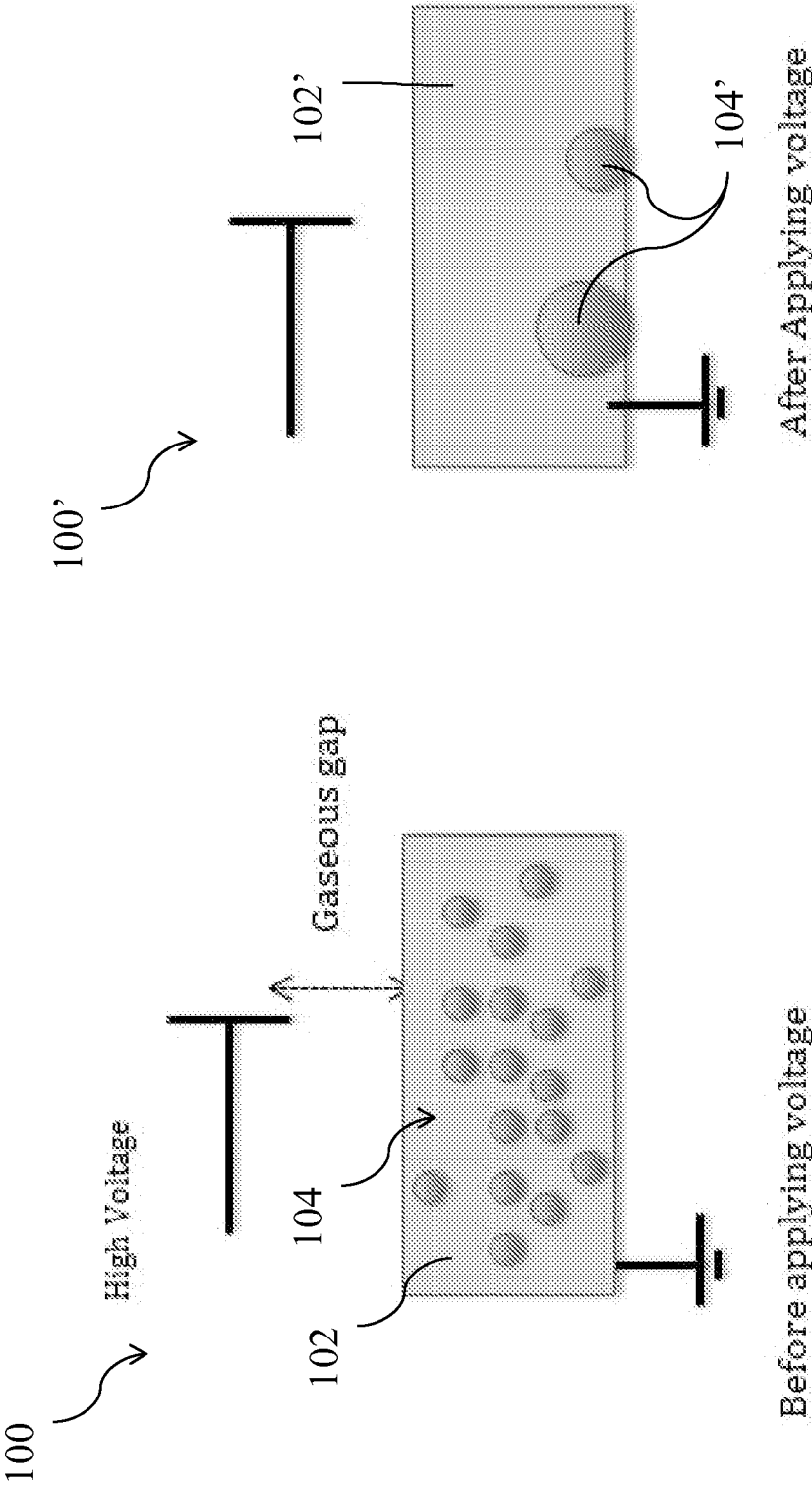


FIG. 1

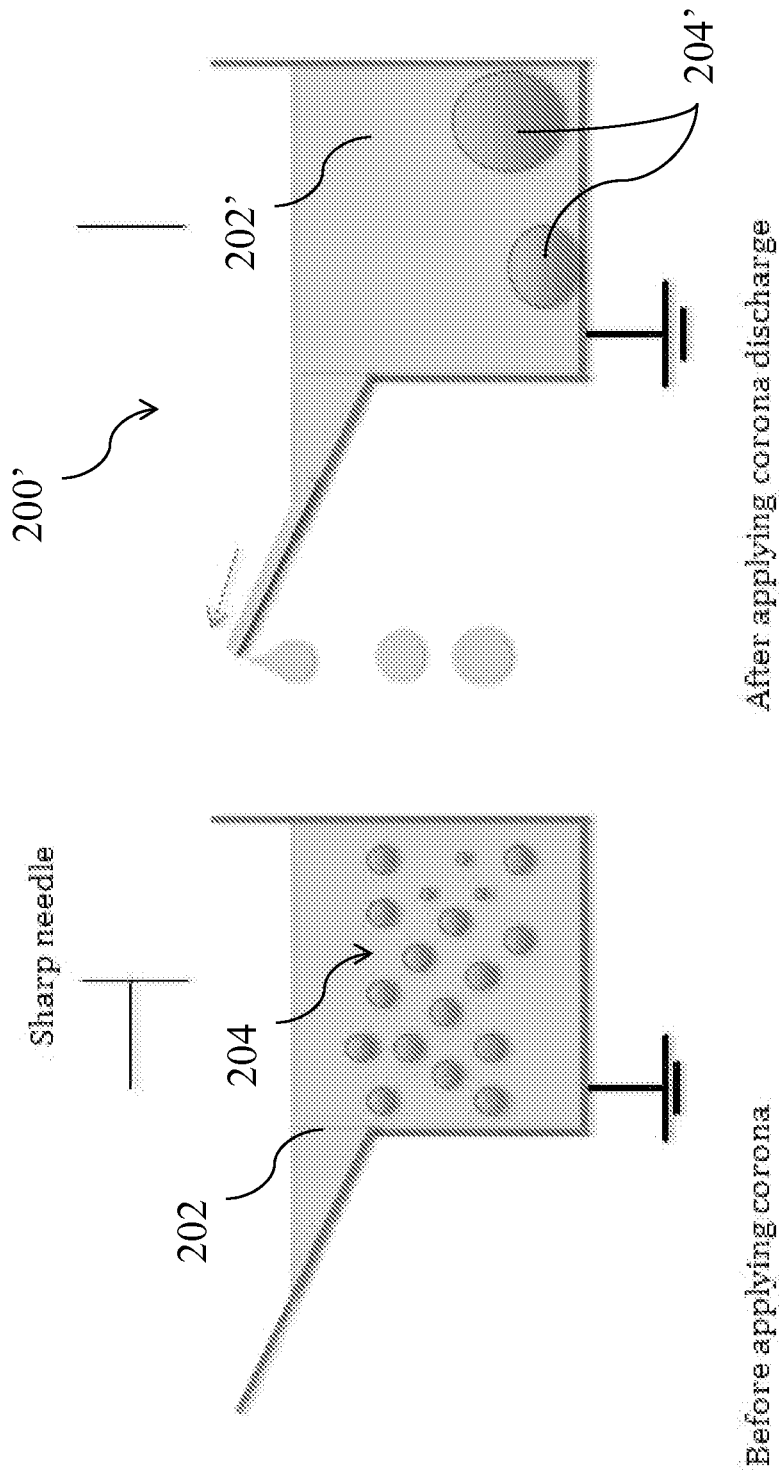


FIG. 2

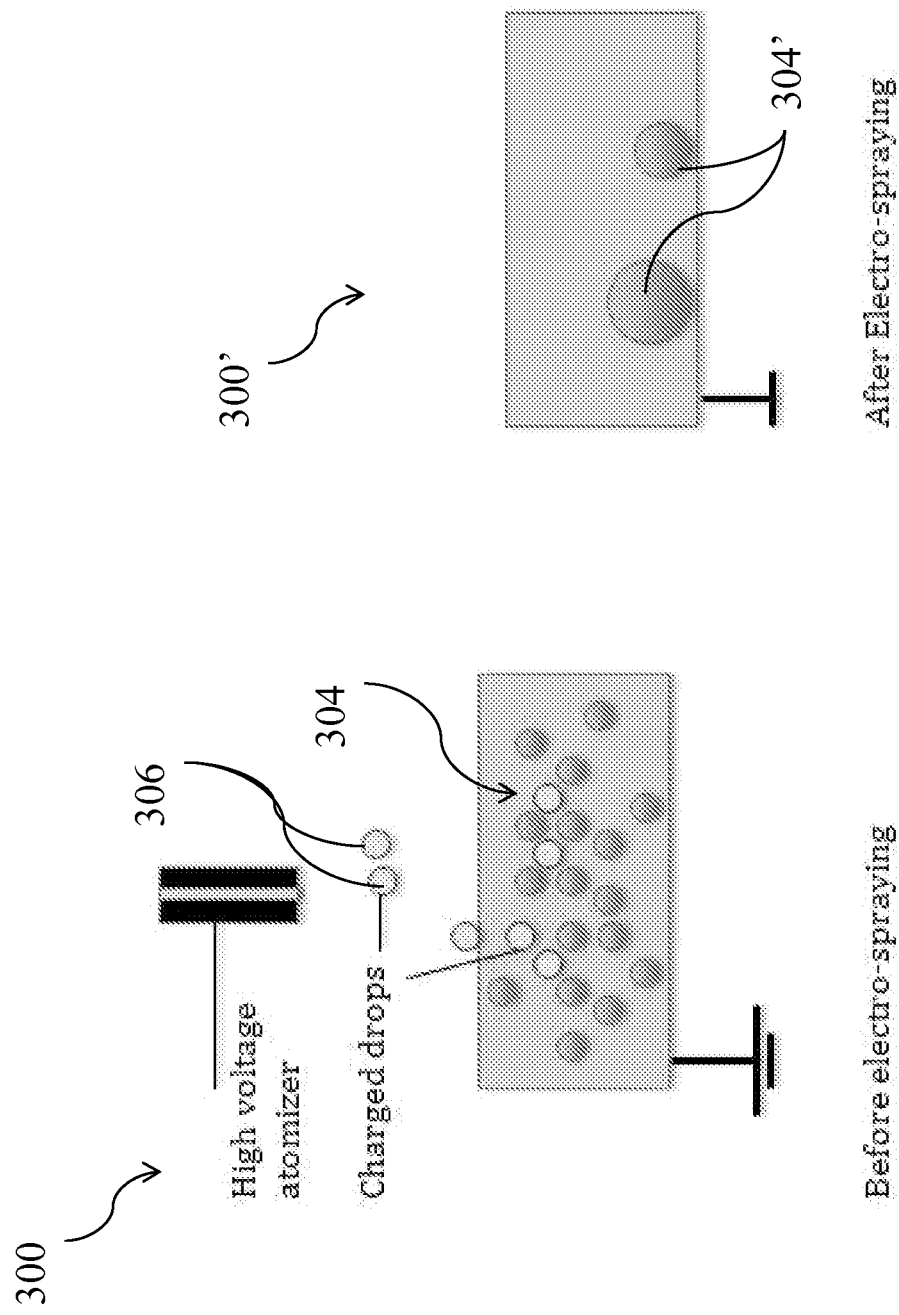


FIG. 3

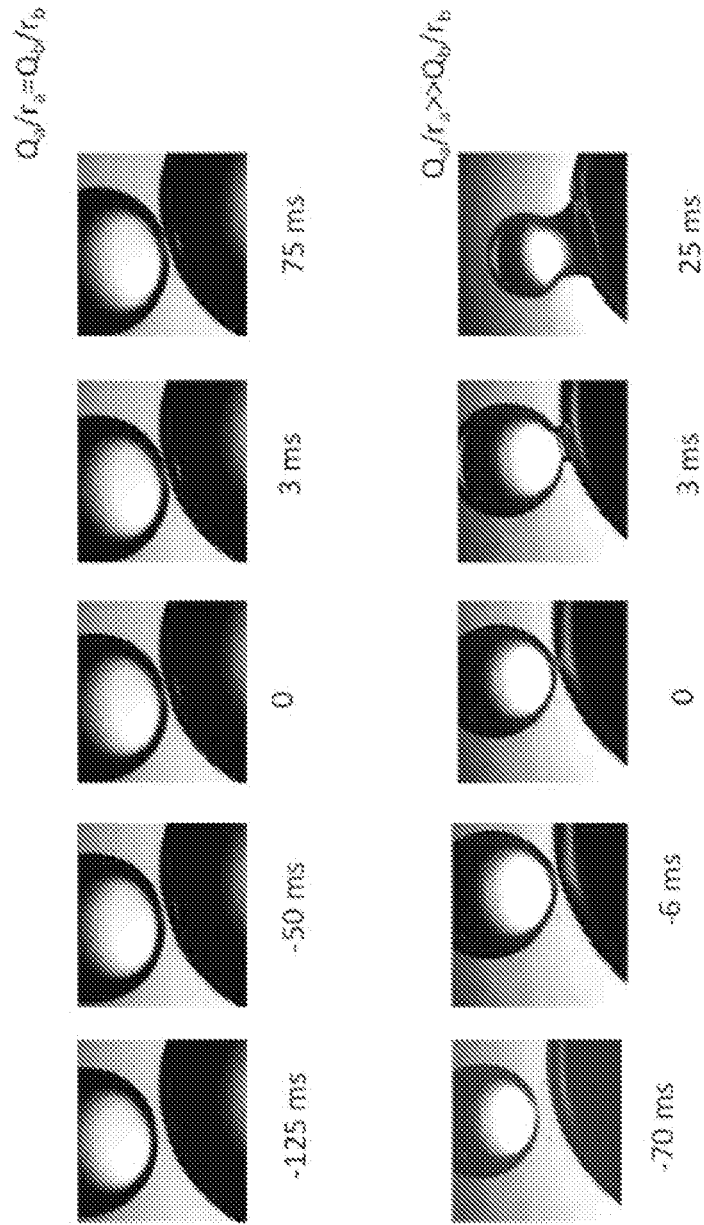


FIG. 4A

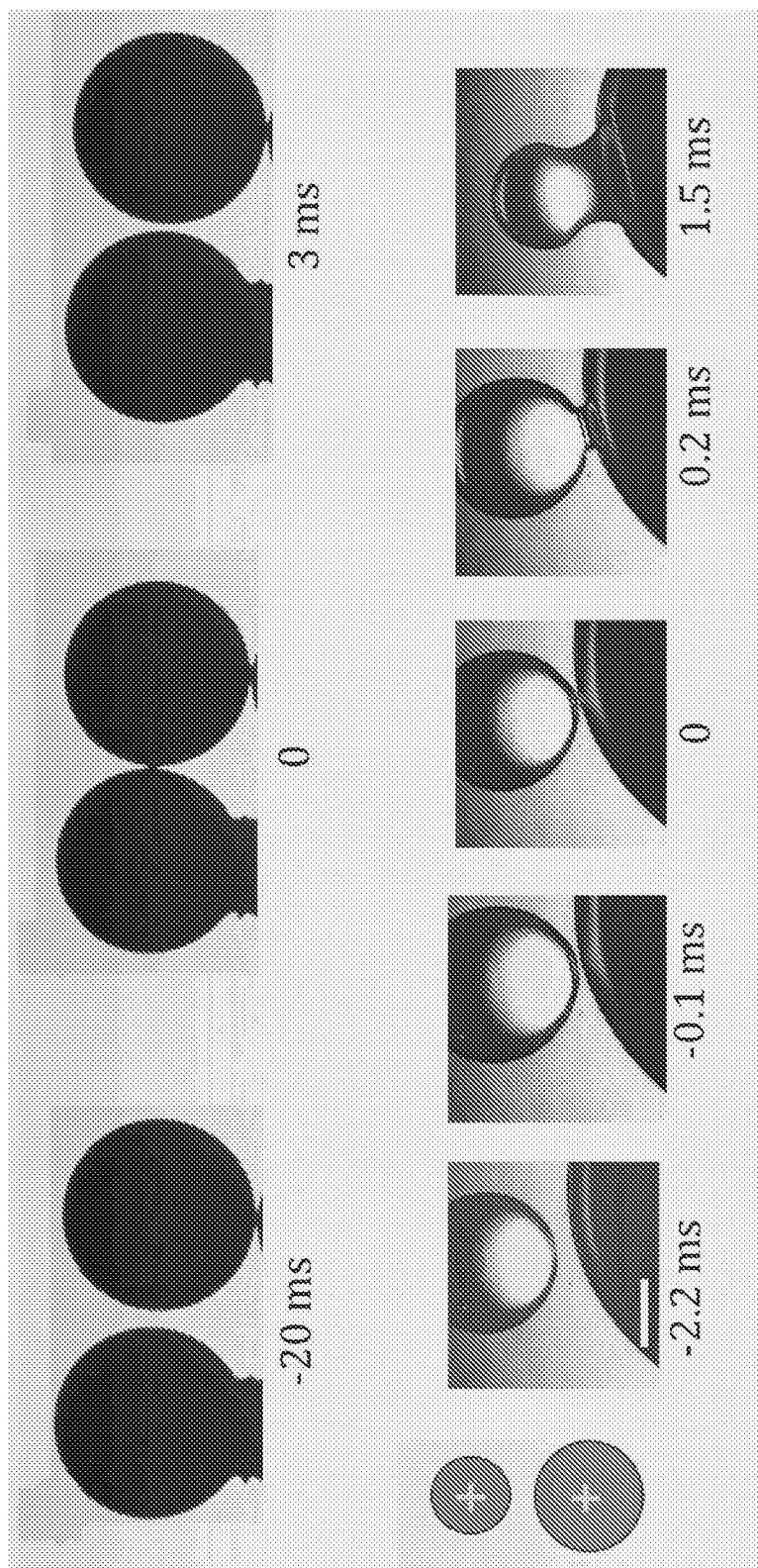


FIG. 4B

FIG. 4C

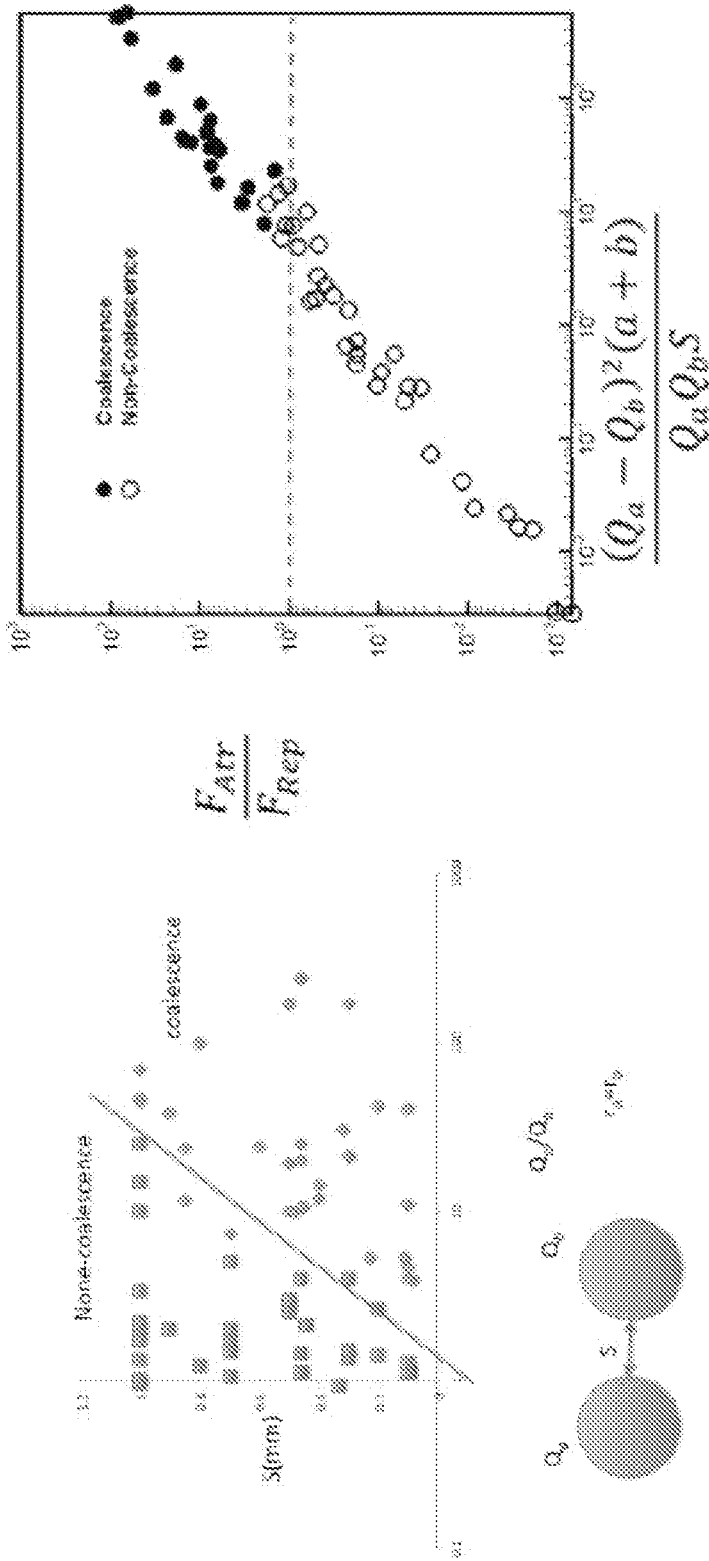


FIG. 5

FIG. 6A

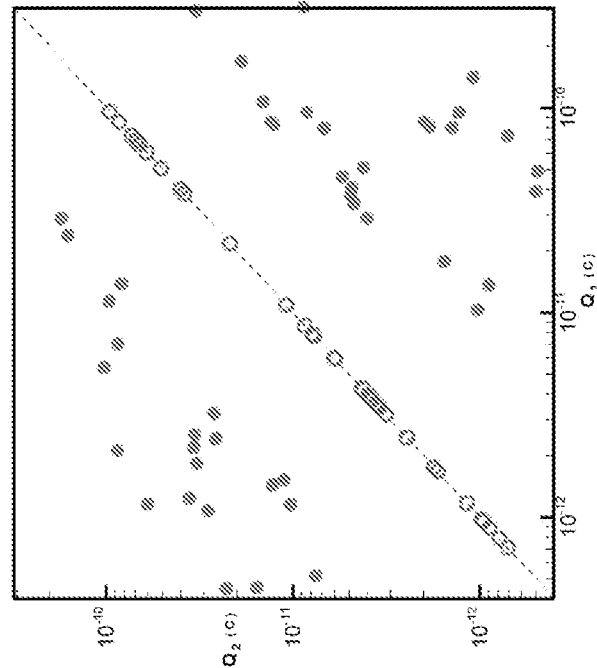


FIG. 6B

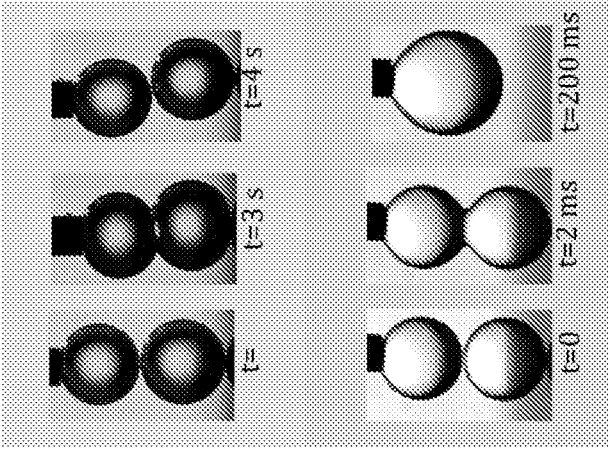


FIG. 6C

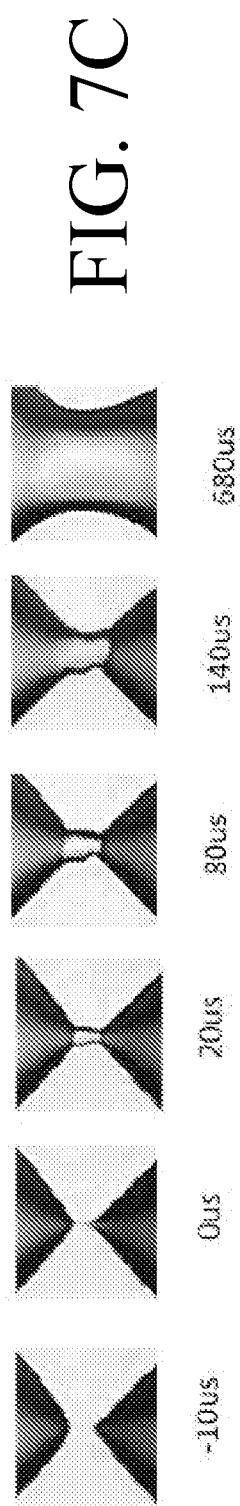
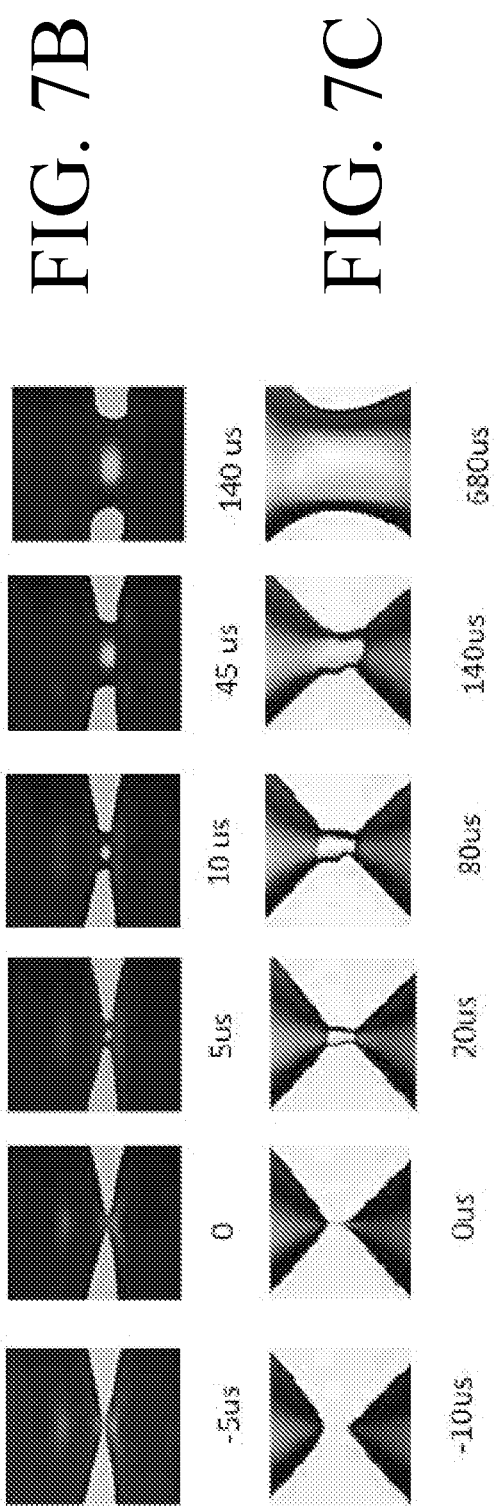
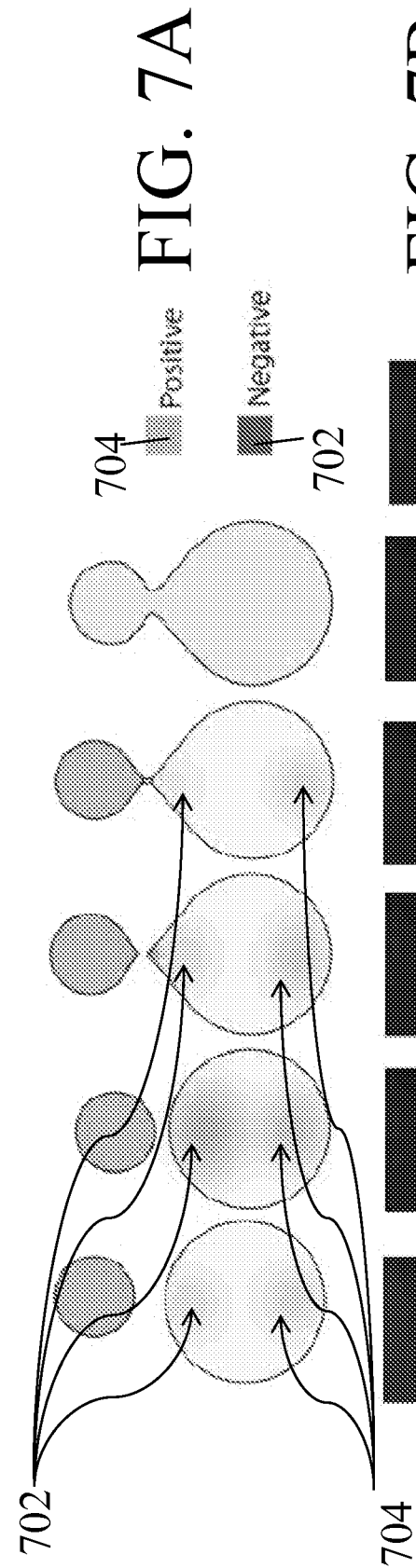


FIG. 8A

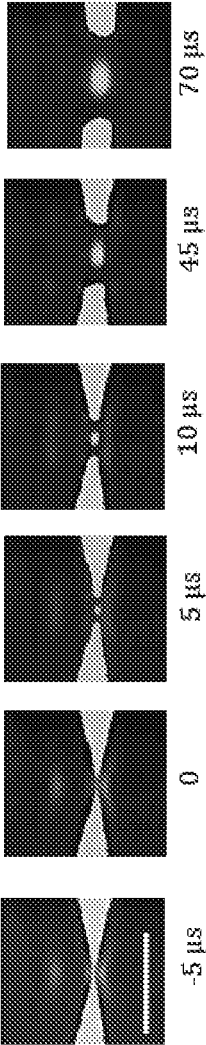


FIG. 8B

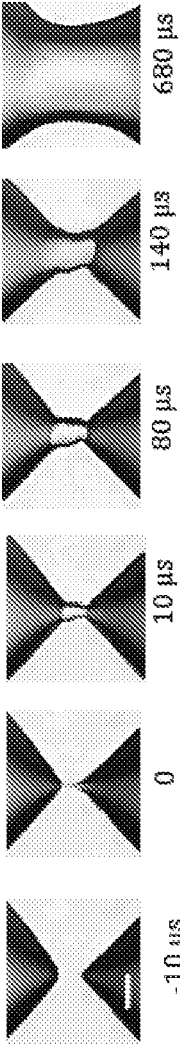


FIG. 8C

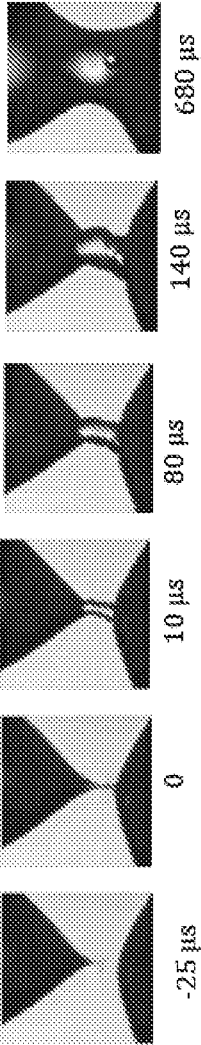
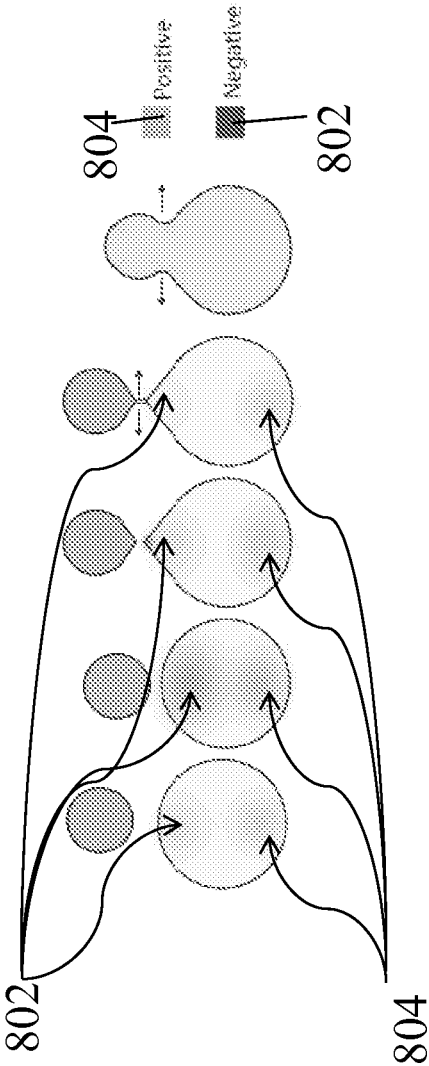


FIG. 8D



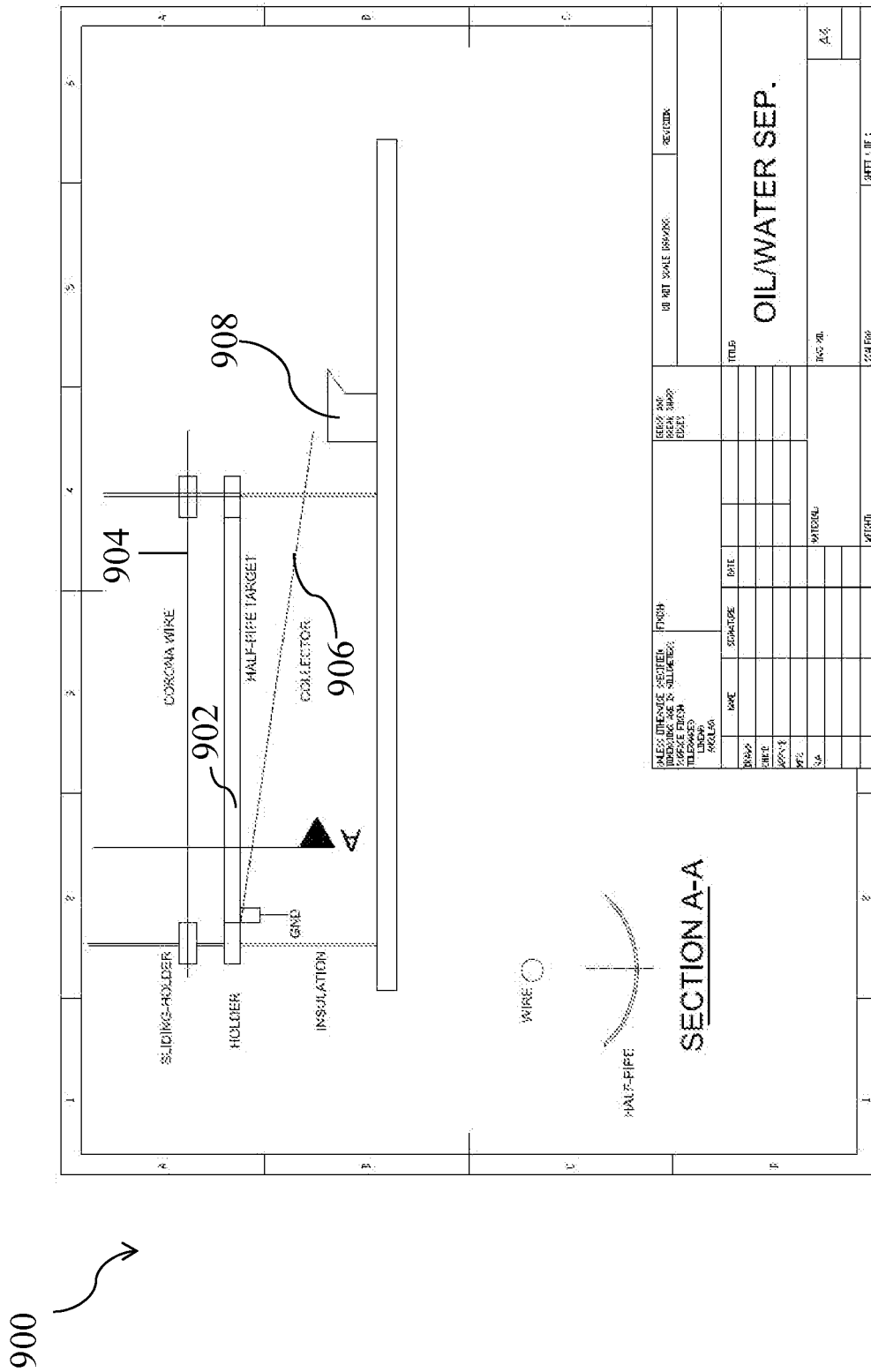


FIG. 9

1000 

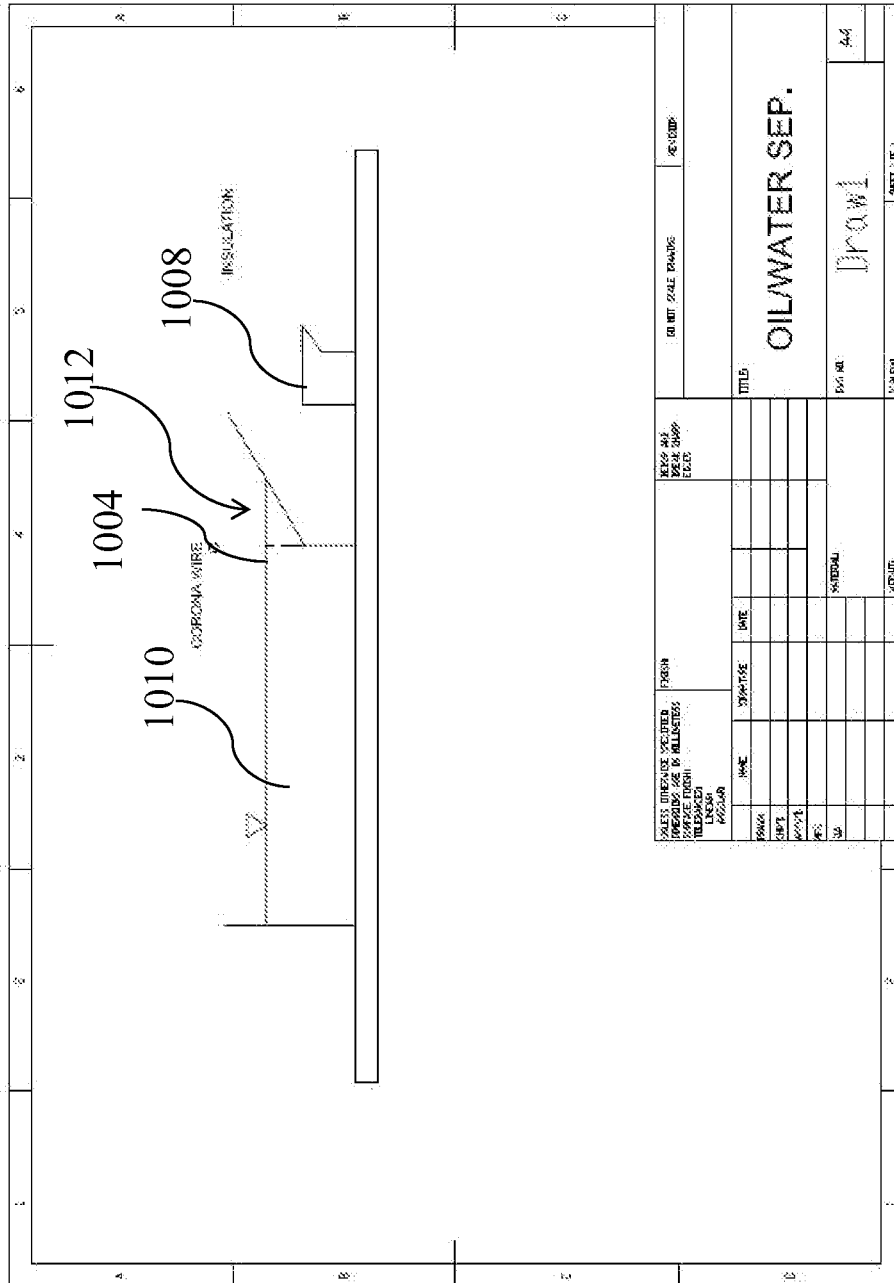


FIG. 10

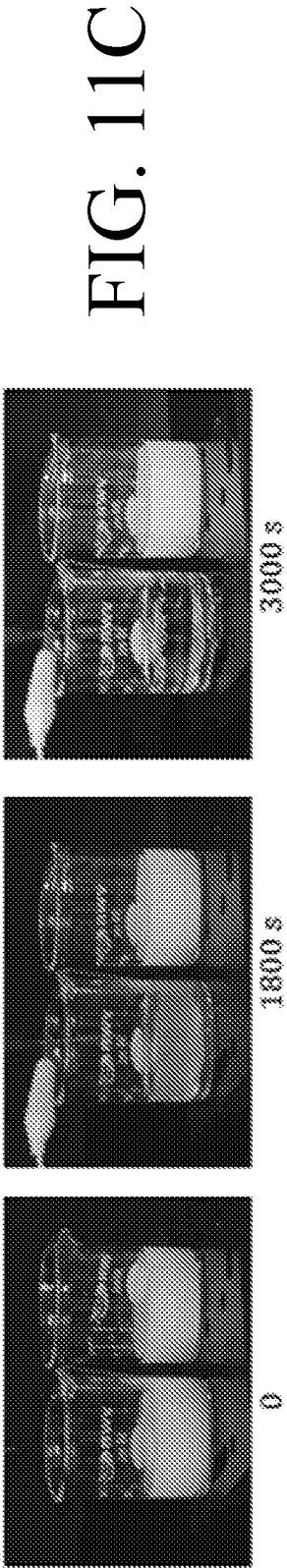
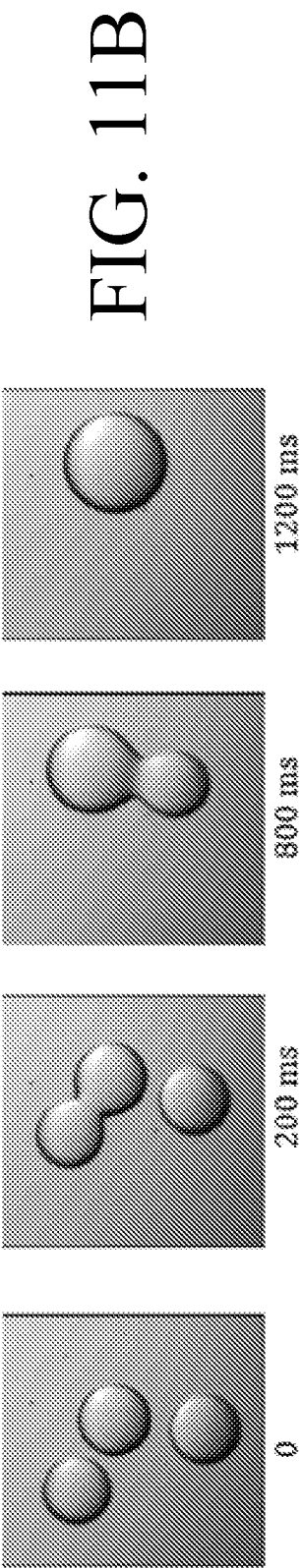
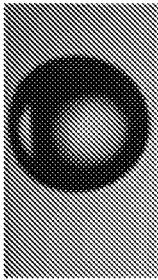
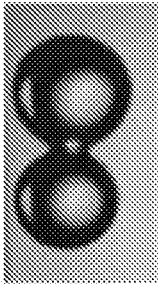


FIG. 12A

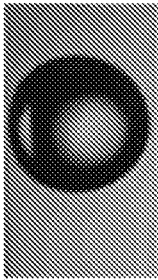
Corona discharge
For two drops in bulk oil



t=0



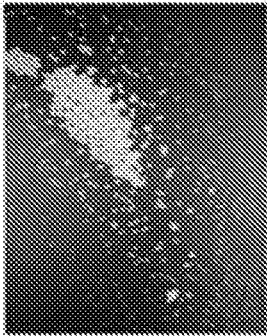
t=20 ms



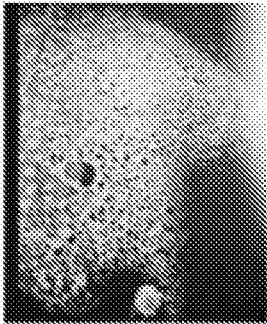
t=190 ms

FIG. 12B

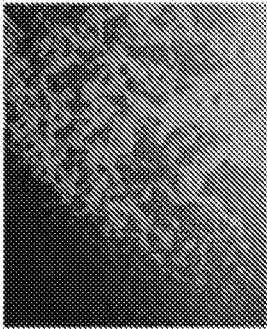
Corona discharge for
10% water in 90% oil



t=4 sec, V=7 kV, I=0.9 μ A



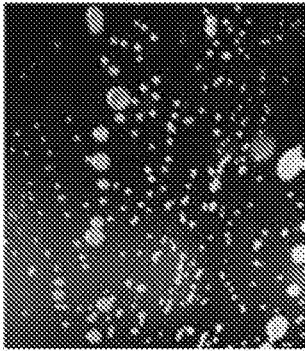
t=1 sec, V=7 kV, I=0.9 μ A



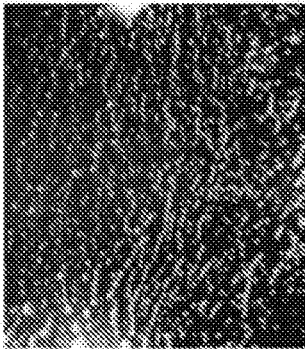
t=0, V=0, I=0

FIG. 12C

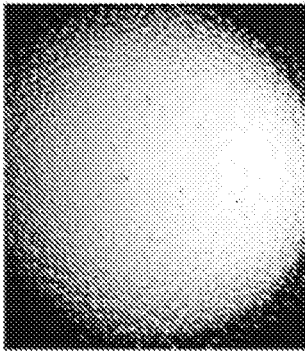
Triboelectrification
of PMMA substrate
rubbed with
polyester fiber
0.083 μ C/m²



t=5 sec



t=2



t=0

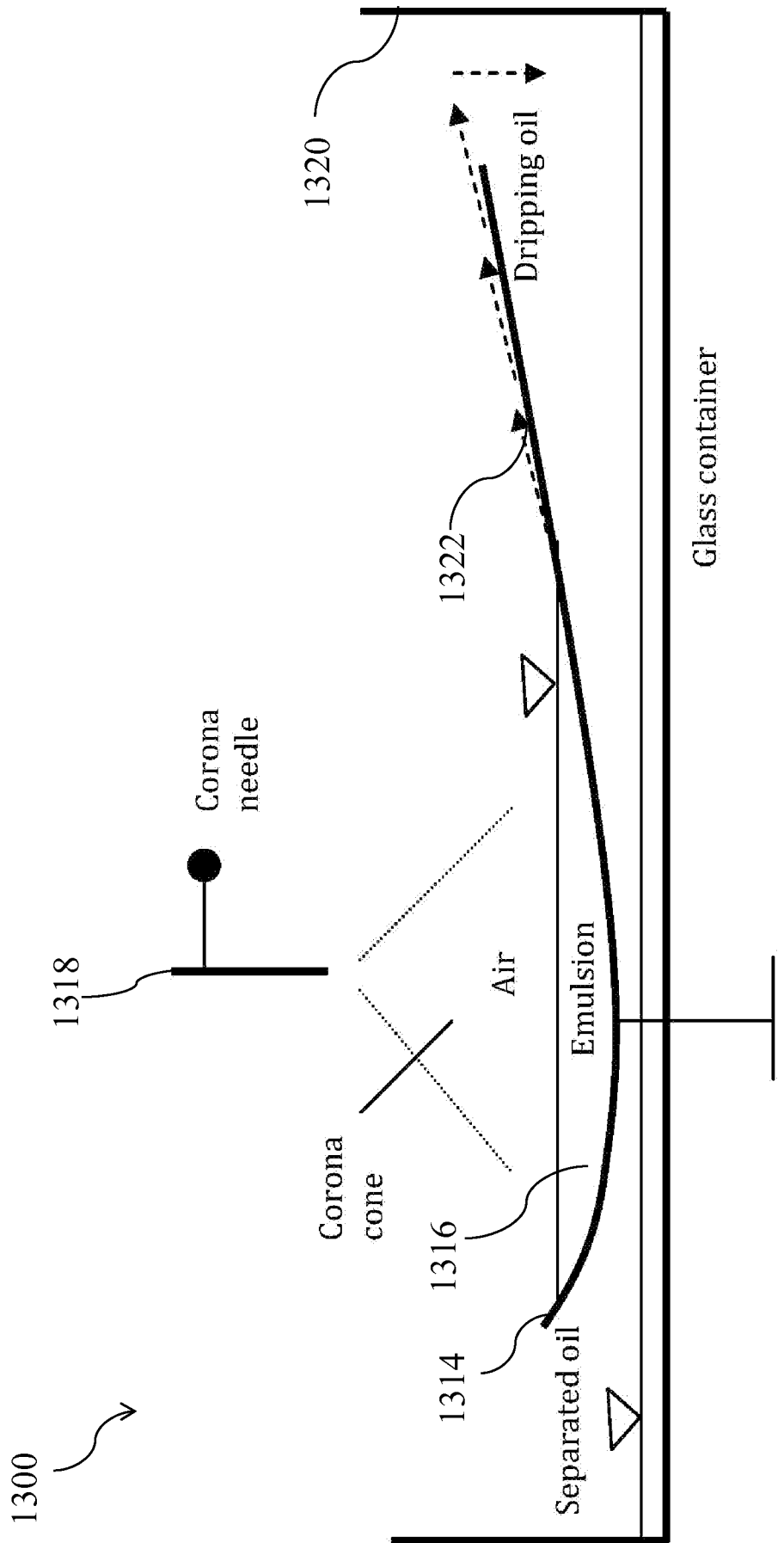


FIG. 13

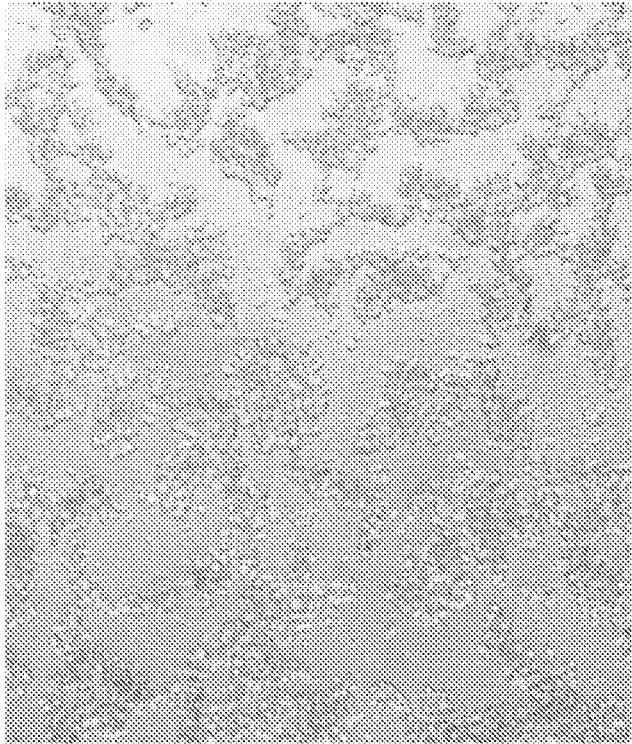


FIG. 14A

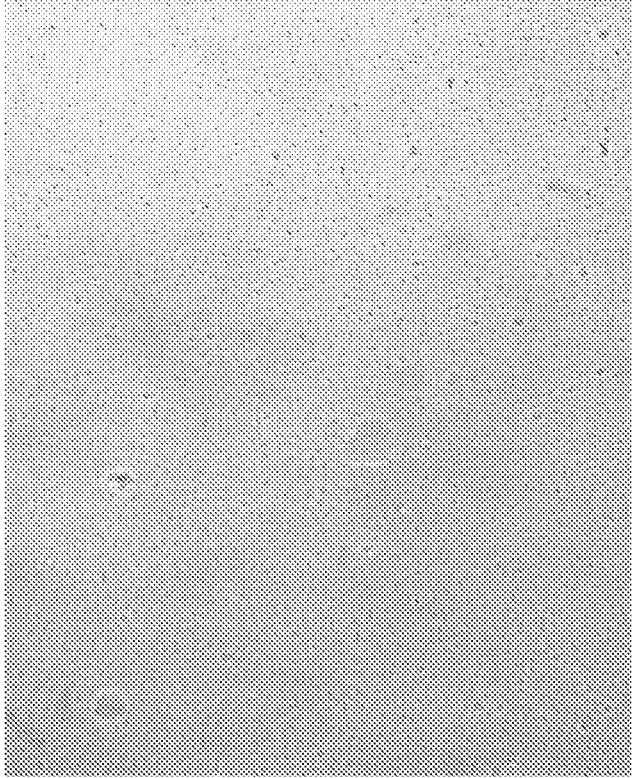


FIG. 14B

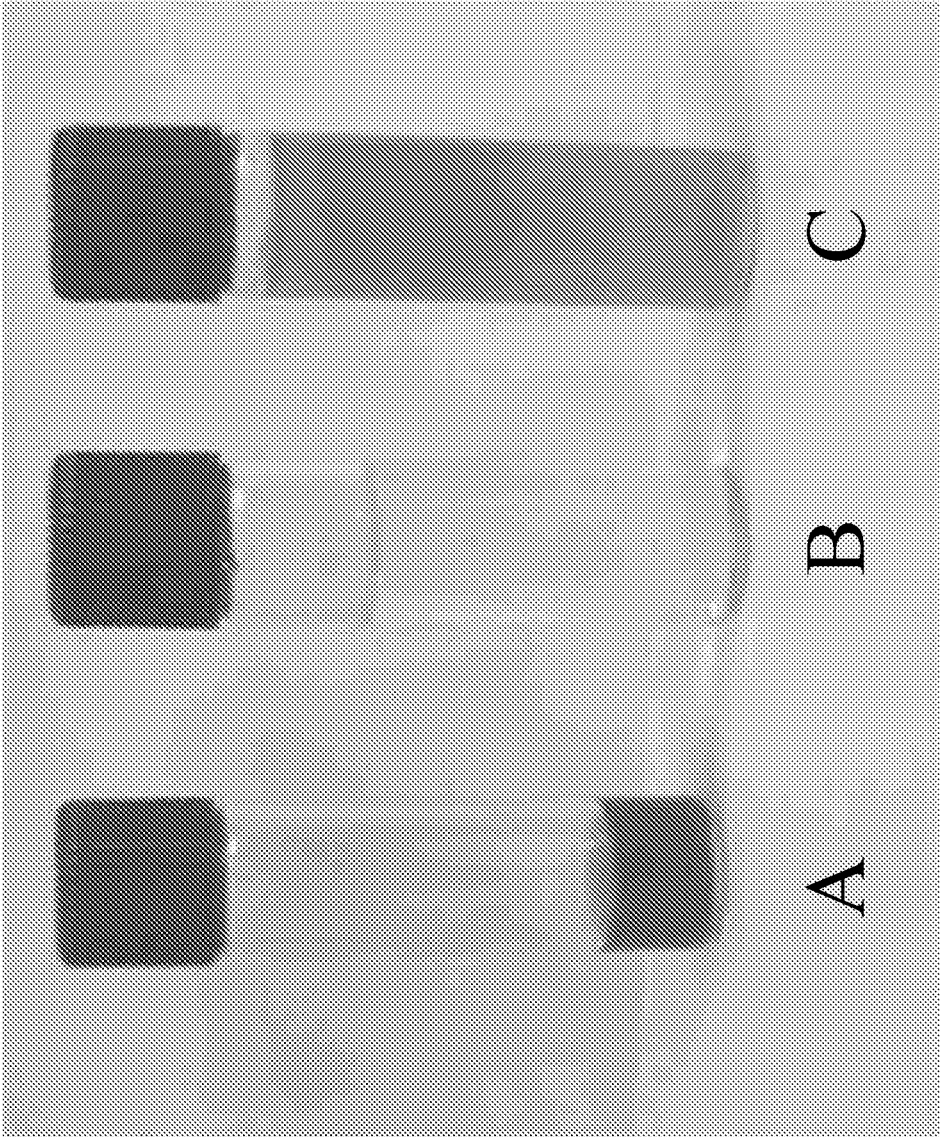


FIG. 15

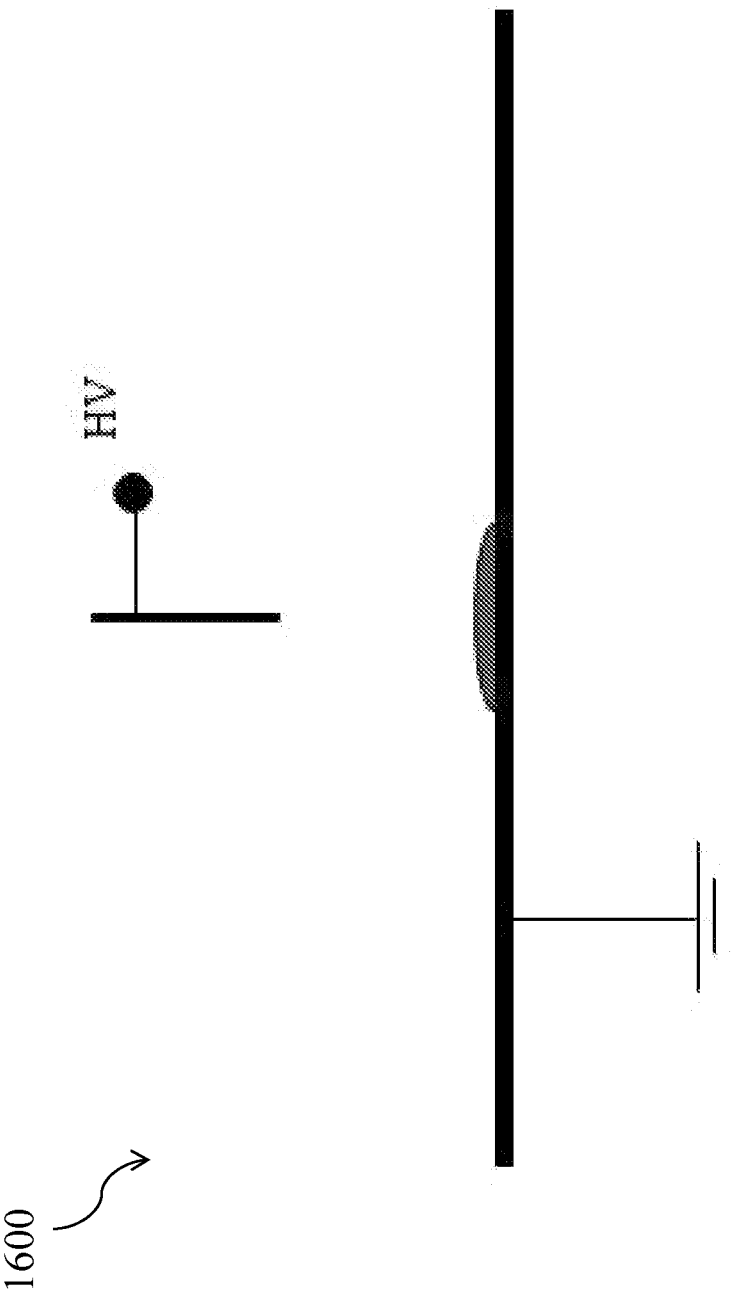


FIG. 16

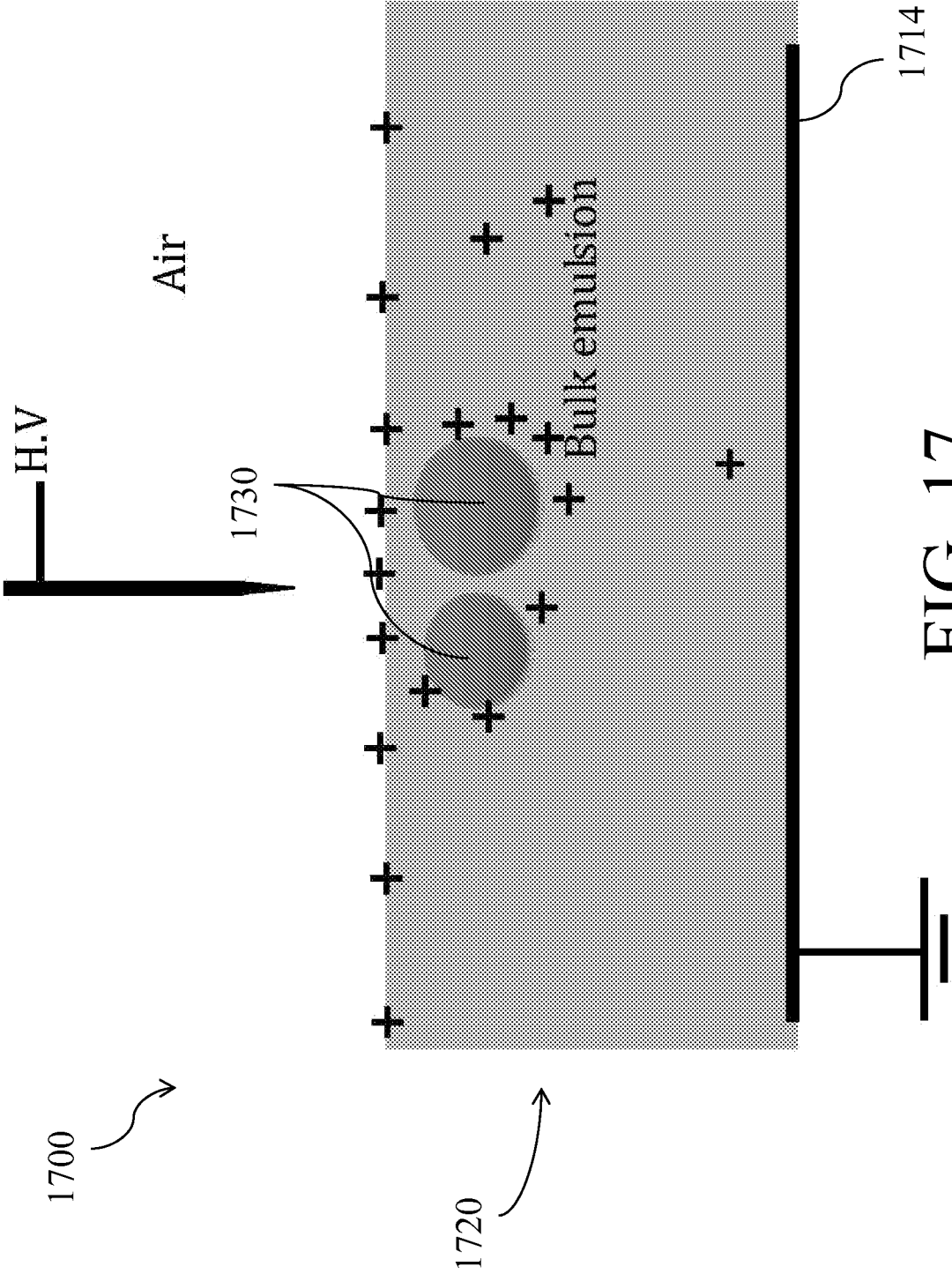


FIG. 17

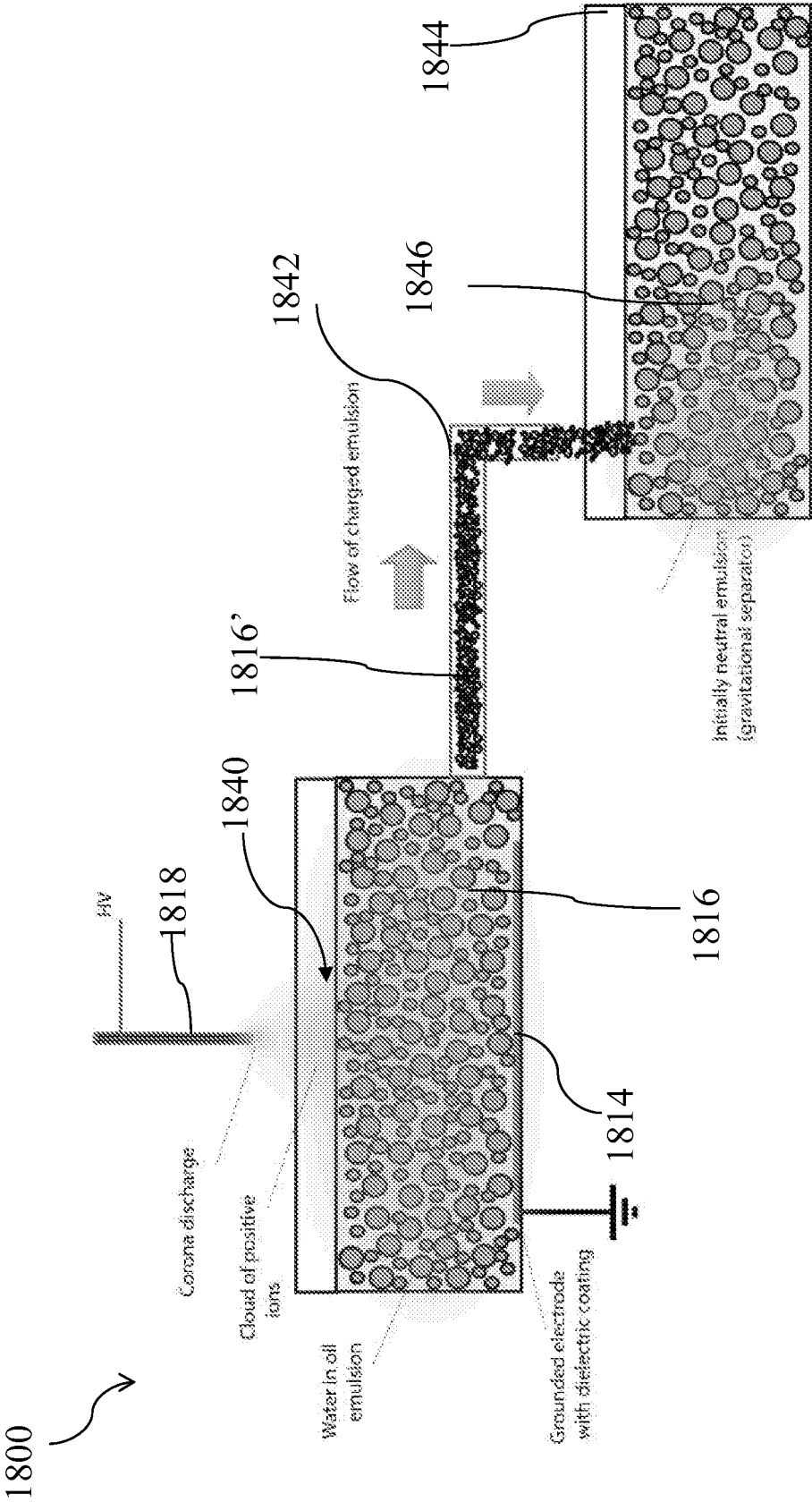


FIG. 18

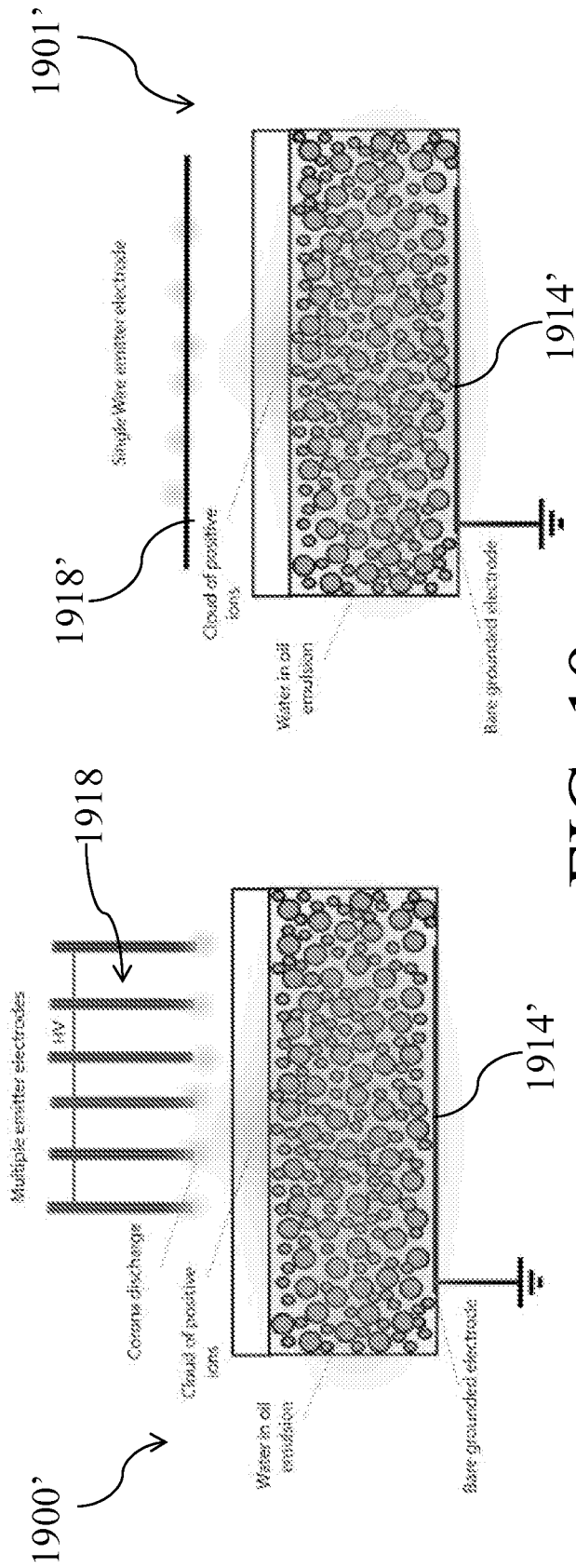
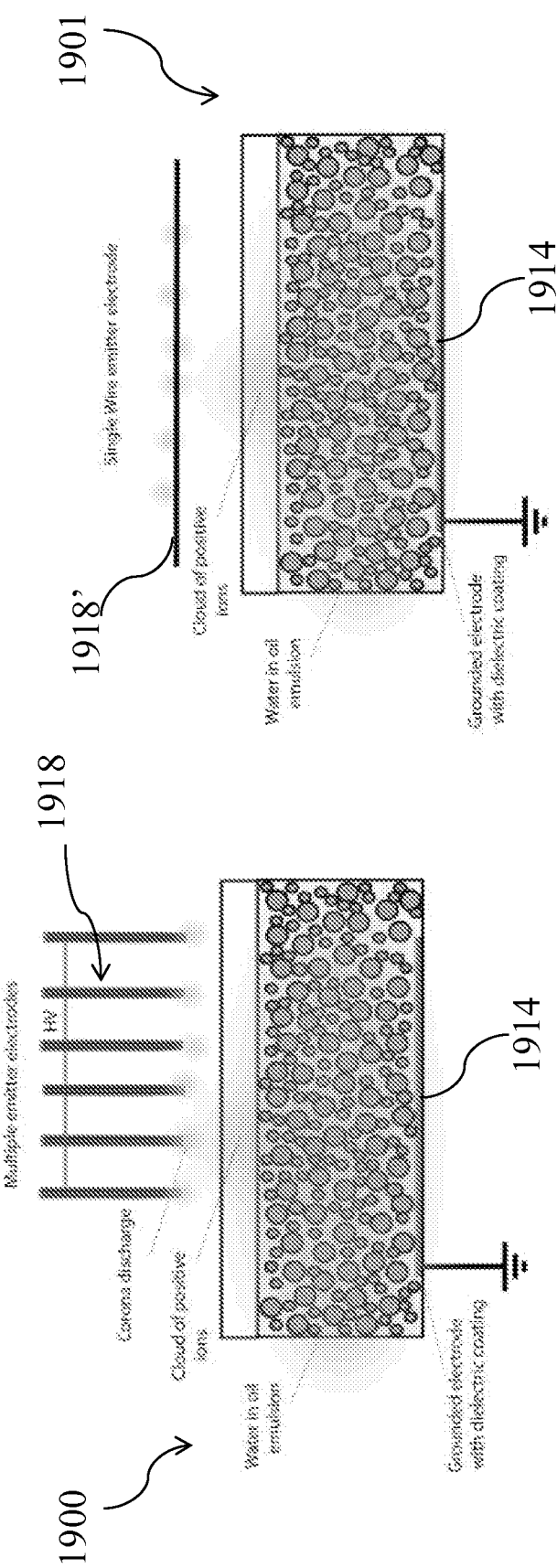
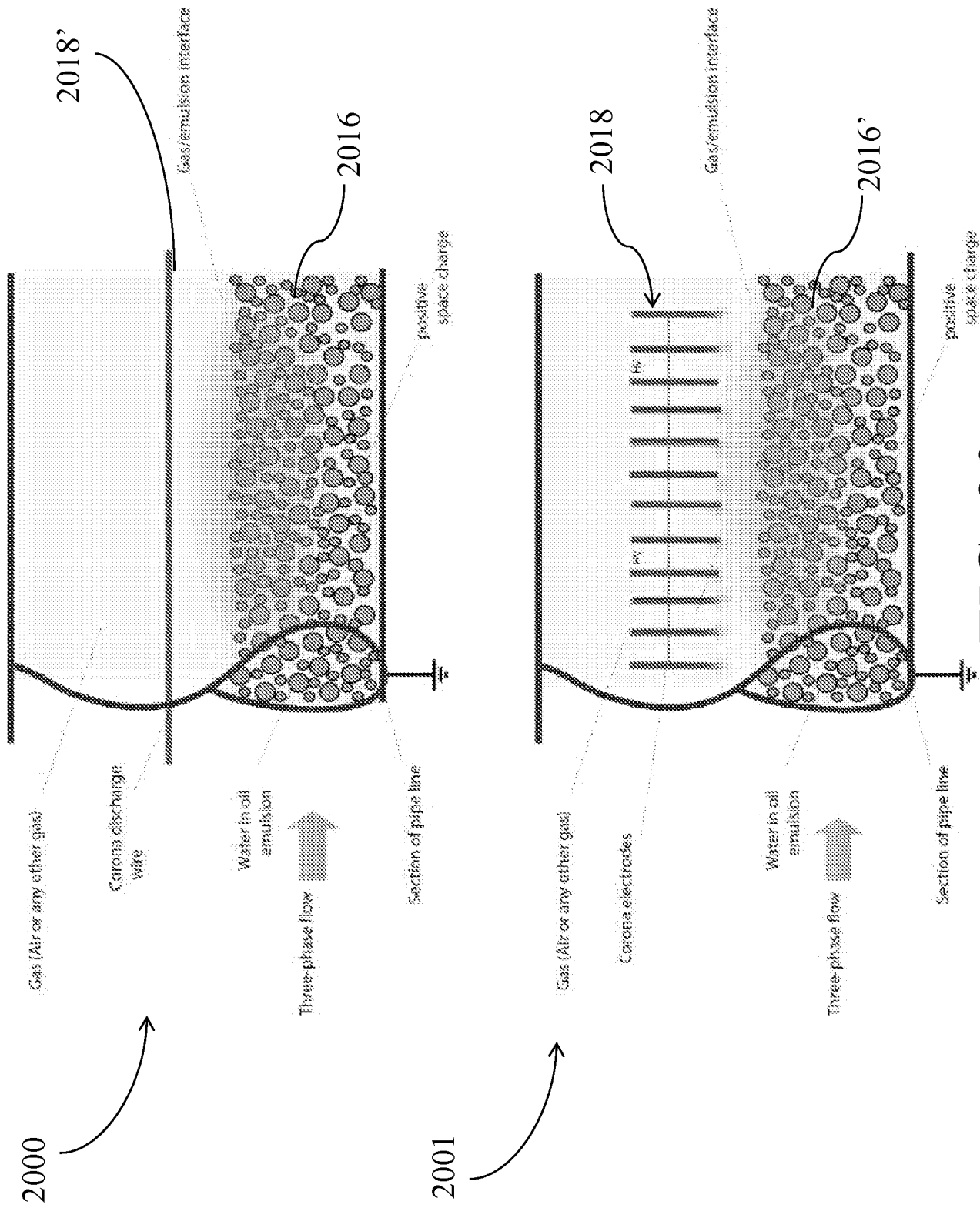


FIG. 19



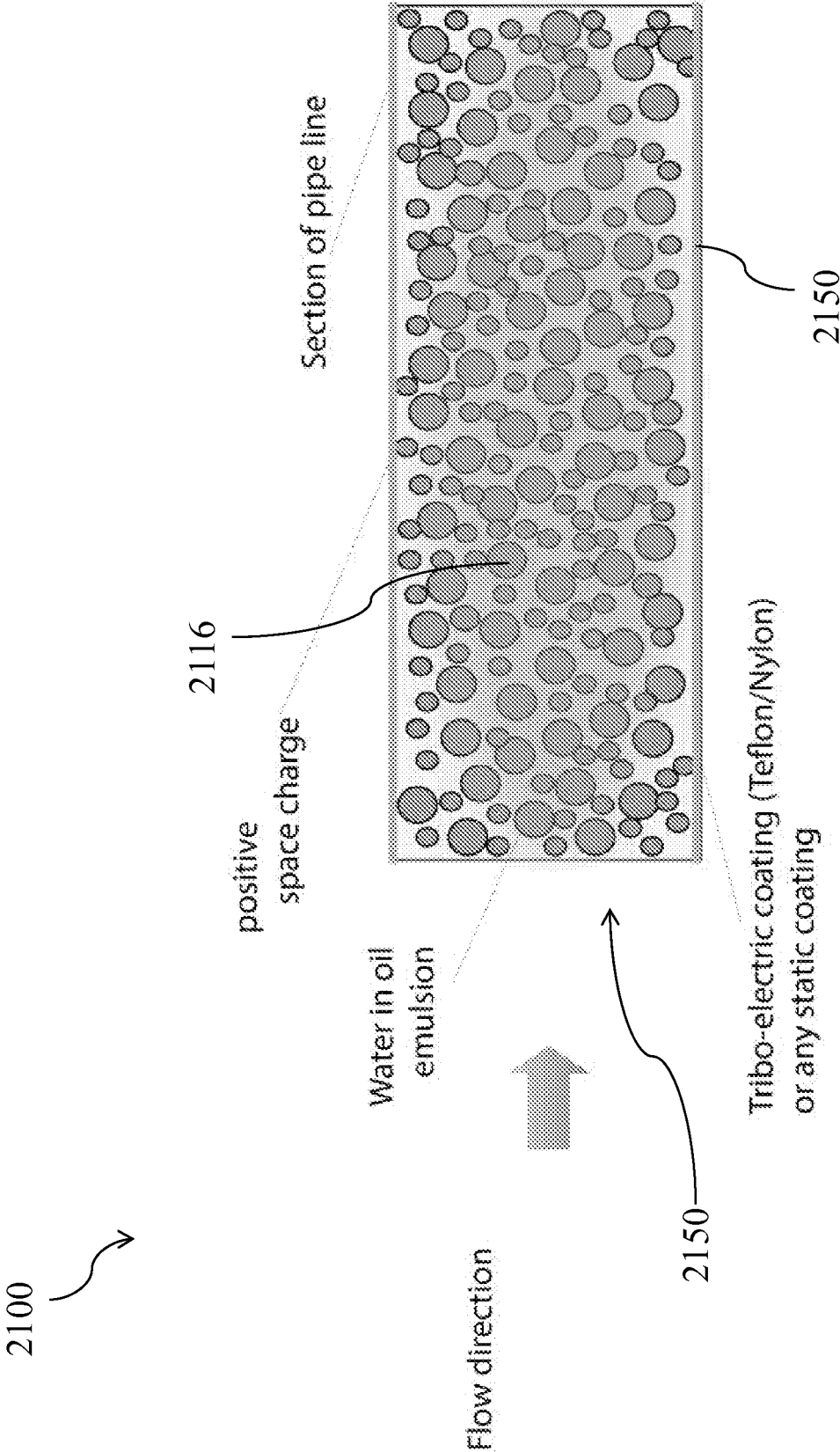


FIG. 21

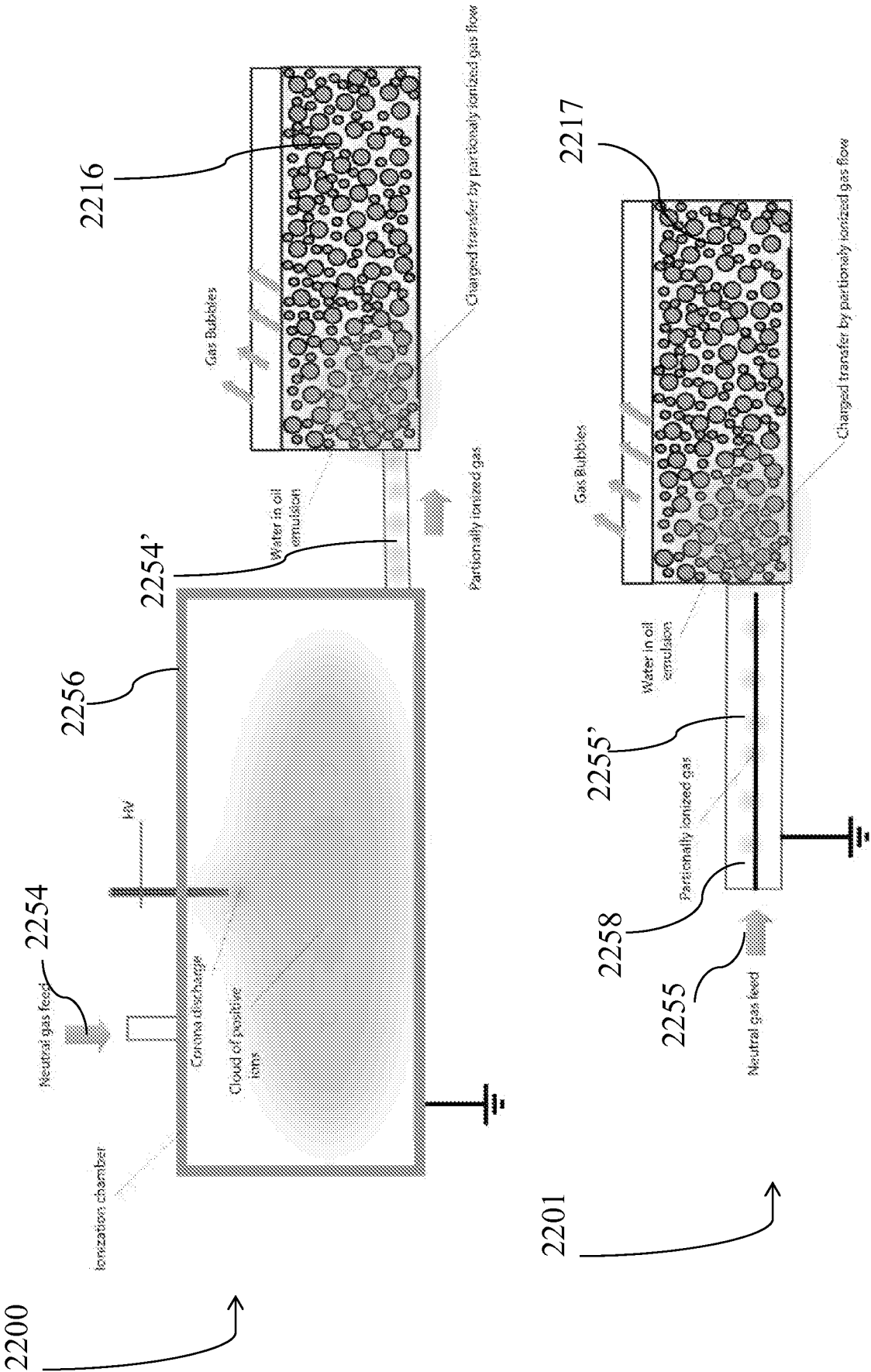


FIG. 22