

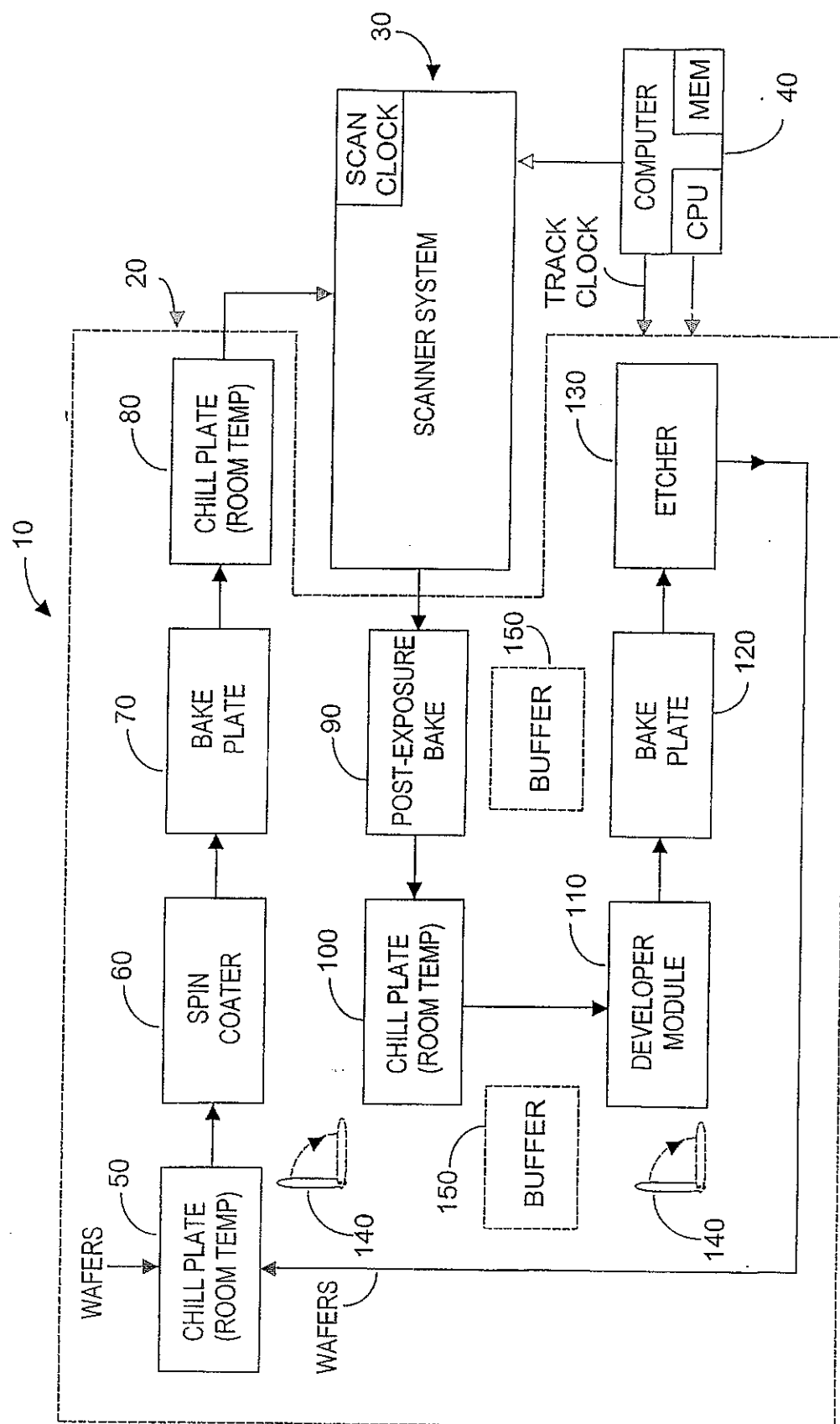


FIG. 1 (PRIOR ART)

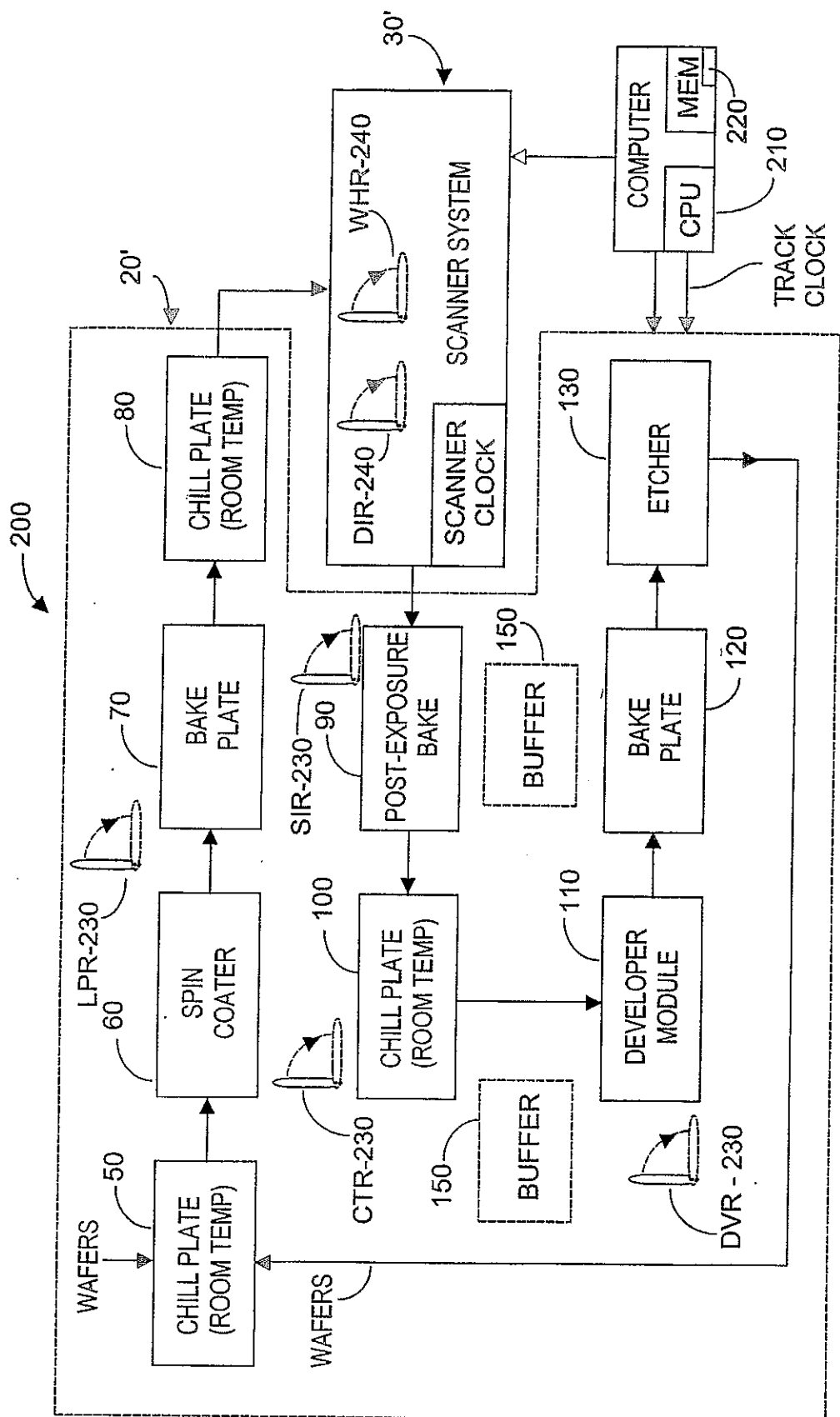
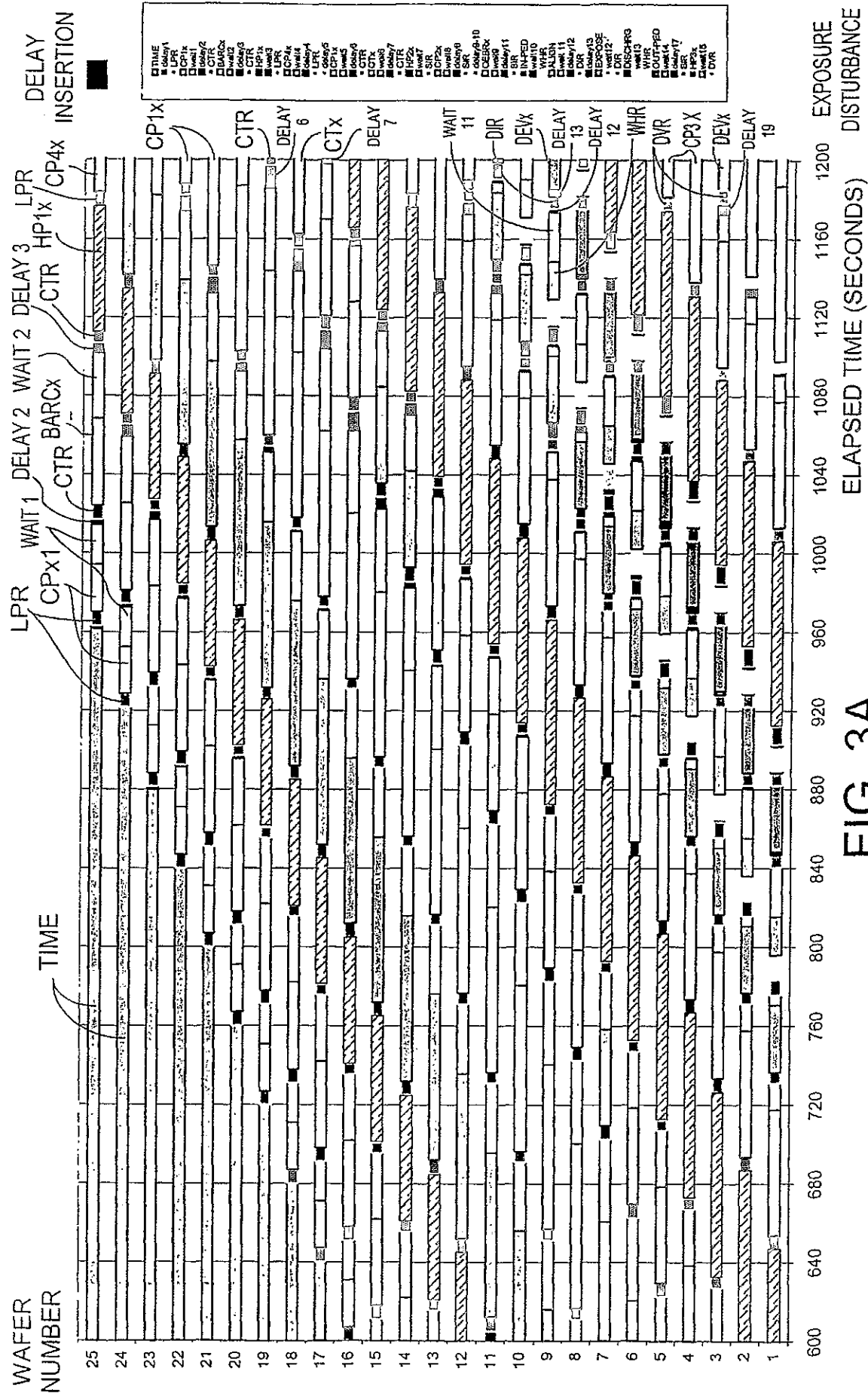


FIG. 2



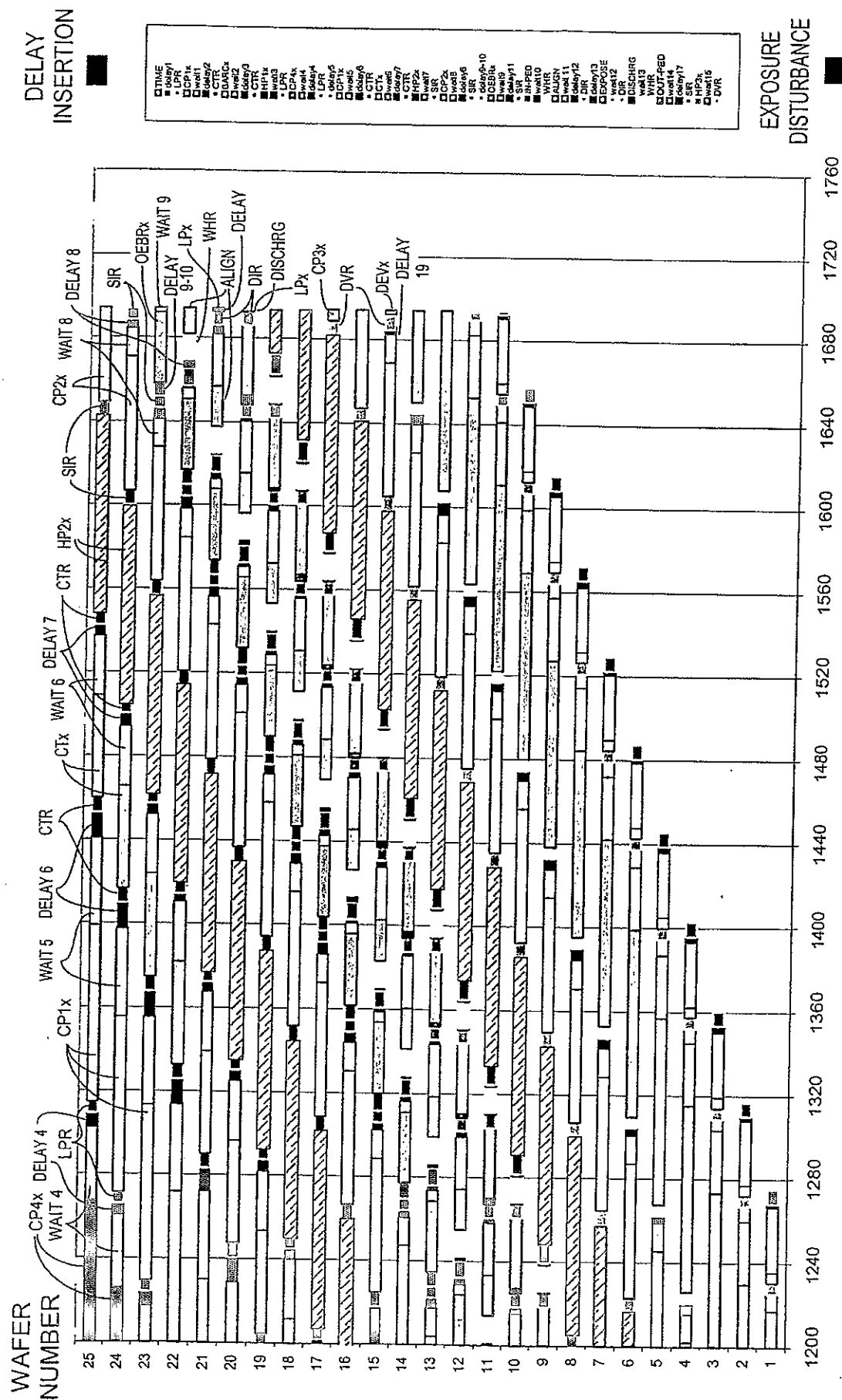


FIG. 3B

1	2	3	4	5	6	7	8	9	10	11	12	13
WAFER NO.	δ	EXPOSE TIME	DELAY 1	LPR	CP1x	WAIT 1	DELAY 2	CTR	BARCX	WAIT 2	DELAY 3	CTR
1	1.54	0.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
2	0.00	40.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
3	1.86	80.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
4	2.98	120.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
5	3.39	160.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
6	1.64	200.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
7	1.71	240.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
8	1.90	280.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
9	3.16	320.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
10	2.45	360.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
11	2.76	400.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
12	1.95	440.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
13	1.82	480.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
14	3.20	520.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
15	2.92	560.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
16	2.14	600.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
17	1.77	640.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
18	3.18	680.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
19	1.23	720.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
20	4.14	760.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	0.00	5.50
21	3.14	800.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	1.54	5.50
22	3.22	840.00	0.00	7.00	24.00	20.00	0.00	7.00	44.00	33.50	1.54	5.50
23	1.91	880.00	1.54	7.00	24.00	20.00	0.00	7.00	44.00	33.50	1.86	5.50
24	1.53	921.54	0.00	7.00	24.00	20.00	1.86	7.00	44.00	33.50	4.84	5.50
25	0.00	961.54	1.86	7.00	24.00	20.00	2.98	7.00	44.00	33.50	6.37	5.50
											5.03	5.50

FIG. 4A

[illegible]

FIG. 4B

(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
WAIT 6	DELAY 7	CTR	HP2x	WAIT 7	SIR	CP2x	WAIT 8	DELAY 8	SIR	DELAY 9-10	OEBRx	WAIT 9
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	0.00	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	0.00	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	0.00	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	0.00	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	1.54	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	1.54	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	0.00	5.50	3.40	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	1.54	5.50	4.84	34.00	5.00
28.50	0.00	5.50	94.00	0.00	7.00	64.00	13.50	1.54	5.50	8.23	34.00	5.00
28.50	1.54	5.50	94.00	0.00	7.00	64.00	13.50	1.86	5.50	8.01	34.00	5.00
28.50	1.54	5.50	94.00	0.00	7.00	64.00	13.50	4.84	5.50	6.74	34.00	5.00
28.50	1.86	5.50	94.00	0.00	7.00	64.00	13.50	6.37	5.50	5.25	34.00	5.00
28.50	4.84	5.50	94.00	0.00	7.00	64.00	13.50	5.03	5.50	6.77	34.00	5.00
28.50	6.37	5.50	94.00	0.00	7.00	64.00	13.50	3.35	5.50	7.51	34.00	5.00
28.50	5.03	5.50	94.00	0.00	7.00	64.00	13.50	3.61	5.50	8.37	34.00	5.00
28.50	3.35	5.50	94.00	0.00	7.00	64.00	13.50	5.06	5.50	7.16	34.00	5.00
28.50	3.61	5.50	94.00	0.00	7.00	64.00	13.50	5.61	5.50	6.54	34.00	5.00
28.50	5.06	5.50	94.00	0.00	7.00	64.00	13.50	5.21	5.50	6.97	34.00	5.00
28.50	5.61	5.50	94.00	0.00	7.00	64.00	13.50	4.72	5.50	7.94	34.00	5.00
28.50	5.21	5.50	94.00	0.00	7.00	64.00	13.50	3.77	5.50	8.26	34.00	5.00
28.50	4.72	5.50	94.00	0.00	7.00	64.00	13.50	5.02	5.50	6.83	34.00	5.00
28.50	3.77	5.50	94.00	0.00	7.00	64.00	13.50	6.11	5.50	7.10	34.00	5.00
28.50	5.02	5.50	94.00	0.00	7.00	64.00	13.50	5.06	5.50	6.19	34.00	1.94
28.50	6.11	5.50	94.00	0.00	7.00	64.00	13.50	3.91	5.50	0.36	0.00	0.00
28.50	5.06	5.50	94.00	0.00	7.00	45.12	0.00	0.00	0.00	0.00	0.00	0.00

FIG. 4C

40	41	42	43	44	45	46	47	48	49	50	51	52
DELAY 11	SIR	IN-PED	WAIT 10	WHR	ALIGN	WAIT 11	DELAY 12	DIR	DELAY 13	EXPSE	WAIT 12	DIR
0.00	8.00	0.00	0.00	12.50	19.30	25.00	0.00	6.50	1.54	33.50	0.00	6.50
0.00	8.00	0.00	0.00	12.50	19.30	25.00	1.54	6.50	0.00	33.50	0.00	6.50
0.00	8.00	1.54	0.00	12.50	19.30	25.00	0.00	6.50	1.86	33.50	0.00	6.50
1.54	8.00	0.00	0.00	12.50	19.30	25.00	1.86	6.50	2.98	33.50	0.00	6.50
0.00	8.00	1.86	0.00	12.50	19.30	25.00	2.98	6.50	3.39	33.50	0.00	6.50
1.86	8.00	2.98	0.00	12.50	19.30	25.00	3.39	6.50	1.64	33.50	0.00	6.50
2.98	8.00	3.39	0.00	12.50	19.30	25.00	1.64	6.50	1.71	33.50	0.00	6.50
3.39	8.00	1.64	0.00	12.50	19.30	25.00	1.71	6.50	1.90	33.50	0.00	6.50
1.64	8.00	1.71	0.00	12.50	19.30	25.00	1.90	6.50	3.16	33.50	0.00	6.50
1.71	8.00	1.90	0.00	12.50	19.30	25.00	3.16	6.50	2.45	33.50	0.00	6.50
1.90	8.00	3.16	0.00	12.50	19.30	25.00	2.45	6.50	2.76	33.50	0.00	6.50
3.16	8.00	2.45	0.00	12.50	19.30	25.00	2.76	6.50	1.95	33.50	0.00	6.50
2.45	8.00	2.76	0.00	12.50	19.30	25.00	1.95	6.50	1.82	33.50	0.00	6.50
2.76	8.00	1.95	0.00	12.50	19.30	25.00	1.82	6.50	3.20	33.50	0.00	6.50
1.95	8.00	1.82	0.00	12.50	19.30	25.00	3.20	6.50	2.92	33.50	0.00	6.50
1.82	8.00	3.20	0.00	12.50	19.30	25.00	2.92	6.50	2.14	33.50	0.00	6.50
3.20	8.00	2.92	0.00	12.50	19.30	25.00	2.14	6.50	1.77	33.50	0.00	6.50
2.92	8.00	2.14	0.00	12.50	19.30	25.00	1.77	6.50	3.18	33.50	0.00	6.50
2.14	8.00	1.77	0.00	12.50	19.30	25.00	3.18	6.50	1.23	33.50	0.00	6.50
1.77	8.00	3.18	0.00	12.50	19.30	25.00	1.23	6.50	4.14	33.50	0.00	6.50
3.18	8.00	1.23	0.00	12.50	19.30	25.00	4.14	6.50	1.50	0.00	0.00	0.00
1.23	8.00	4.14	0.00	12.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FIG. 4D

(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)
DISCHRG	WAIT 13	WHR	OUT-PED	WAIT 14	DELAY 17	SIR	HP3x	WAIT 15	DVR	CP3x	WAIT 16	DELAY 19
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	1.86
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	4.84
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	6.37
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.03
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	3.35
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	3.61
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.06
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.61
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.21
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	4.72
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	3.77
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.02
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	6.11
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	5.06
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	64.00	13.50	3.91
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	46.92	0.00	0.00
1.00	0.00	12.40	1.00	0.00	0.00	9.50	94.00	0.00	7.00	5.16	0.00	0.00
1.00	0.00	12.40	1.00	0.00	0.00	9.50	62.97	0.00	0.00	0.00	0.00	0.00
1.00	0.00	12.40	1.00	0.00	0.00	9.50	21.74	0.00	0.00	0.00	0.00	0.00
1.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FIG. 4E

