

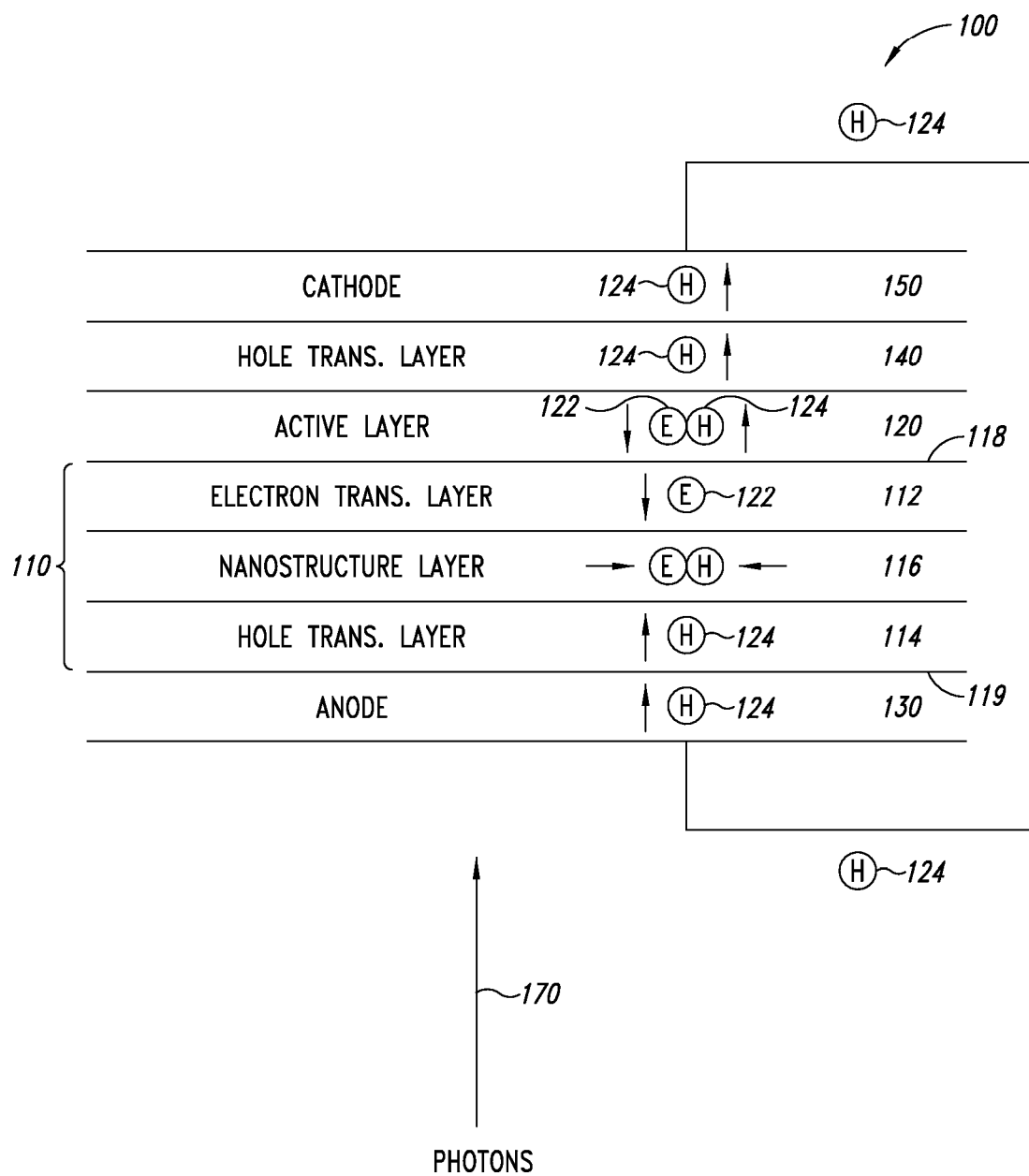


FIG. 1

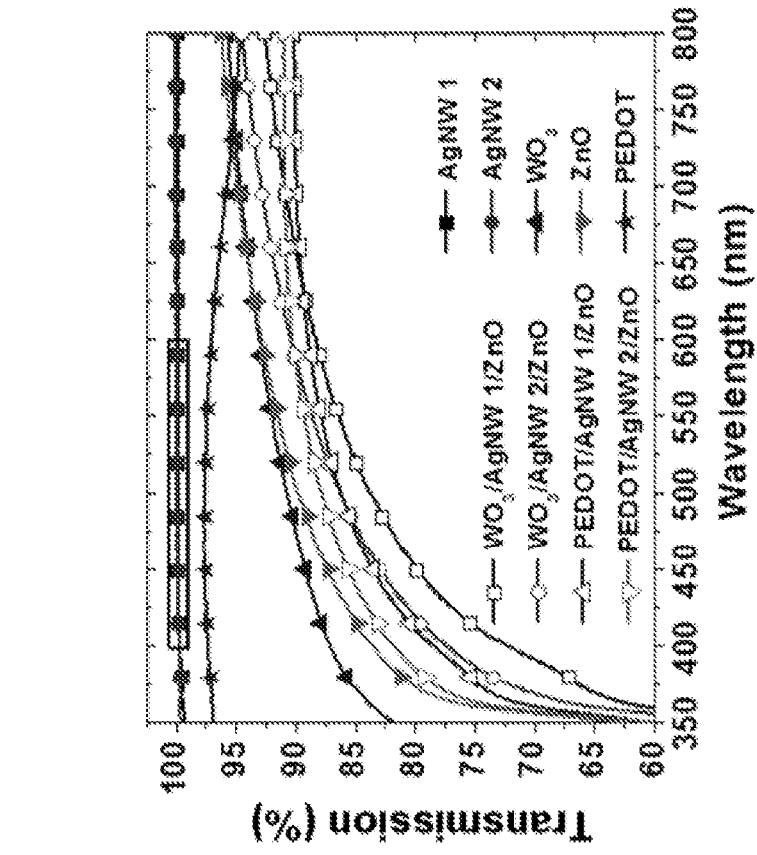


FIG. 2A

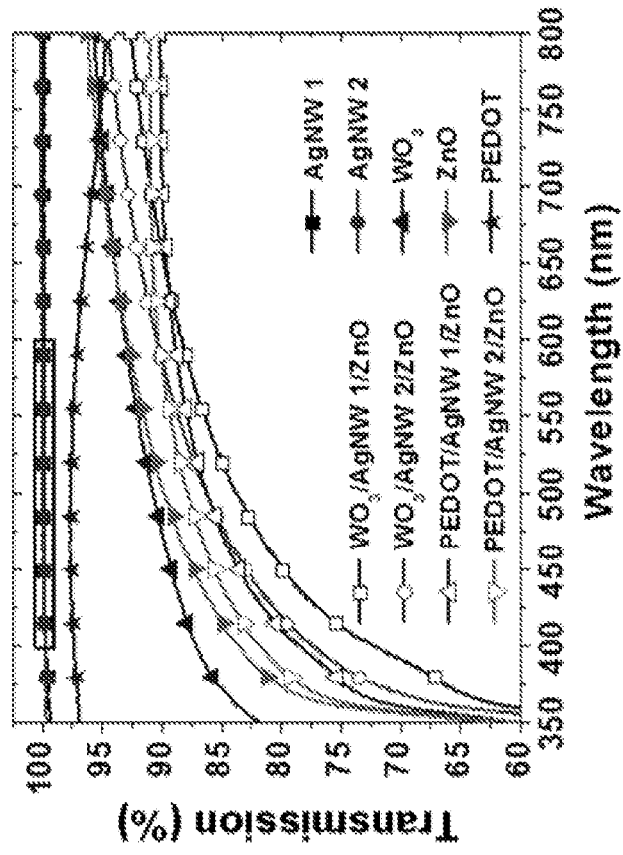
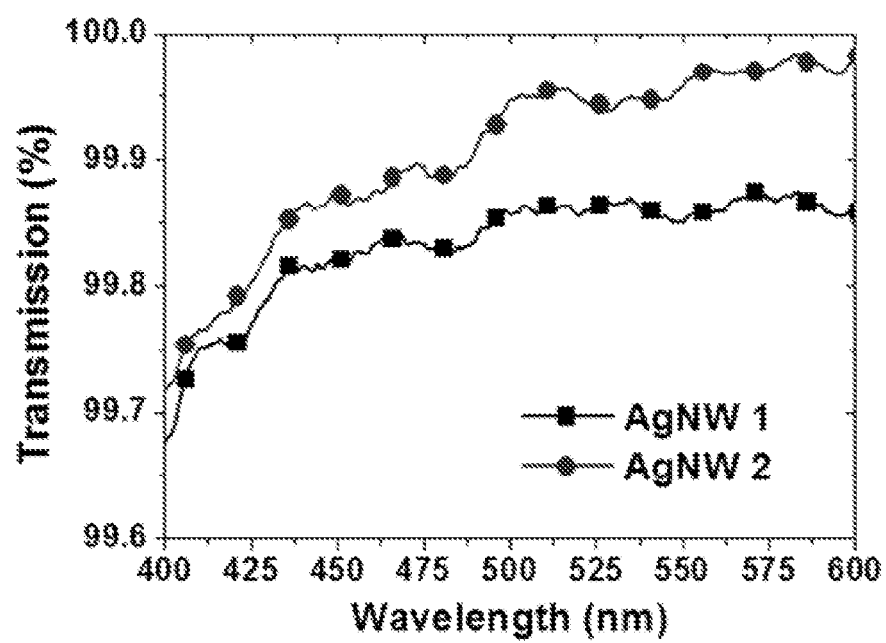


FIG. 2B

*FIG. 2C*

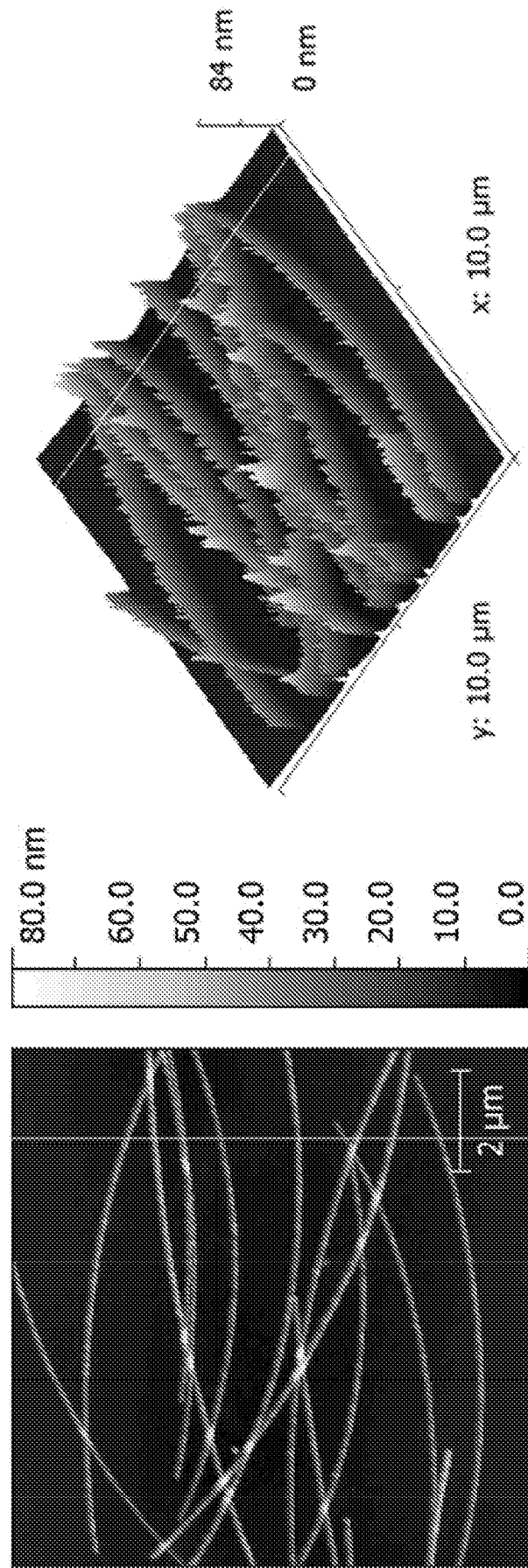
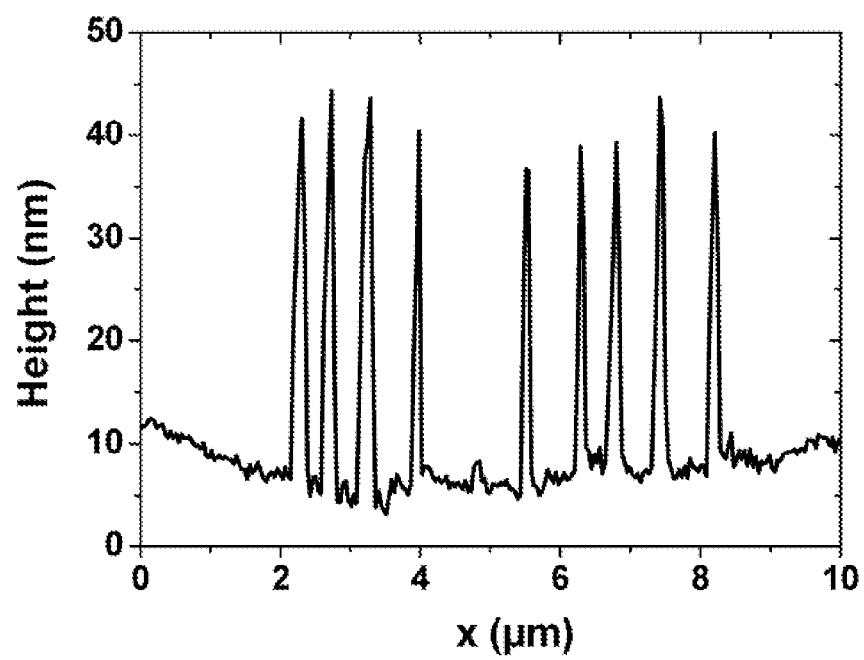


FIG. 3A

*FIG. 3B*

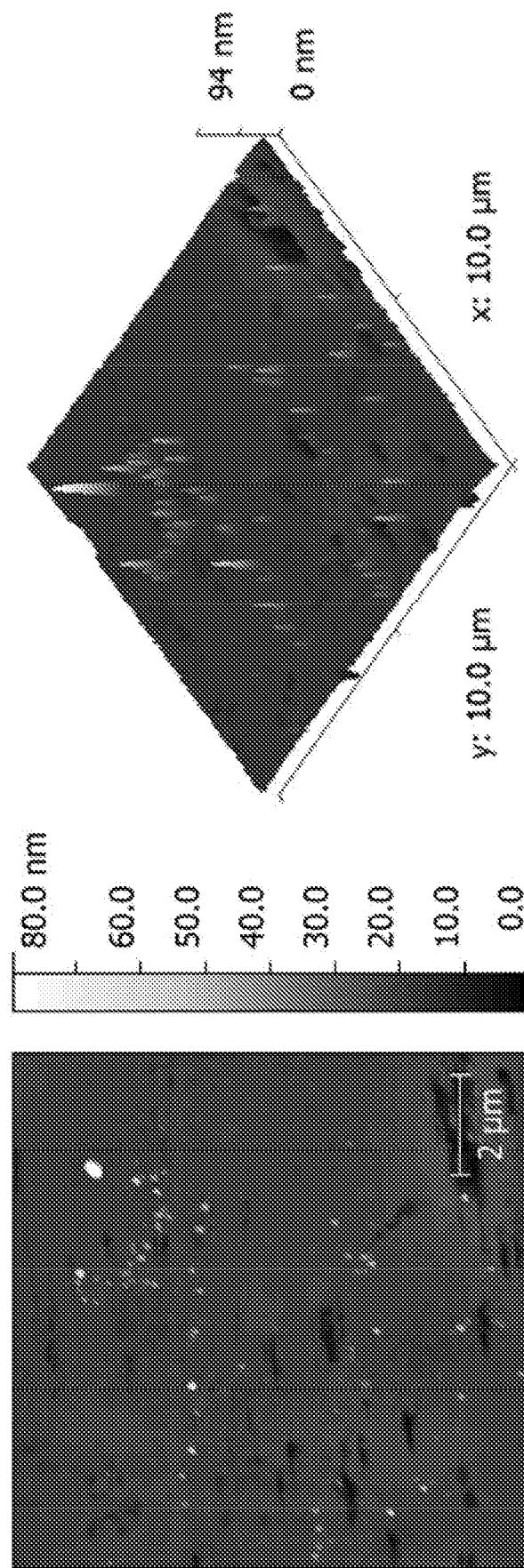


FIG. 3C

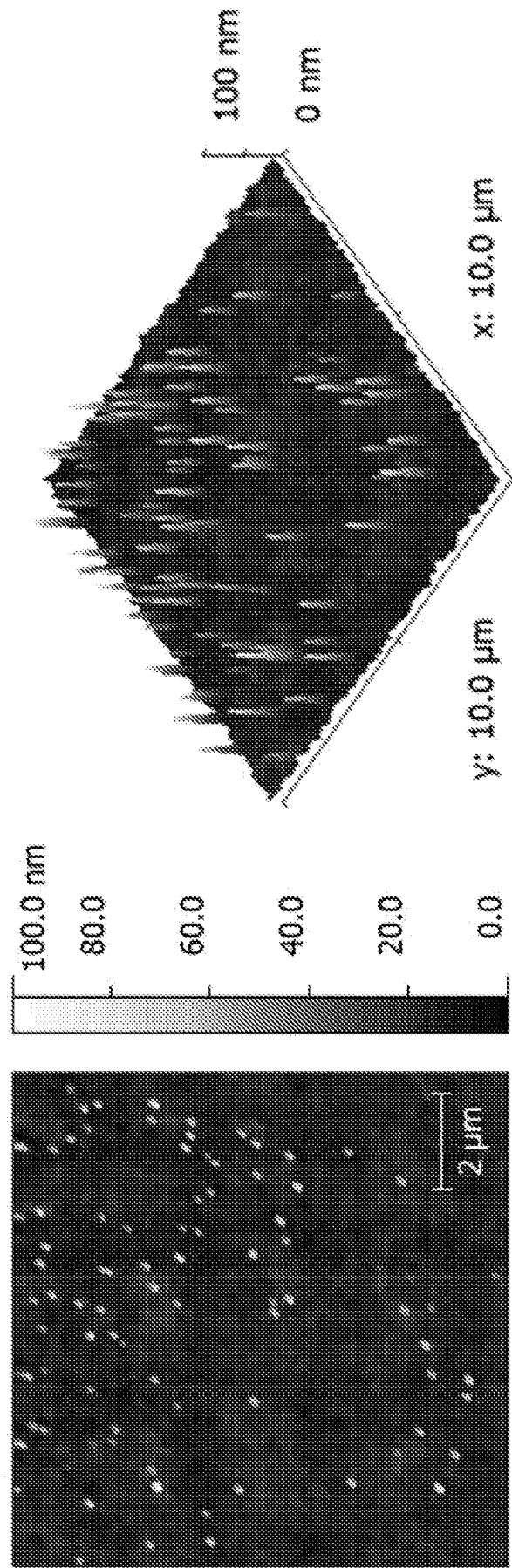
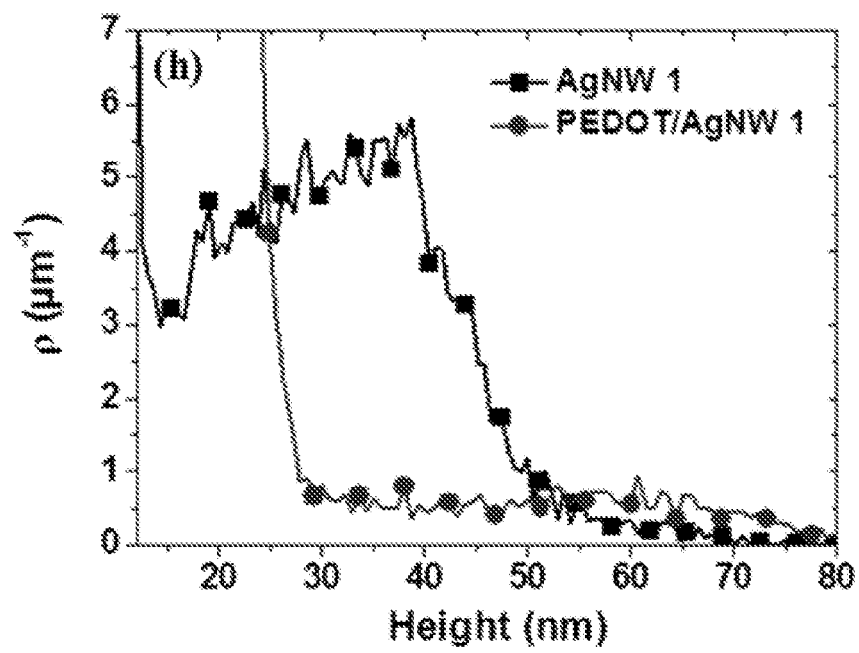


FIG. 3D

*FIG. 3E*

9/22

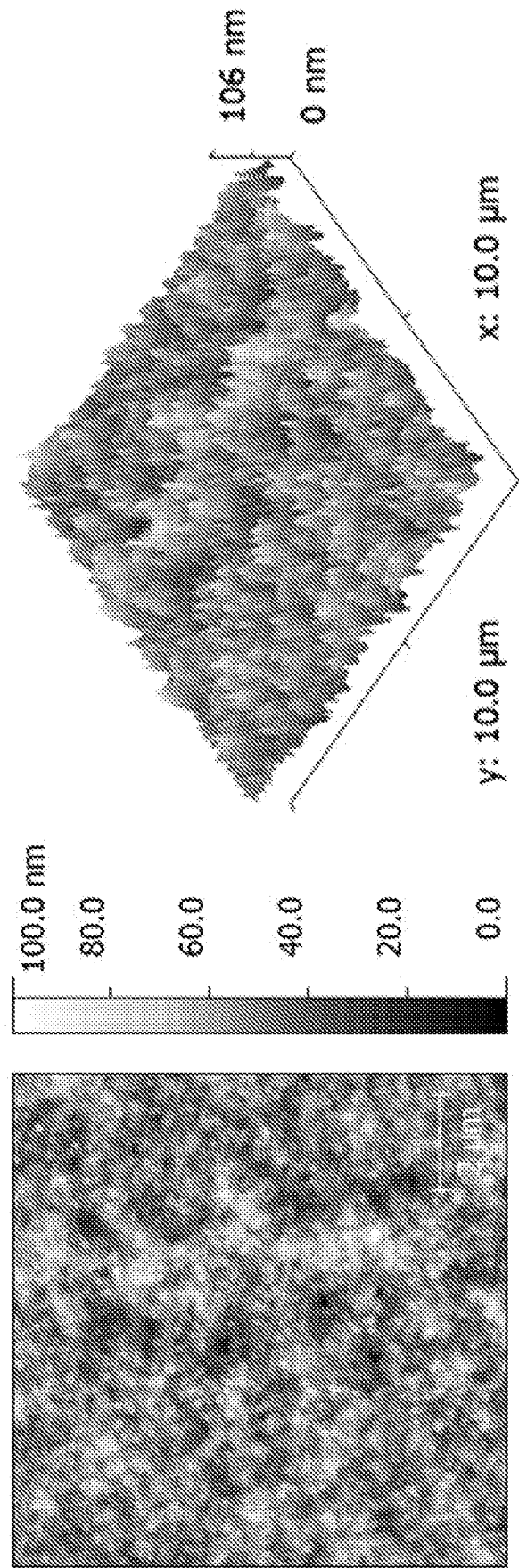


FIG. 3F

10/22

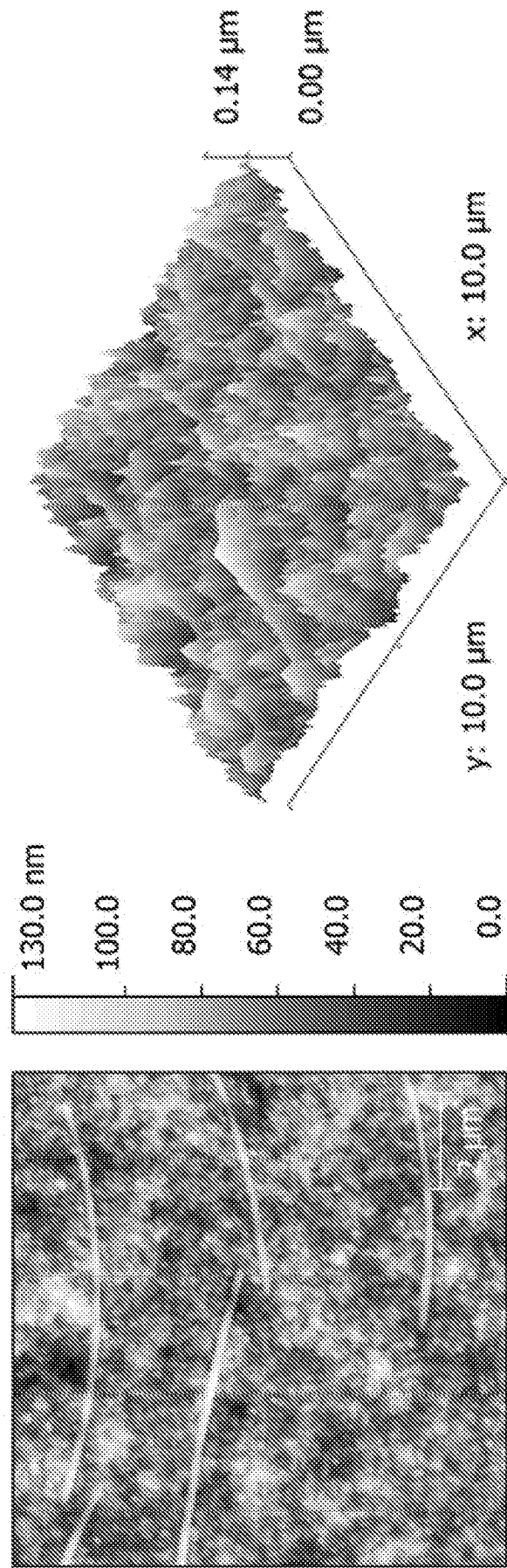


FIG. 3G

11/22

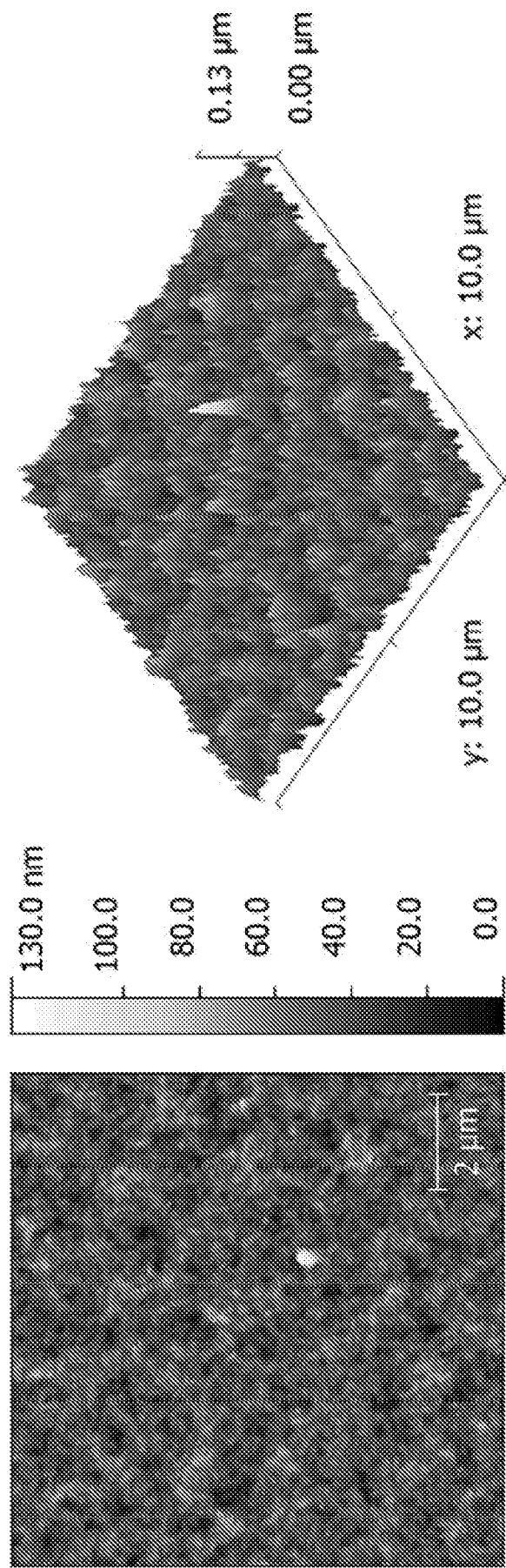
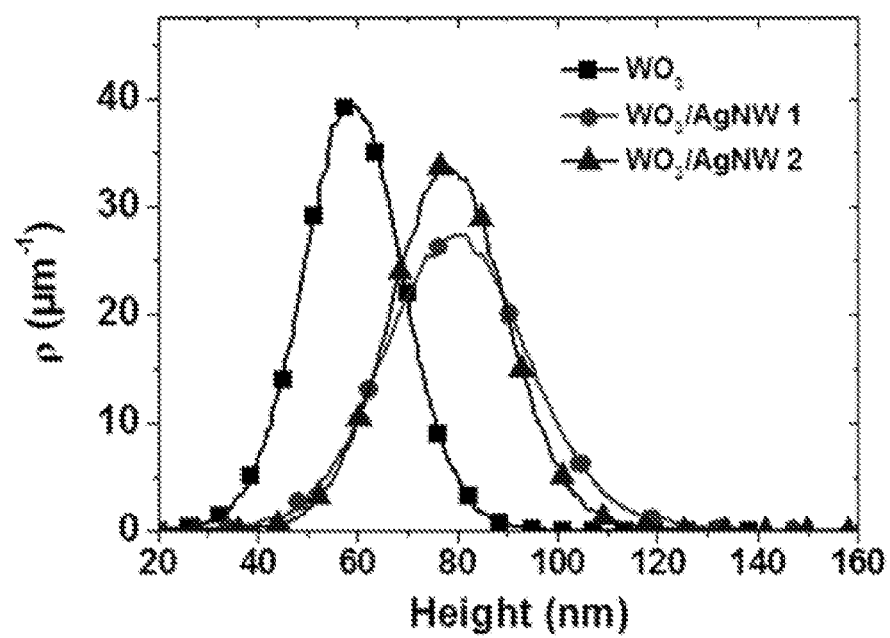


FIG. 3H

*FIG. 3I*

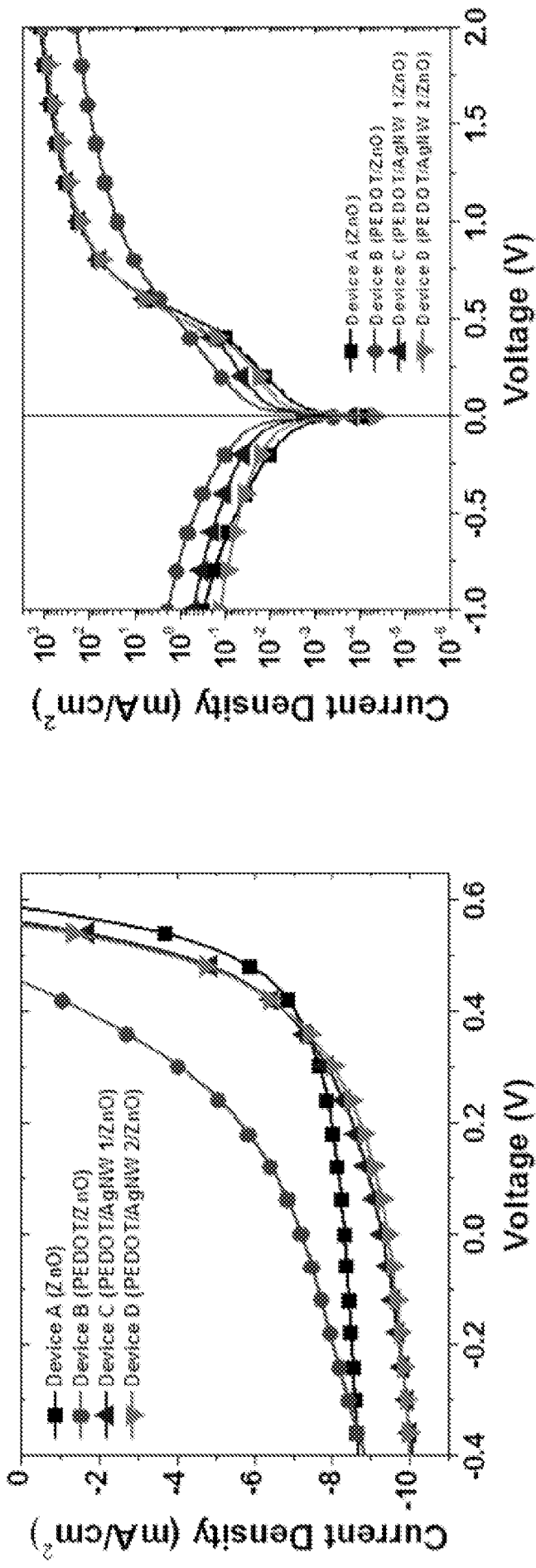


FIG. 4B

FIG. 4A

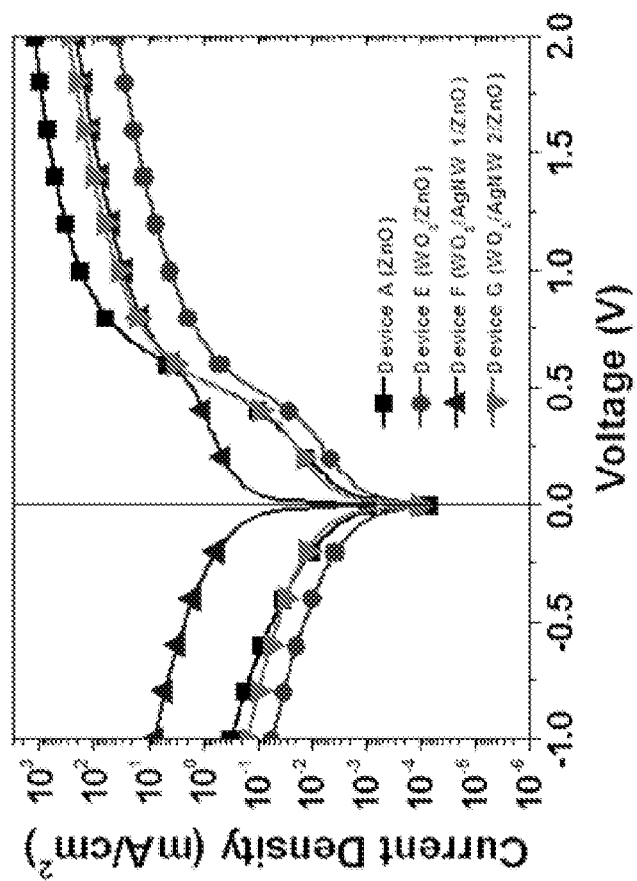


FIG. 4D

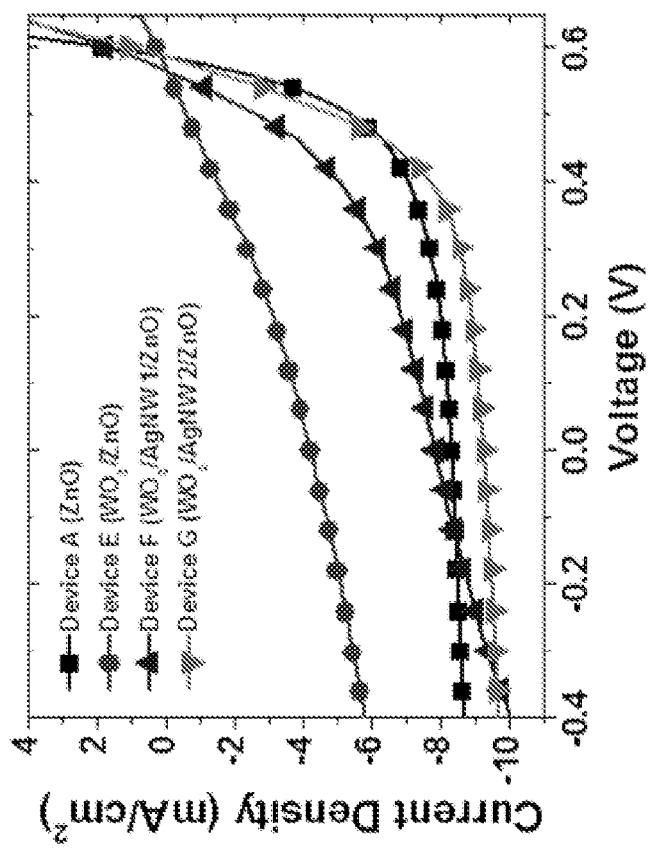


FIG. 4C

Device	Interlayer	V_{oc} [V]	J_{sc} [mA/cm ²]	FF [%]	PCE [%]	R_s [Ω cm ²]	R_{shunt} [k Ω cm ²]
Device A	ZnO	0.58	-8.32	60.5	2.92	0.82	23.95
Device B	PEDOT/ZnO	0.46	-7.21	37.4	1.24	4.61	2.32
Device C	PEDOT/ AgNW 1/ZnO	0.56	-9.28	52.3	2.72	0.84	5.66
Device D	PEDOT/ AgNW 2/ZnO	0.56	-9.42	51.4	2.72	0.93	12.52
Device E	WO ₃ /ZnO	0.56	-4.20	30.0	0.70	22.1	57.31
Device F	WO ₃ / AgNW 1/ZnO	0.56	-7.82	46.3	2.03	4.25	0.43
Device G	WO ₃ / AgNW 2/ZnO	0.58	-9.24	57.8	3.10	3.01	16.71

FIG. 5

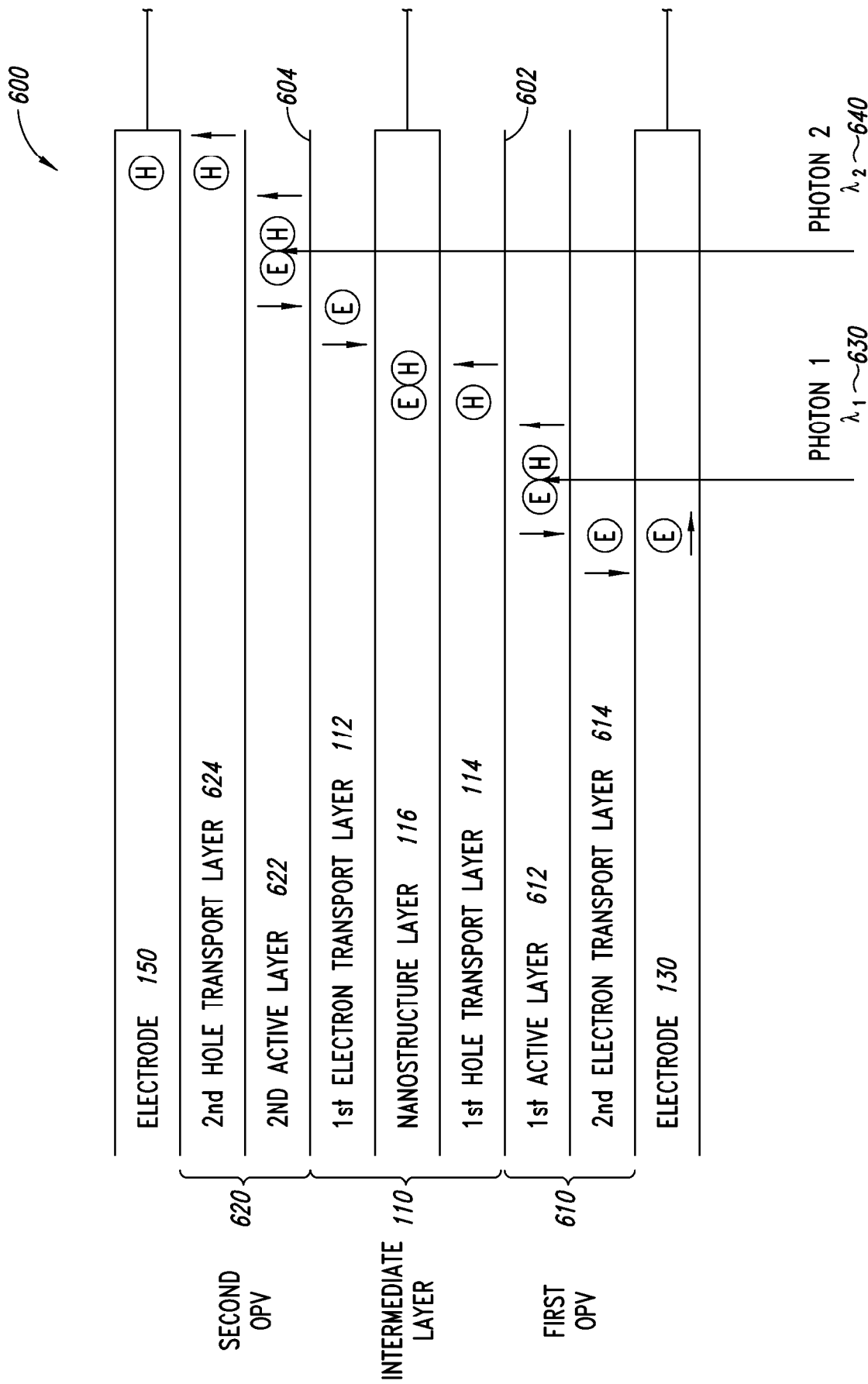


FIG. 6

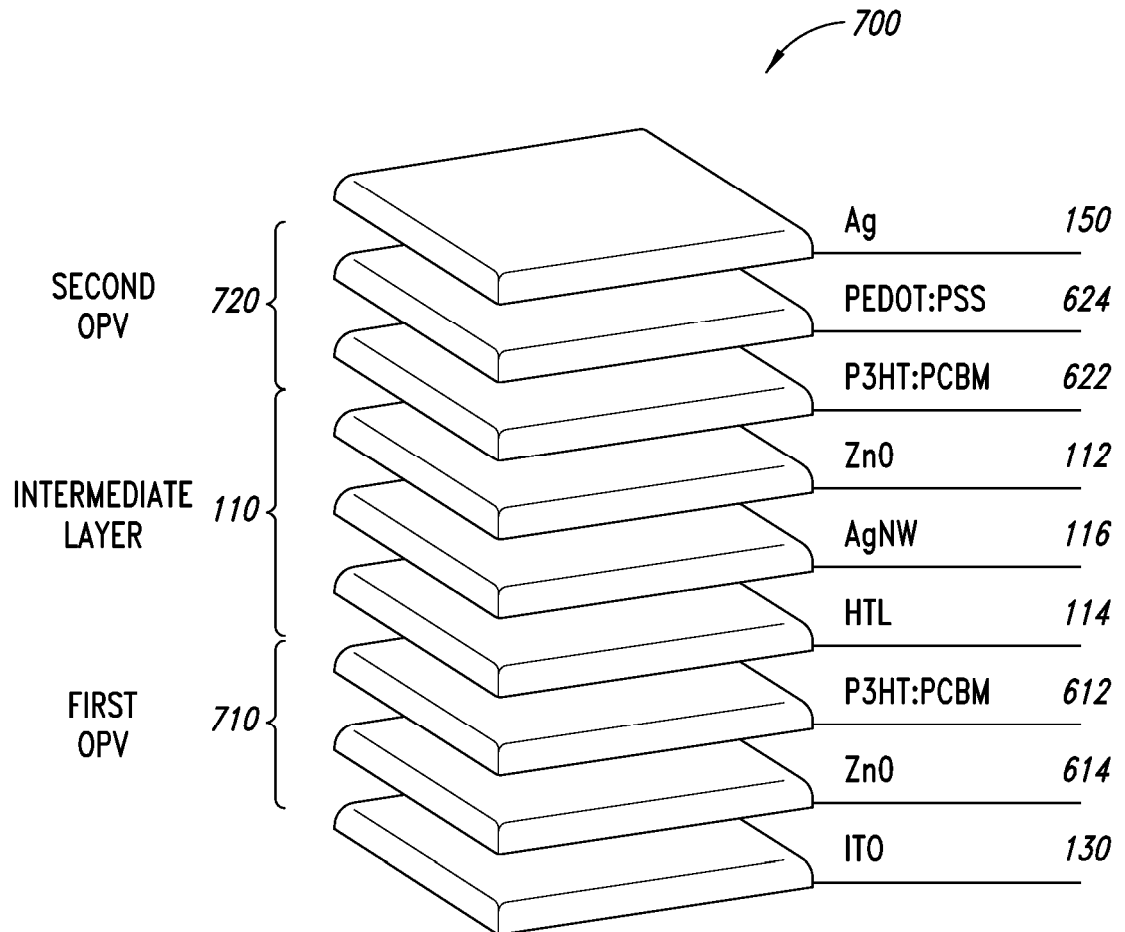


FIG. 7A

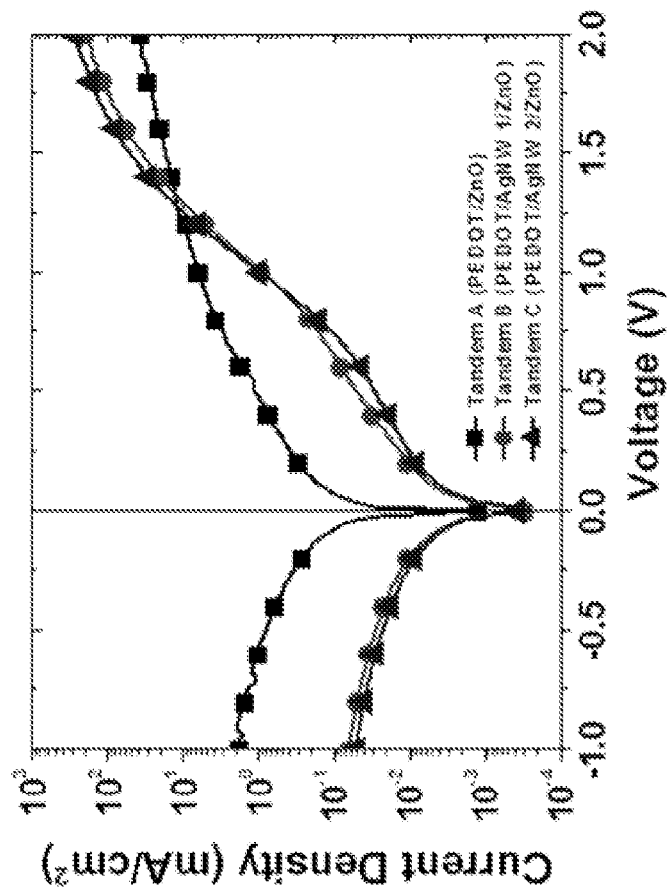


FIG. 7C

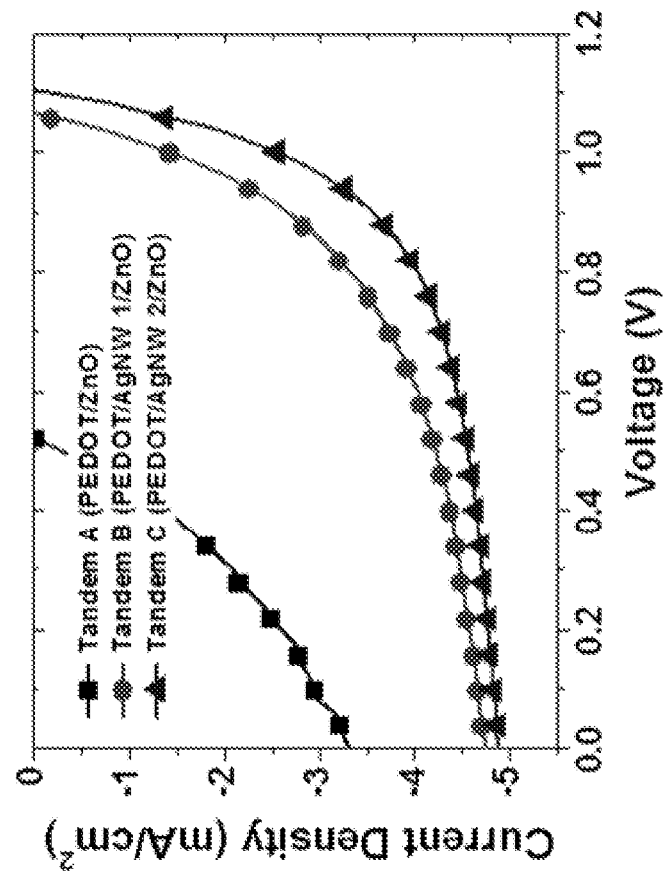


FIG. 7B

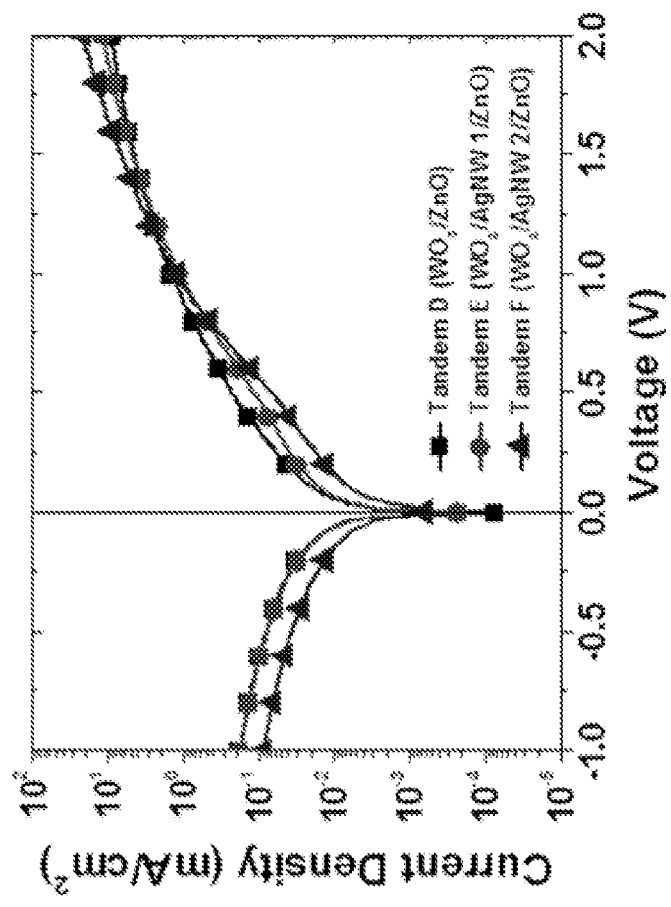


FIG. 7E

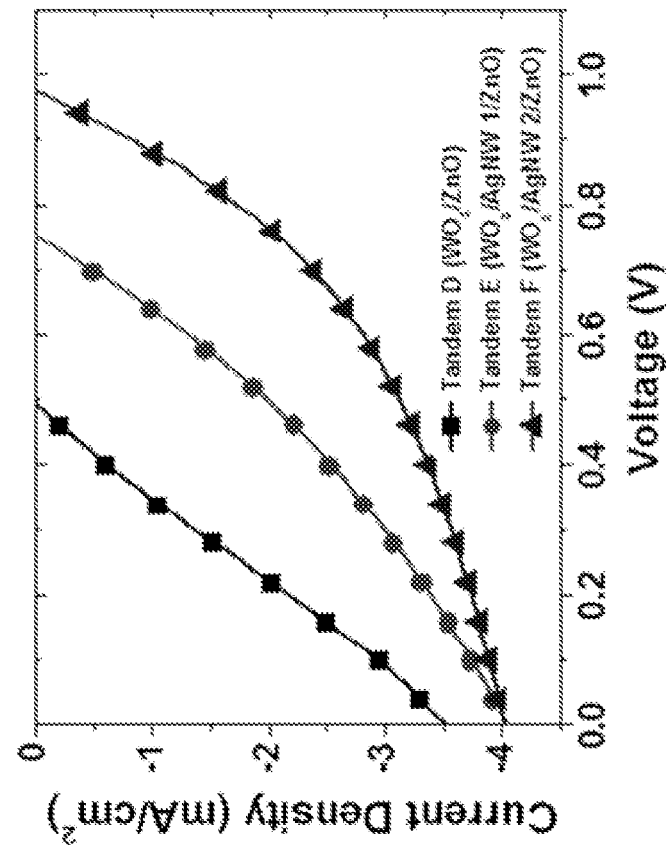


FIG. 7D

Device	Interlayer	V_{oc} [V]	J_{sc} [mA/cm ²]	FF [%]	PCE [%]	R_s [Ω cm ²]	R_{shunt} [k Ω cm ²]
Tandem A	PEDOT/ZnO	0.52	-3.32	36.2	0.63	20.01	0.74
Tandem B	PEDOT/ AgNW 1/ZnO	1.06	-4.74	53.1	2.67	2.73	20.84
Tandem C	PEDOT/ AgNW 2/ZnO	1.10	-4.87	60.7	3.25	1.93	24.93
Tandem D	WO ₃ /ZnO	0.50	-3.51	25.2	0.44	109.41	5.81
Tandem E	WO ₃ / AgNW 1/ZnO	0.76	-4.05	33.2	1.02	68.97	6.83
Tandem F	WO ₃ / AgNW 2/ZnO	0.98	-4.02	43.1	1.70	33.88	15.85

FIG. 8

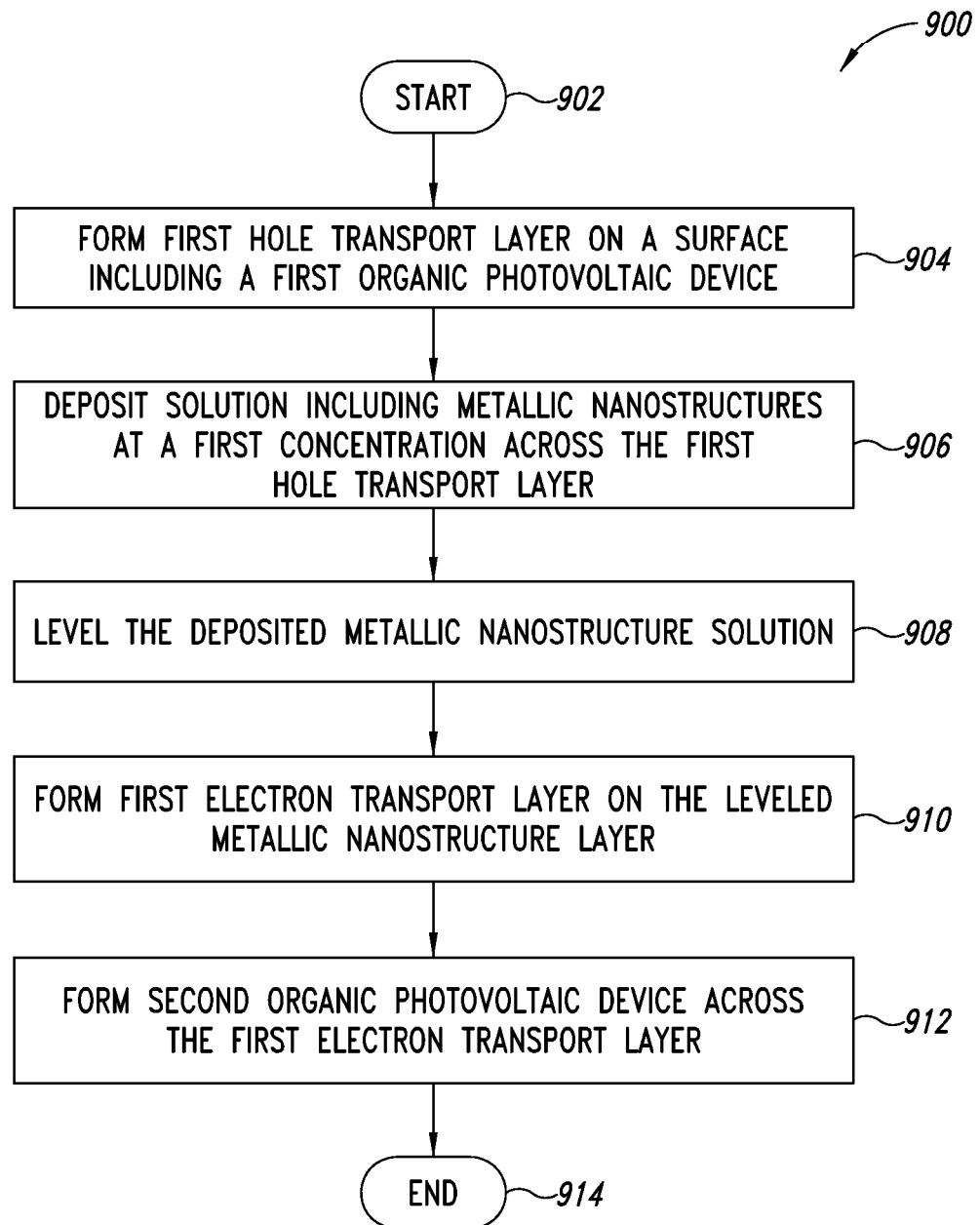
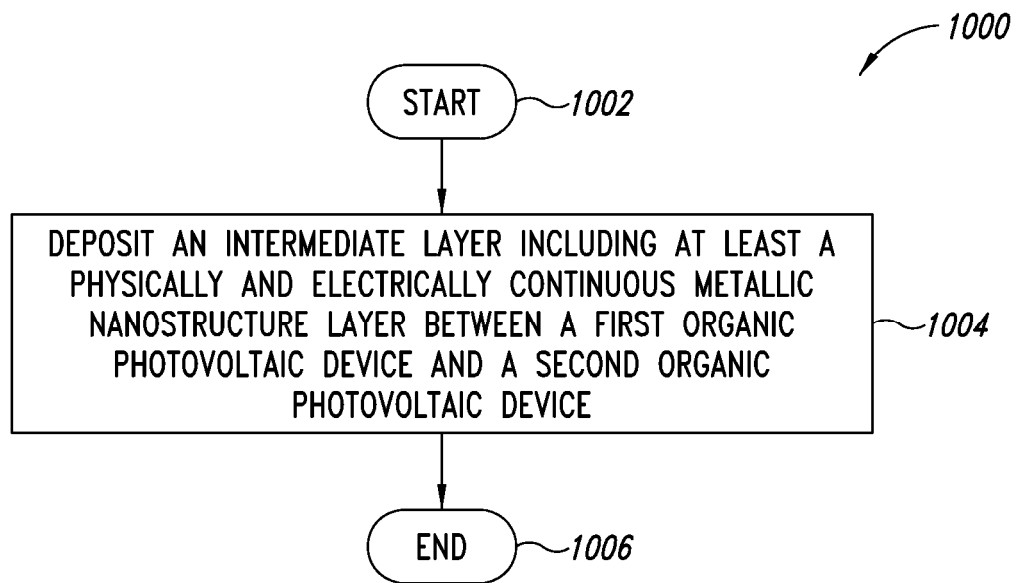


FIG. 9

*FIG. 10*