

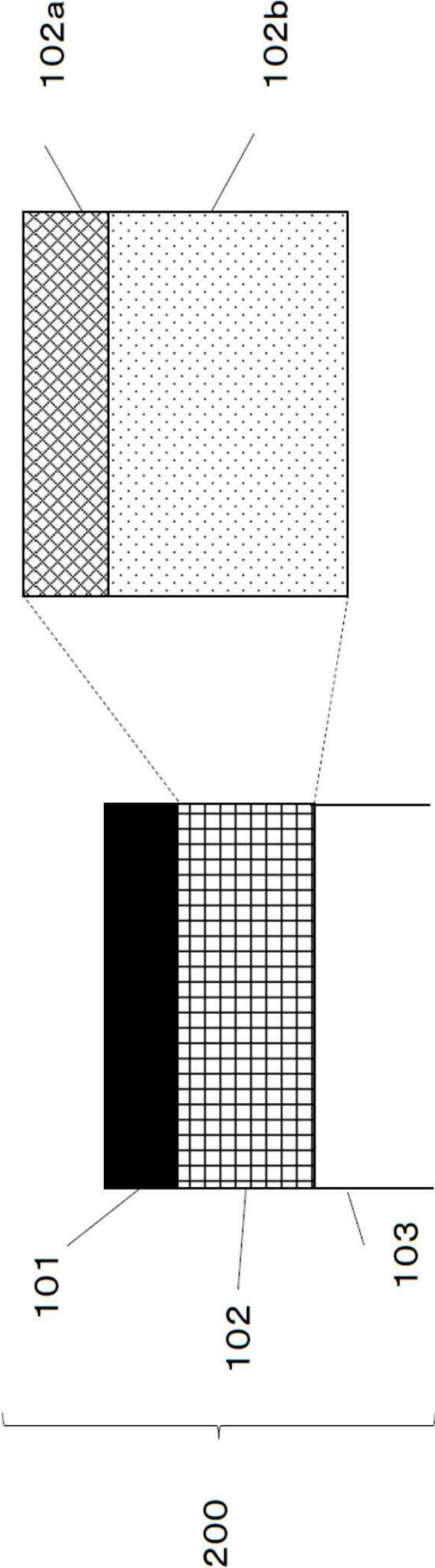


Fig. 1

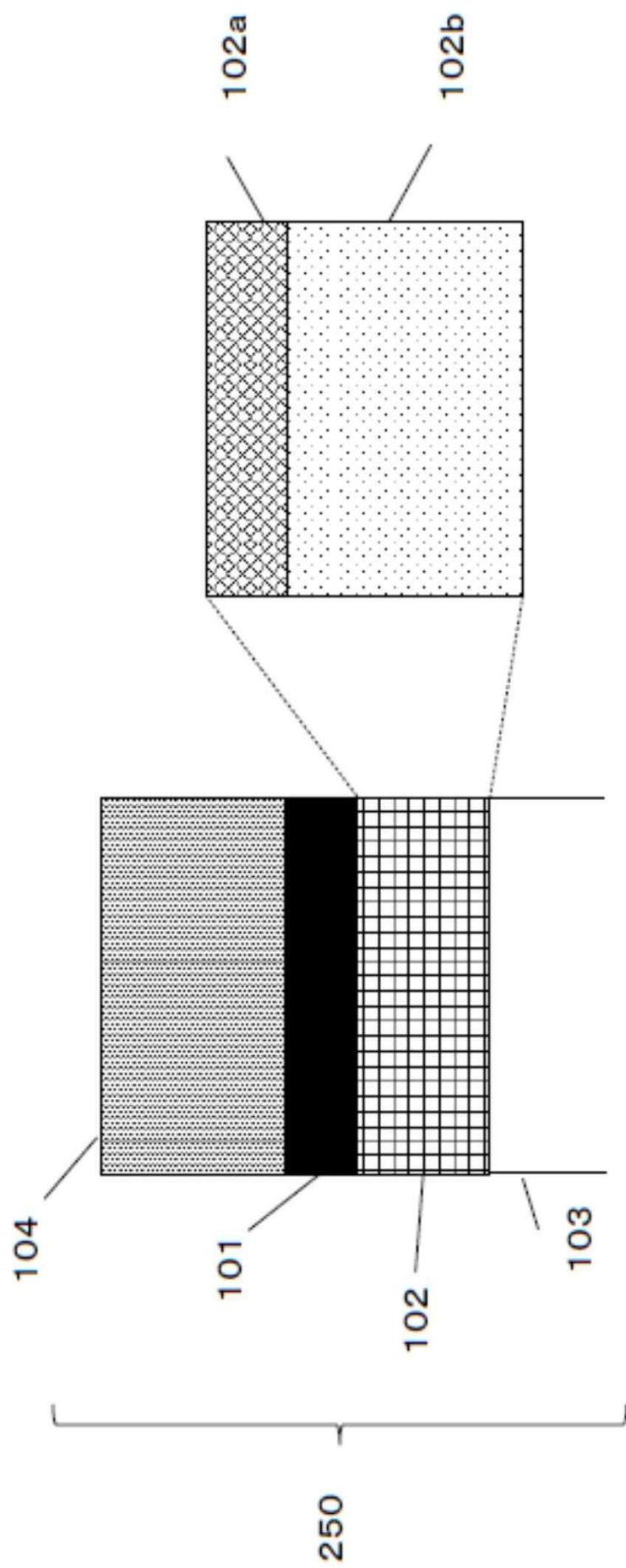


Fig. 3

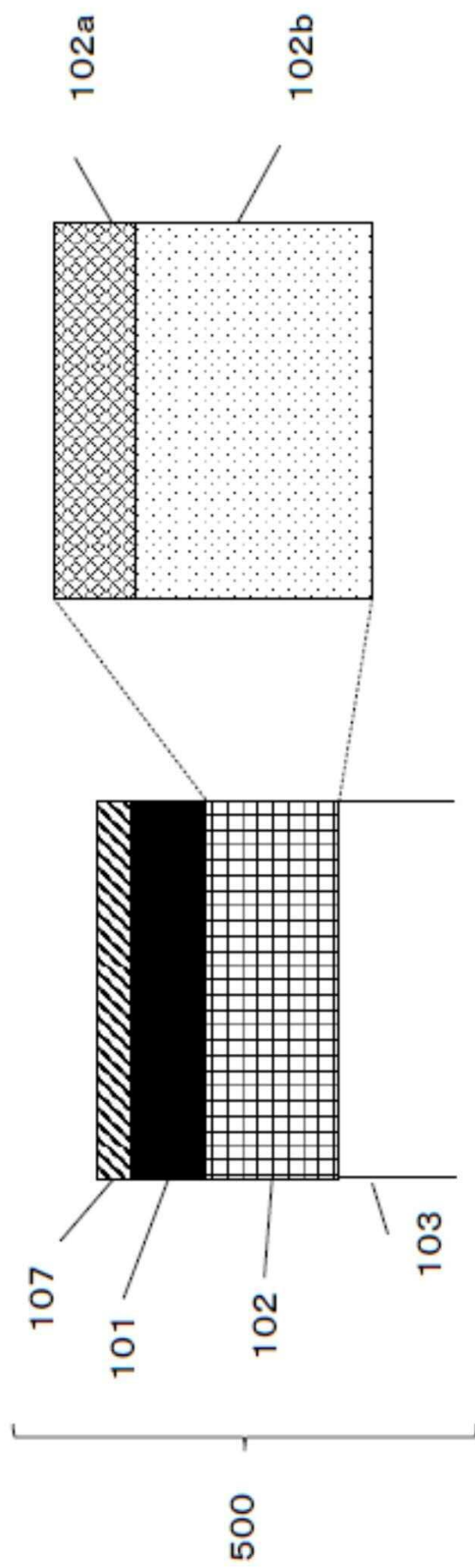


Fig. 4

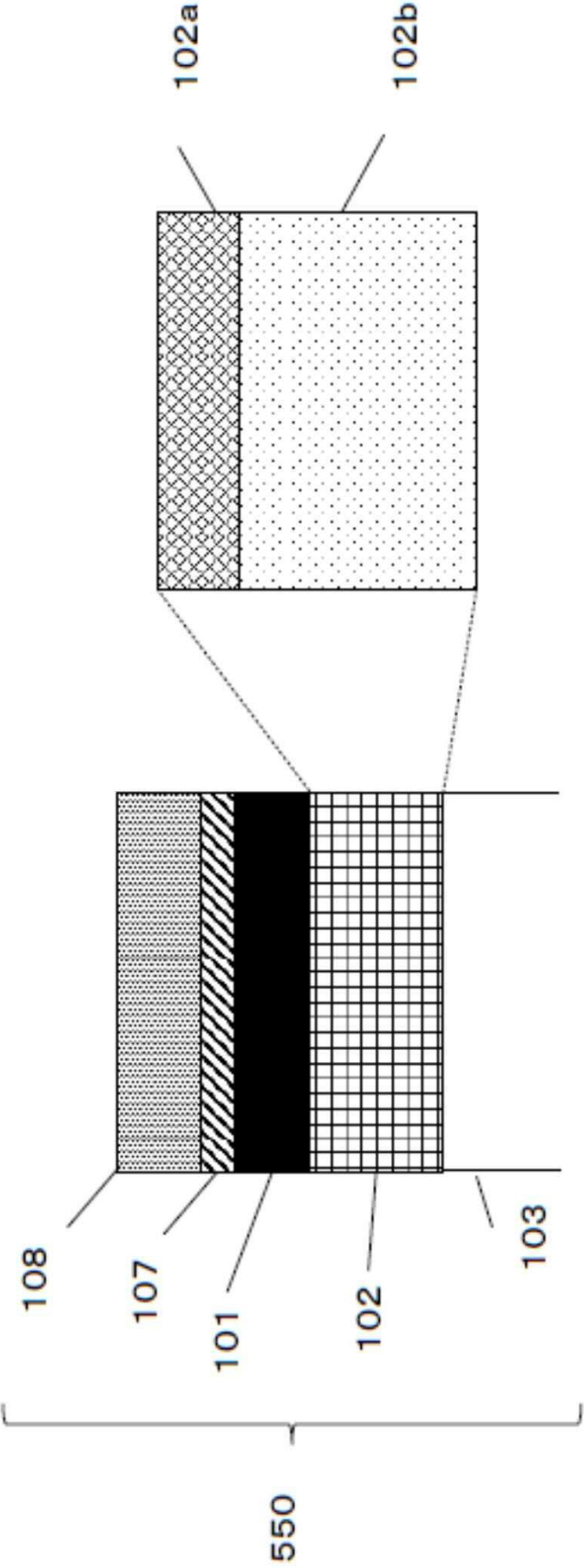
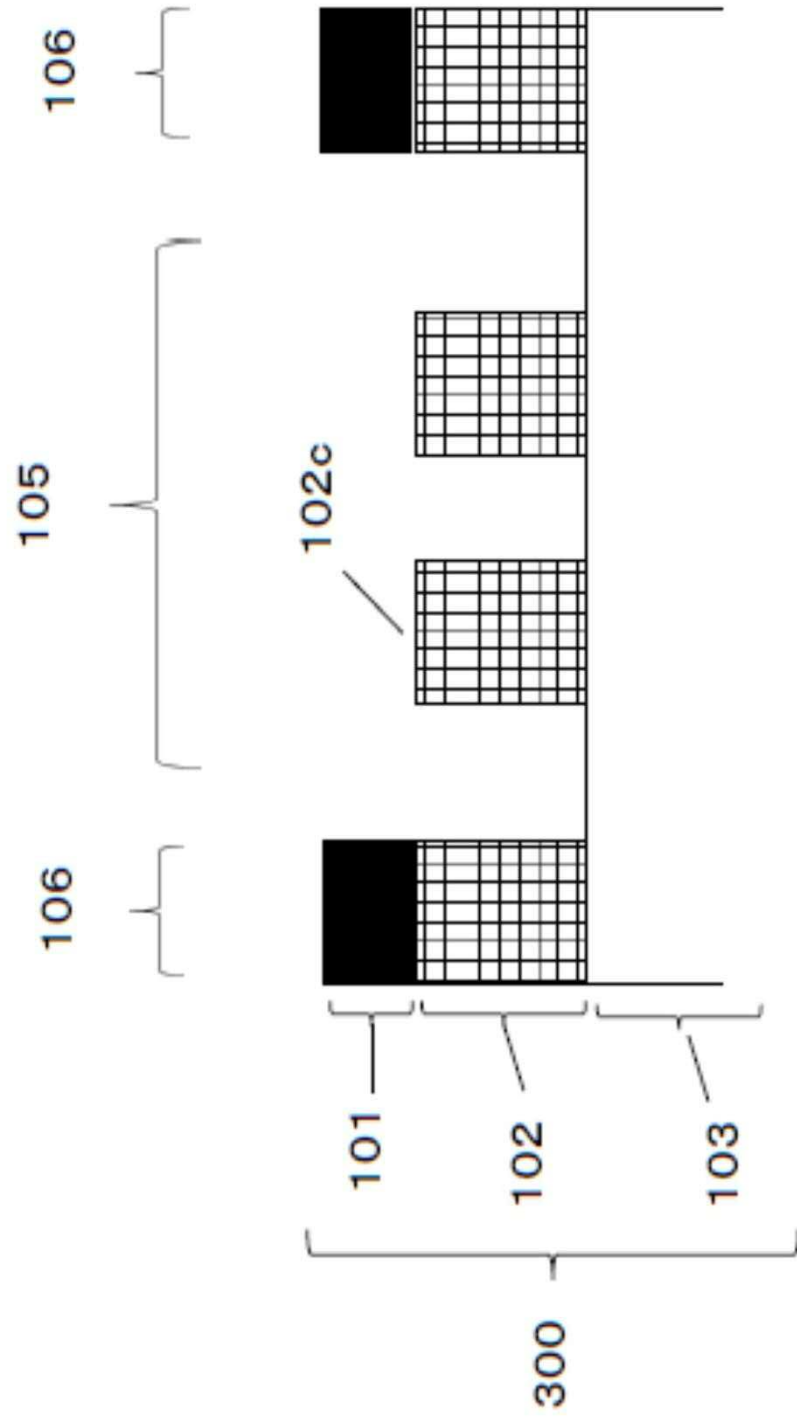


Fig. 5



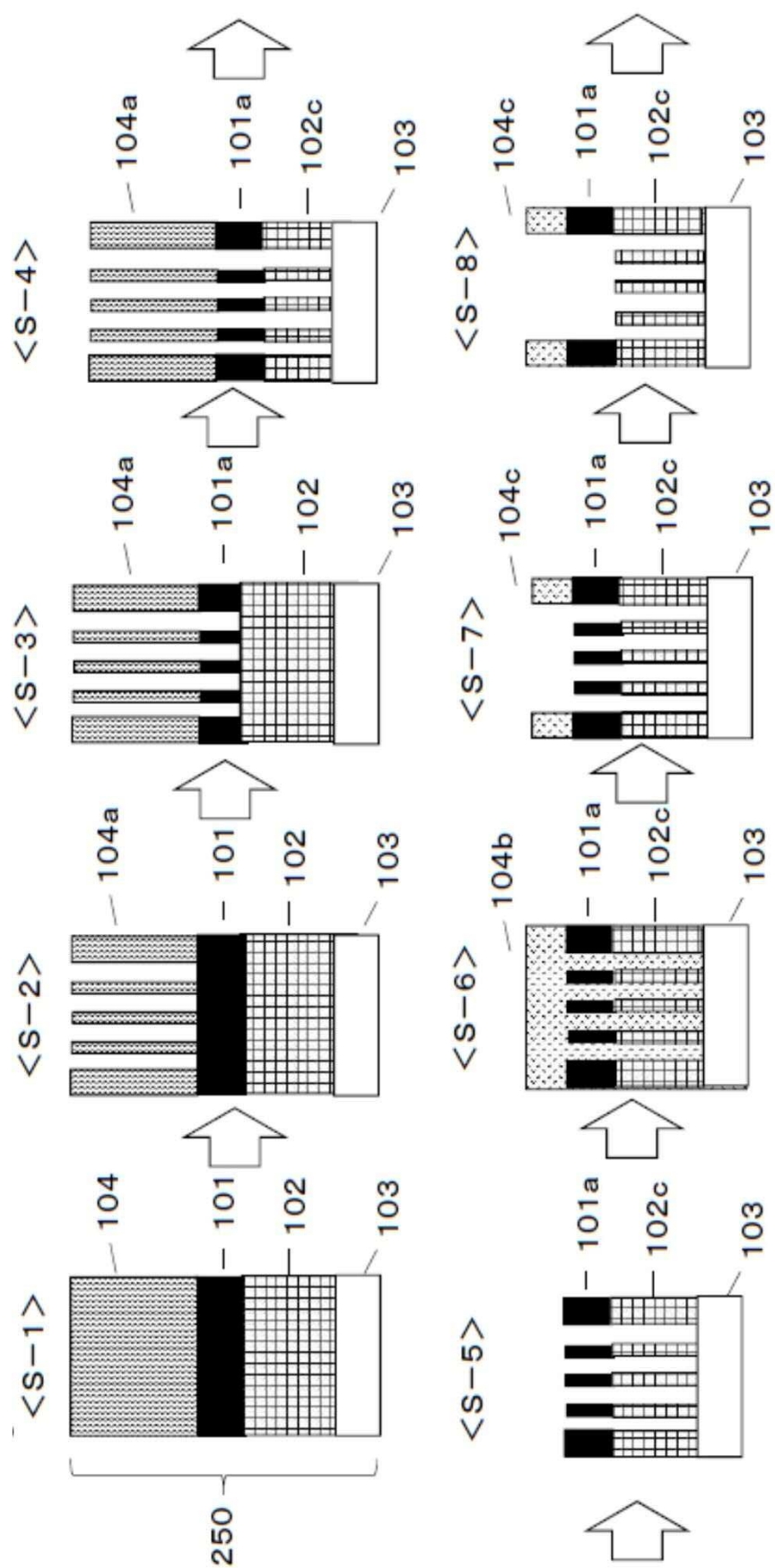
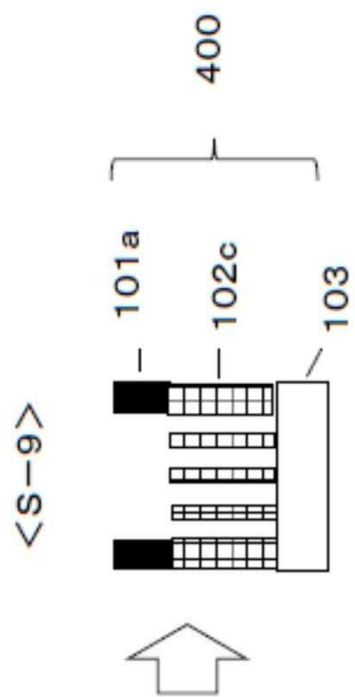


Fig. 6

Fig. 7



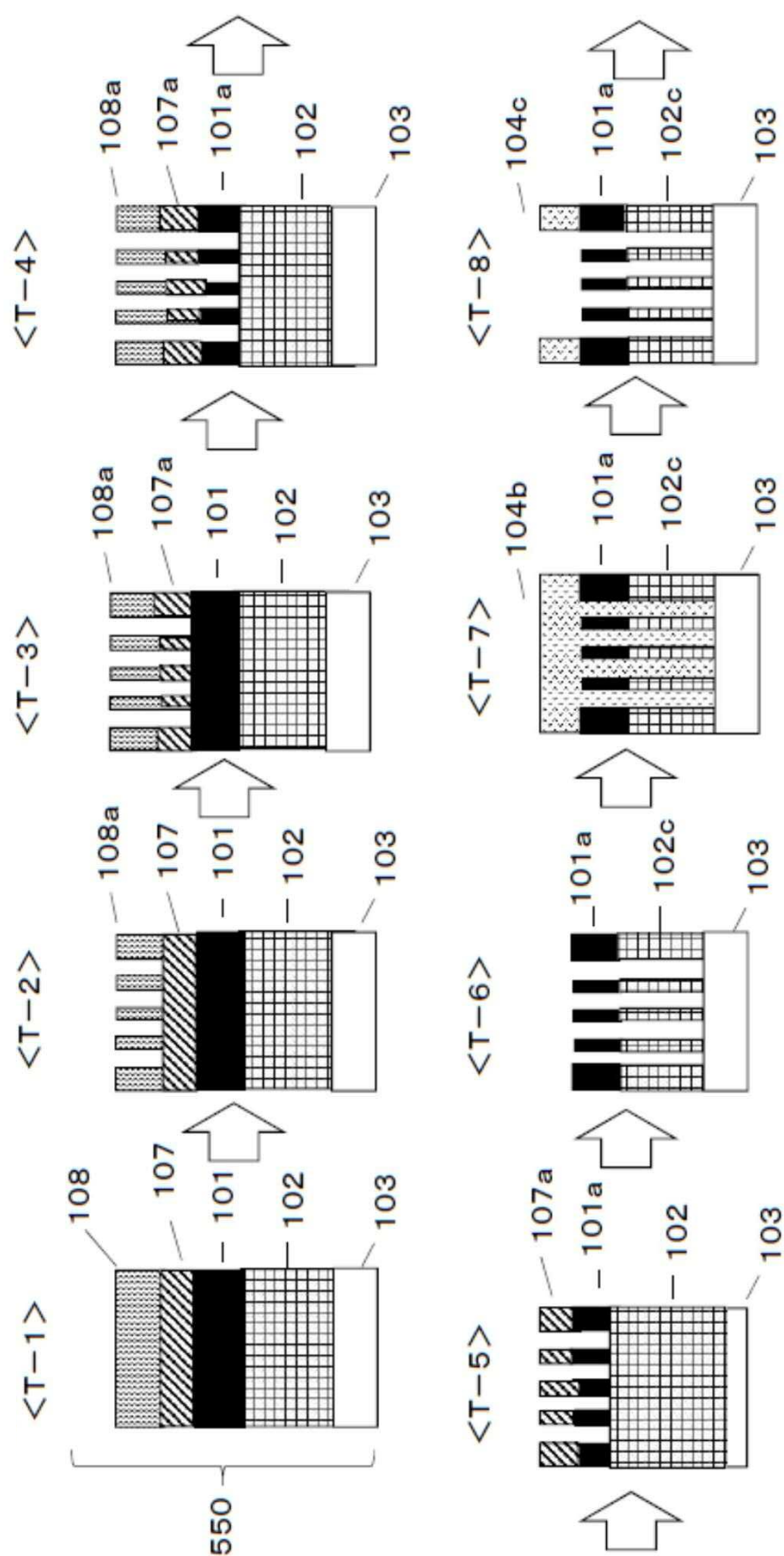


Fig. 8

Fig. 9

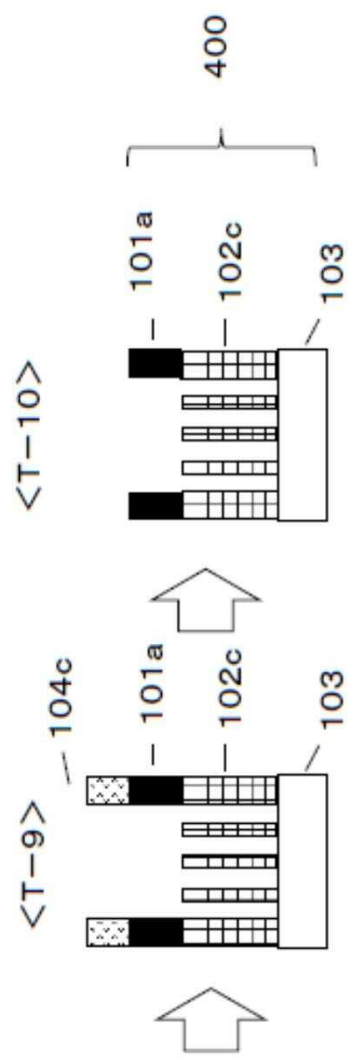
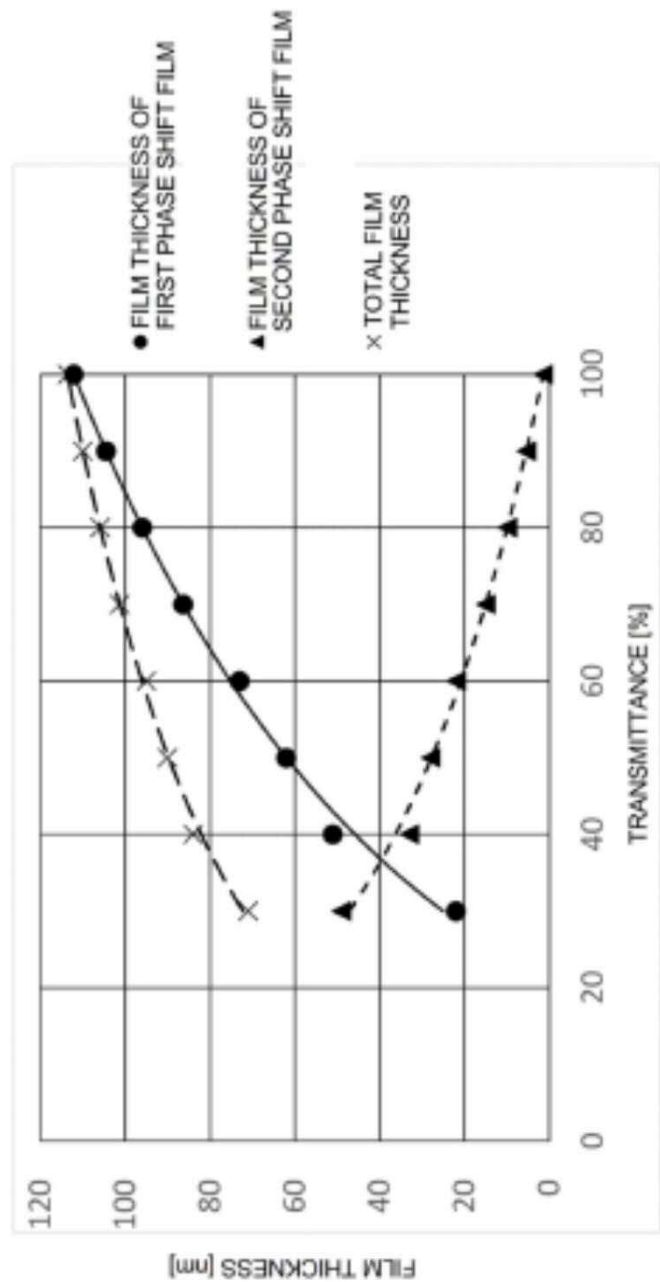


Fig. 10



TRANSMITTANCE [%]	30	40	50	60	70	80	90	100
FILM THICKNESS OF SECOND PHASE SHIFT FILM [nm]	22	51	62	73	86	96	104	112
FILM THICKNESS OF FIRST PHASE SHIFT FILM [nm]	49	33	28	22	15	10	5	1
TOTAL FILM THICKNESS	71	84	90	95	101	106	110	114

Fig. 11

NILS IS IMPROVED FROM COMPARATIVE EXAMPLE

		FILM THICKNESS OF FIRST PHASE SHIFT FILM [nm]												
		5	10	15	20	25	30	35	40	45	50	55	60	65
FILM THICKNESS OF SECOND PHASE SHIFT FILM [nm]	20	1.43	1.47	1.52	1.57	1.65	1.78	2.01	1.98	2.01	2.23	2.12	1.99	1.95
	30	1.47	1.52	1.61	1.65	1.78	1.98	2.10	2.09	2.19	2.07	2.03	1.92	1.71
	40	1.56	1.61	1.66	1.73	2.07	2.03	2.16	2.19	2.05	1.94	1.92	1.75	1.65
	50	1.67	1.70	1.73	1.83	2.10	2.11	2.03	1.98	1.94	1.84	1.78	1.71	1.60
	60	1.75	1.74	1.97	1.98	2.13	2.06	2.06	1.93	1.87	1.72	1.71	1.61	1.53
	70	1.77	1.90	2.09	2.01	2.01	2.01	1.91	1.87	1.67	1.57	1.63	1.52	1.47
	80	1.83	2.04	2.19	1.93	1.91	1.86	1.81	1.71	1.54	1.51	1.49	1.47	1.39

Fig. 12

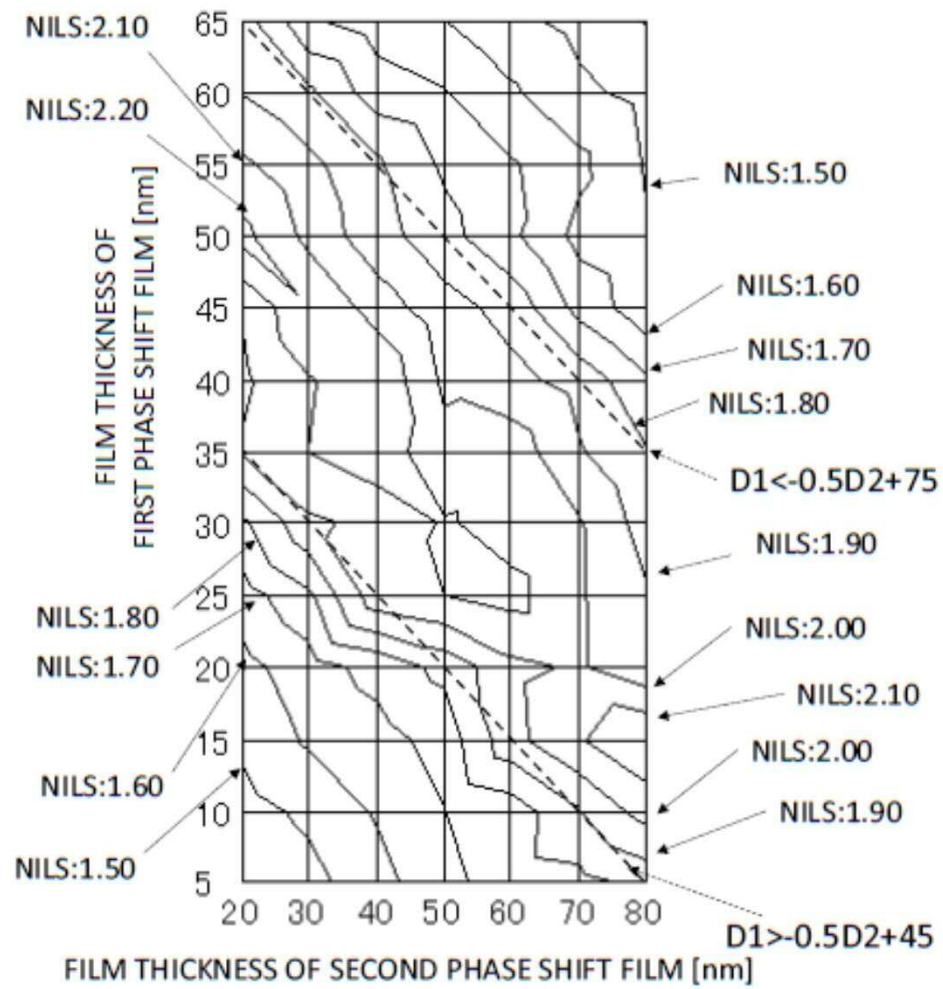


Fig. 13

NILS IS IMPROVED FROM COMPARATIVE EXAMPLE

		FILM THICKNESS OF FIRST PHASE SHIFT FILM [nm]													
		5	10	15	20	25	30	35	40	45	50	55	60	65	
FILM THICKNESS OF SECOND PHASE SHIFT FILM [nm]	20	1.35	1.39	1.45	1.50	1.60	1.73	1.97	1.93	1.97	2.17	2.06	1.93	1.88	
	30	1.39	1.44	1.56	1.58	1.72	1.94	2.05	2.05	2.13	2.01	1.99	1.87	1.63	
	40	1.49	1.52	1.61	1.66	2.01	1.97	2.10	2.15	1.90	1.86	1.87	1.69	1.59	
	50	1.59	1.64	1.67	1.81	2.04	2.06	1.96	1.95	1.87	1.80	1.72	1.65	1.54	
	60	1.68	1.69	1.89	1.91	2.09	2.00	2.00	1.88	1.80	1.71	1.65	1.55	1.46	
	70	1.68	1.82	2.01	1.96	1.95	1.95	1.86	1.81	1.63	1.51	1.56	1.45	1.42	
	80	1.80	1.97	2.10	1.87	1.85	1.80	1.80	1.64	1.49	1.45	1.42	1.39	1.31	

Fig. 14

